

IDOT 178-008 WO#036A (H&H)
Monee-Manhattan Road (Brynn Drive to Center Road)
Manhattan, Will County
PSI Report Vol. 3 of 3
Appendix D LPC-663 Documentation

APPENDIX D

LPC-663 CCDD DOCUMENTS



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: IDOT 178008-036A Monee-Manhattan Rd - 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: Manhattan State: IL Zip Code: 60442

County: Will Township: _____

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

Latitude: 41.42501 Longitude: - 87.91282

(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.): 3,900

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 4-1.12 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 #20-0484, #20-0509, #20-0536, #20-0561, #20-0602, #20-0635, and #20-0676. 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.

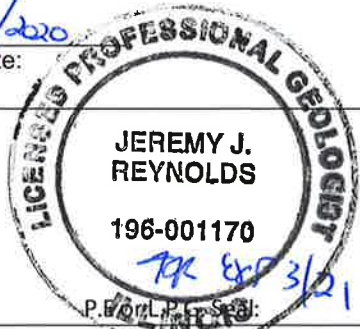
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

4/23/2020
Date:

JEREMY J. REYNOLDS
196-001170
JK 4/23/21
P.E. or L.P.E. No.:

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):

3496-1 (101 Julianne Dr, 100 block of Brett Dr, 101-103 Brett Dr, 105-109 Brett Ct)
3496-2 (14700-14800 blocks of W. Monee-Manhattan Rd)
3496-3 (14400-14700 blocks of W. Monee-Manhattan Rd)
3496-4 (14646 W. Monee-Manhattan Rd)
3496-5 (14400-14600 blocks of W. Monee-Manhattan Rd)
3496-6 (14445 W. Monee-Manhattan Rd)
3496-7 (14435 W. Monee-Manhattan Rd)
3496-10 (14350 W. Monee-Manhattan Rd)
3496-11 (13500-14300 blocks of W. Monee-Manhattan Rd)
3496-13 (14250 W. Monee-Manhattan Rd)
3496-14 (14210 W. Monee-Manhattan Rd)
3496-15 (13900-14100 blocks of W. Monee-Manhattan Rd)
3496-18 (13400-13900 blocks of W. Monee-Manhattan Rd)
3496-20 (13561 W. Monee-Manhattan Rd)
3496-21 (13300-13500 blocks of W. Monee-Manhattan Rd)
3496-22 (13400-13500 blocks of W. Monee-Manhattan Rd)
3496-24 (13200-13300 blocks of W. Monee-Manhattan Rd)
3496-25 (13100-13300 blocks of W. Monee-Manhattan Rd)
3496-26 (13339 W. Monee-Manhattan Rd)
3496-27 (13215 W. Monee-Manhattan Rd)
3496-28 (13150 W. Monee-Manhattan Rd)
3496-29 (12800-13100 blocks of W. Monee-Manhattan Rd)
3496-30 (12800-13100 blocks of W. Monee-Manhattan Rd)
3496-32 (12600 W. Monee-Manhattan Rd)
3496-33 (12600-12700 W. Monee-Manhattan Rd)
3496-34 (12623 blocks of W. Monee-Manhattan Rd)
3496-35 (12400-12600 blocks of W. Monee-Manhattan Rd)
3496-36 (12460 W. Monee-Manhattan Rd)
3496-38 (12000-12300 blocks of W. Monee-Manhattan Rd)
3496-39 (12000-12300 blocks of W. Monee-Manhattan Rd)
3496-40 (12000 W. Monee-Manhattan Rd)
3496-41 (11500-11900 blocks of W. Monee-Manhattan Rd)
3496-42 (11953 W. Monee-Manhattan Rd)
3496-43 (11500-11900 blocks of W. Monee-Manhattan Rd)
3496-45 (11400 block of W. Monee-Manhattan Rd)
3496-48 (11303 W. Monee-Manhattan Rd)
3496-49 (11200 block of W. Monee-Manhattan Rd)
3496-51 (11136 W. Monee-Manhattan Rd)
3496-52 (25515 S. Lagrange Rd)
3496-53 (10800-11100 blocks of W. Monee-Manhattan Rd)
3496-54 (10800-11100 blocks of W. Monee-Manhattan Rd)
3496-55 (11013 W. Monee-Manhattan Rd)
3496-56 (10929 W. Monee-Manhattan Rd)
3496-58 (10808 W. Monee-Manhattan Rd)
3496-59 (10745 of W. Monee-Manhattan Rd)
3496-60 (10400-10700 blocks of W. Monee-Manhattan Rd)
3496-61 (10600-10700 blocks of W. Monee-Manhattan Rd)
3496-63 (10500-10600 blocks of W. Monee-Manhattan Rd)
3496-64 (10453 W. Monee-Manhattan Rd)
3496-65 (10400 block of W. Monee-Manhattan Rd)
3496-66 (25522 S. 104th Ave)
3496-67 (25459 S. 104th Ave)
3496-68 (25515 S. 104th Ave)
3496-69 (10324 W. Monee-Manhattan Rd)
3496-70 (10317 W. Monee-Manhattan Rd)
3496-71 (10254 W. Monee-Manhattan Rd)
3496-72 (10249 W. Monee-Manhattan Rd)
3496-74 (10229 W. Monee-Manhattan Rd)
3496-75 (9700-10200 blocks of W. Monee-Manhattan Rd)
3496-76 (9800-10100 blocks of W. Monee-Manhattan Rd)
3496-77 (9600-9800 blocks of W. Monee-Manhattan Rd)
3496-78 (9716 W. Monee-Manhattan Rd)
3496-79 (9600-9700 blocks of W. Monee-Manhattan Rd)

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:

3496-1-01 (Monee-Manhattan Rd. Sta. 520+50)
3496-1-02 (Monee-Manhattan Rd. Sta. 523+50)
3496-2-02 (Monee-Manhattan Rd. Sta. 523+50)
3496-2-04 (Monee-Manhattan Rd. Sta. 529+50)
3496-Dup-09 (Monee-Manhattan Rd. Sta. 529+50)
3496-2-05 (Monee-Manhattan Rd. Sta. 532+50)
3496-3-02 (Monee-Manhattan Rd. Sta. 529+50)
3496-3-03 (Monee-Manhattan Rd. Sta. 532+50)
3496-3-05 (Monee-Manhattan Rd. Sta. 538+50)
3496-3-06 (Monee-Manhattan Rd. Sta. 541+50)
3496-4-01 (Monee-Manhattan Rd. Sta. 534+00)
3496-5-03 (Monee-Manhattan Rd. Sta. 544+00)
3496-6-01 (Monee-Manhattan Rd. Sta. 548+00)
3496-7-02 (Monee-Manhattan Rd. Sta. 552+00)
3496-Dup-01 (Monee-Manhattan Rd. Sta. 552+00)
3496-10-01 (Monee-Manhattan Rd. Sta. 553+50)
3496-Dup-07 (Monee-Manhattan Rd. Sta. 553+50)
3496-11-01 (Monee-Manhattan Rd. Sta. 553+50)
3496-Dup-02 (Monee-Manhattan Rd. Sta. 553+50)
3496-11-02 (Monee-Manhattan Rd. Sta. 556+50)
3496-11-03 (Monee-Manhattan Rd. Sta. 559+50)
3496-11-04 (Monee-Manhattan Rd. Sta. 562+50)
3496-11-06 (Monee-Manhattan Rd. Sta. 568+50)
3496-11-08 (Monee-Manhattan Rd. Sta. 574+50)
3496-11-10 (Monee-Manhattan Rd. Sta. 580+50)
3496-11-11 (Monee-Manhattan Rd. Sta. 583+50)
3496-11-13 (Monee-Manhattan Rd. Sta. 589+50)
3496-13-02 (Monee-Manhattan Rd. Sta. 562+00)
3496-14-01 (Monee-Manhattan Rd. Sta. 564+00)
3496-14-02 (Monee-Manhattan Rd. Sta. 565+50)
3496-15-01 (Monee-Manhattan Rd. Sta. 567+50)
3496-15-02 (Monee-Manhattan Rd. Sta. 570+50)
3496-15-03 (Monee-Manhattan Rd. Sta. 573+50)
3496-15-04 (Monee-Manhattan Rd. Sta. 576+50)
3496-15-05 (Monee-Manhattan Rd. Sta. 579+50)
3496-18-02 (Monee-Manhattan Rd. Sta. 590+00)
3496-18-03 (Monee-Manhattan Rd. Sta. 593+00)
3496-18-04 (Monee-Manhattan Rd. Sta. 596+00)
3496-18-05 (Monee-Manhattan Rd. Sta. 599+00)
3496-18-06 (Monee-Manhattan Rd. Sta. 602+00)
3496-Dup-06 (Monee-Manhattan Rd. Sta. 602+00)
3496-18-07 (Monee-Manhattan Rd. Sta. 605+00)
3496-20-01 (Monee-Manhattan Rd. Sta. 594+50)
3496-20-02 (Monee-Manhattan Rd. Sta. 597+50)
3496-21-01 (Monee-Manhattan Rd. Sta. 599+50)
3496-21-02 (Monee-Manhattan Rd. Sta. 602+50)
3496-22-02 (Monee-Manhattan Rd. Sta. 618+00)
3496-22-03 (Monee-Manhattan Rd. Sta. 621+00)
3496-24-02 (Monee-Manhattan Rd. Sta. 631+00)
3496-25-03 (Monee-Manhattan Rd. Sta. 629+50)
3496-25-05 (Monee-Manhattan Rd. Sta. 635+50)
3496-26-02 (Monee-Manhattan Rd. Sta. 626+00)
3496-26-04 (Monee-Manhattan Rd. Sta. 628+00)
3496-26-05 (Monee-Manhattan Rd. Sta. 629+00)
3496-27-01 (Monee-Manhattan Rd. Sta. 635+00)
3496-Dup-05 (Monee-Manhattan Rd. Sta. 635+00)
3496-28-01 (Monee-Manhattan Rd. Sta. 637+50)
3496-28-02 (Monee-Manhattan Rd. Sta. 639+50)
3496-28-04 (Monee-Manhattan Rd. Sta. 643+50)
3496-29-01 (Monee-Manhattan Rd. Sta. 638+00)
3496-29-03 (Monee-Manhattan Rd. Sta. 644+00)
3496-29-04 (Monee-Manhattan Rd. Sta. 647+00)
3496-29-06 (Monee-Manhattan Rd. Sta. 653+00)

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3496-29-08 (Monee-Manhattan Rd. Sta. 659+00)
3496-29-09 (Monee-Manhattan Rd. Sta. 662+00)
3496-30-02 (Monee-Manhattan Rd. Sta. 648+00)
3496-30-03 (Monee-Manhattan Rd. Sta. 651+00)
3496-30-04 (Monee-Manhattan Rd. Sta. 654+00)
3496-30-06 (Monee-Manhattan Rd. Sta. 660+00)
3496-32-02 (Monee-Manhattan Rd. Sta. 666+50)
3496-32-03 (Monee-Manhattan Rd. Sta. 668+50)
3496-32-06 (Monee-Manhattan Rd. Sta. 674+50)
3496-33-02 (Monee-Manhattan Rd. Sta. 670+00)
3496-33-03 (Monee-Manhattan Rd. Sta. 673+00)
3496-34-01 (Monee-Manhattan Rd. Sta. 675+50)
3496-35-02 (Monee-Manhattan Rd. Sta. 681+00)
3496-35-03 (Monee-Manhattan Rd. Sta. 684+00)
3496-Dup-10 (Monee-Manhattan Rd. Sta. 684+00)
3496-35-04 (Monee-Manhattan Rd. Sta. 687+00)
3496-36-01 (Monee-Manhattan Rd. Sta. 684+00)
3496-38-06 (Monee-Manhattan Rd. Sta. 707+00)
3496-39-01 (Monee-Manhattan Rd. Sta. 693+00)
3496-39-02 (Monee-Manhattan Rd. Sta. 696+00)
3496-Dup-11 (Monee-Manhattan Rd. Sta. 696+00)
3496-39-03 (Monee-Manhattan Rd. Sta. 699+00)
3496-39-05 (Monee-Manhattan Rd. Sta. 705+00)
3496-40-01 (Monee-Manhattan Rd. Sta. 712+50)
3496-40-02 (Monee-Manhattan Rd. Sta. 715+50)
3496-41-01 (Monee-Manhattan Rd. Sta. 681+00)
3496-41-02 (Monee-Manhattan Rd. Sta. 684+00)
3496-41-04 (Monee-Manhattan Rd. Sta. 684+00)
3496-41-06 (Monee-Manhattan Rd. Sta. 684+00)
3496-41-07 (Monee-Manhattan Rd. Sta. 707+00)
3496-41-08 (Monee-Manhattan Rd. Sta. 693+00)
3496-41-09 (Monee-Manhattan Rd. Sta. 696+00)
3496-42-01 (Monee-Manhattan Rd. Sta. 696+00)
3496-43-02 (Monee-Manhattan Rd. Sta. 699+00)
3496-43-04 (Monee-Manhattan Rd. Sta. 705+00)
3496-43-06 (Monee-Manhattan Rd. Sta. 712+50)
3496-43-08 (Monee-Manhattan Rd. Sta. 715+50)
3496-45-01 (Monee-Manhattan Rd. Sta. 687+00)
3496-Dup-13 (Monee-Manhattan Rd. Sta. 687+00)
3496-48-01 (Monee-Manhattan Rd. Sta. 762+00)
3496-48-03 (Monee-Manhattan Rd. Sta. 765+50)
3496-48-04 (Monee-Manhattan Rd. Sta. 766+50)
3496-49-01 (Monee-Manhattan Rd. Sta. 768+50)
3496-51-01 (Monee-Manhattan Rd. Sta. 772+00)
3496-51-02 (Monee-Manhattan Rd. Sta. 773+00)
3496-Dup-17 (Monee-Manhattan Rd. Sta. 773+00)
3496-51-03 (Monee-Manhattan Rd. Sta. 774+00)
3496-51-04 (Monee-Manhattan Rd. Sta. 775+00)
3496-52-01 (Monee-Manhattan Rd. Sta. 772+00)
3496-52-02 (Monee-Manhattan Rd. Sta. 773+75)
3496-53-02 (Monee-Manhattan Rd. Sta. 778+00)
3496-53-03 (Monee-Manhattan Rd. Sta. 781+00)
3496-53-04 (Monee-Manhattan Rd. Sta. 793+75)
3496-54-01 (Monee-Manhattan Rd. Sta. 777+00)
3496-54-03 (Monee-Manhattan Rd. Sta. 783+00)
3496-54-04 (Monee-Manhattan Rd. Sta. 786+00)
3496-54-05 (Monee-Manhattan Rd. Sta. 789+00)
3496-Dup-26 (Monee-Manhattan Rd. Sta. 789+00)
3496-54-06 (Monee-Manhattan Rd. Sta. 792+00)
3496-55-01 (Monee-Manhattan Rd. Sta. 783+00)
3496-56-01 (Monee-Manhattan Rd. Sta. 785+50)
3496-Dup-18 (Monee-Manhattan Rd. Sta. 785+50)
3496-56-03 (Monee-Manhattan Rd. Sta. 788+50)
3496-58-01 (Monee-Manhattan Rd. Sta. 794+00)
3496-59-01 (Monee-Manhattan Rd. Sta. 798+25)
3496-60-02 (Monee-Manhattan Rd. Sta. 801+00)
3496-60-04 (Monee-Manhattan Rd. Sta. 807+00)
3496-60-06 (Monee-Manhattan Rd. Sta. 813+00)

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3496-60-07 (Monee-Manhattan Rd. Sta. 816+00)
3496-61-01 (Monee-Manhattan Rd. Sta. 802+50)
3496-61-02 (Monee-Manhattan Rd. Sta. 805+50)
3496-63-02 (Monee-Manhattan Rd. Sta. 813+00)
3496-63-03 (Monee-Manhattan Rd. Sta. 816+00)
3496-64-01 (Monee-Manhattan Rd. Sta. 817+00)
3496-64-02 (Monee-Manhattan Rd. Sta. 818+50)
3496-Dup-20 (Monee-Manhattan Rd. Sta. 818+50)
3496-65-01 (Monee-Manhattan Rd. Sta. 820+00)
3496-66-01 (Monee-Manhattan Rd. Sta. 821+00)
3496-66-02 (Monee-Manhattan Rd. Sta. 822+50)
3496-Dup-21 (Monee-Manhattan Rd. Sta. 822+50)
3496-67-01 (Monee-Manhattan Rd. Sta. 824+50)
3496-67-02 (Monee-Manhattan Rd. Sta. 826+00)
3496-68-02 (Monee-Manhattan Rd. Sta. 825+50)
3496-68-03 (Monee-Manhattan Rd. Sta. 827+00)
3496-69-01 (Monee-Manhattan Rd. Sta. 828+00)
3496-69-02 (Monee-Manhattan Rd. Sta. 829+50)
3496-70-02 (Monee-Manhattan Rd. Sta. 829+50)
3496-71-01 (Monee-Manhattan Rd. Sta. 831+50)
3496-72-01 (Monee-Manhattan Rd. Sta. 831+00)
3496-74-01 (Monee-Manhattan Rd. Sta. 834+50)
3496-Dup-22 (Monee-Manhattan Rd. Sta. 834+50)
3496-75-01 (Monee-Manhattan Rd. Sta. 837+00)
3496-Dup-25 (Monee-Manhattan Rd. Sta. 837+00)
3496-75-02 (Monee-Manhattan Rd. Sta. 840+00)
3496-75-03 (Monee-Manhattan Rd. Sta. 843+00)
3496-75-06 (Monee-Manhattan Rd. Sta. 852+00)
3496-75-08 (Monee-Manhattan Rd. Sta. 858+00)
3496-76-01 (Monee-Manhattan Rd. Sta. 838+00)
3496-76-07 (Monee-Manhattan Rd. Sta. 856+00)
3496-77-01 (Monee-Manhattan Rd. Sta. 865+00)
3496-77-02 (Monee-Manhattan Rd. Sta. 868+00)
3496-77-03 (Monee-Manhattan Rd. Sta. 871+00)
3496-78-01 (Monee-Manhattan Rd. Sta. 868+50)
3496-79-01 (Monee-Manhattan Rd. Sta. 871+00)

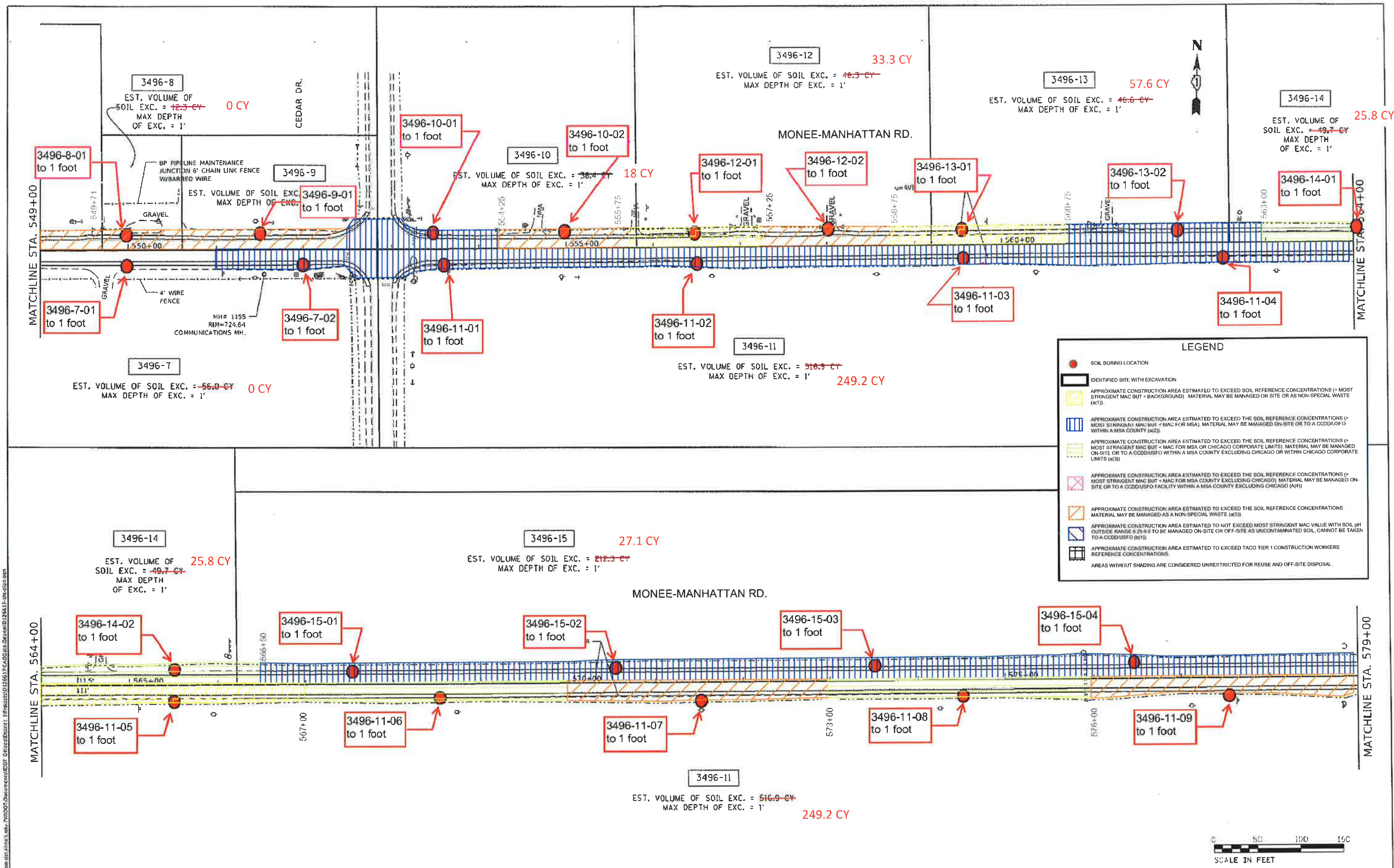


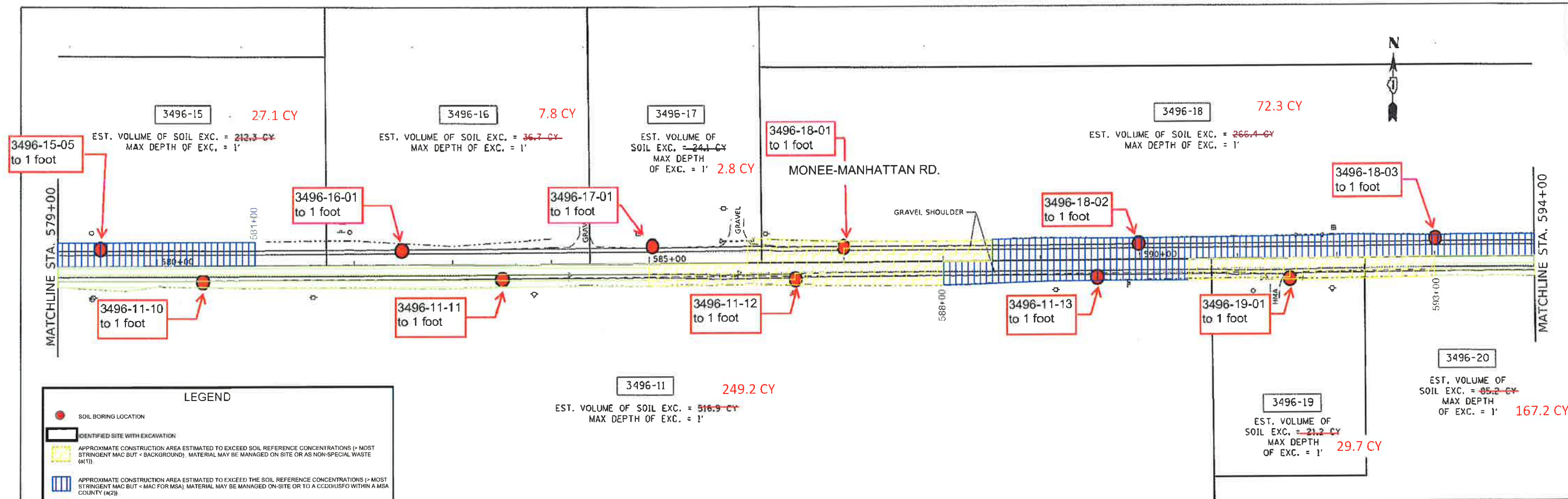
Figure 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USFR NAME = 1413101	DESIGNED =	REVISED =
PLOT SCALE = 100,000 / 1 in.	DRAWN =	REVISED =
PLOT DATE = 4/13/2017	CHECKED =	REVISED =
	DATE =	REVISED =

F.A.P. RTE. 531	SECTION 140 & 40x11	COUNTY WILL	TOTAL SHEETS 12	SHEET NO. 2
CONTRACT NO. 62F22				
ILLINOIS FED. AID PROJECT				

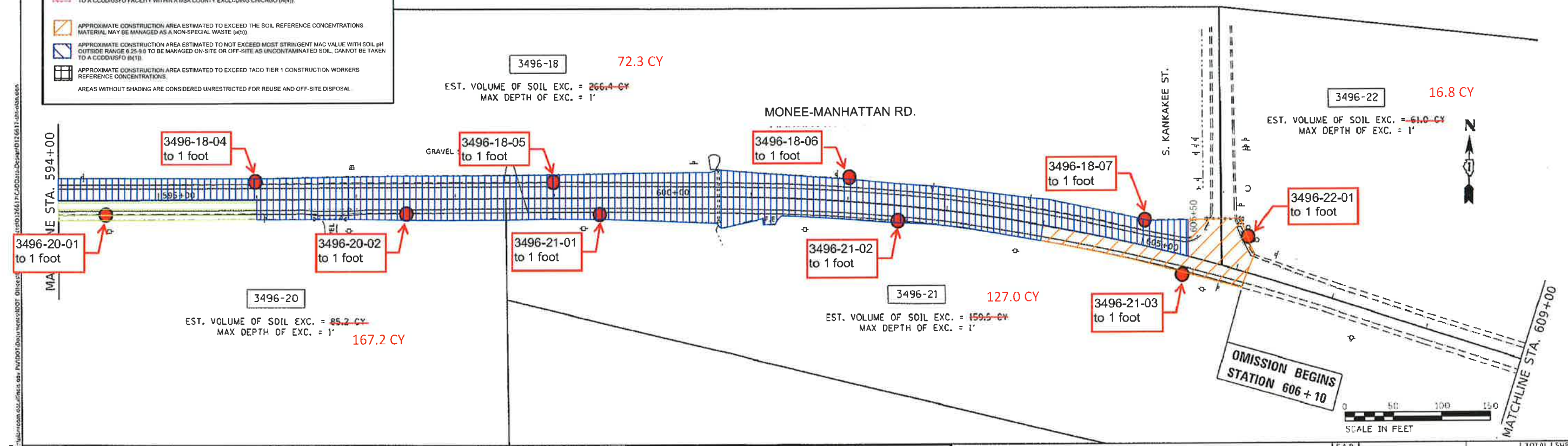
ACPDF: Default
 FILE NAME: C:\Users\johndoe\OneDrive\Documents\DOT - Direct\Source - I:\Projects\121667-CAD\Site\Drawings\121667-2017.dwg
 PLOT DATE: 4/13/2017



LEGEND

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

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



USFR 11A1F = 1:1 (1/11)	DESIGNED -	REVISED -	Figure 4-1.3 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO#36A	PESA RESPONSE EXHIBIT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1/10,000 @ 1/4"	DRAWN -	REVISED -		MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.		531	(40 & 40XII)	WILL	12	3
PLOT DATE = 9/13/2011	CHECKED -	REVISED -		SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62F22				
	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

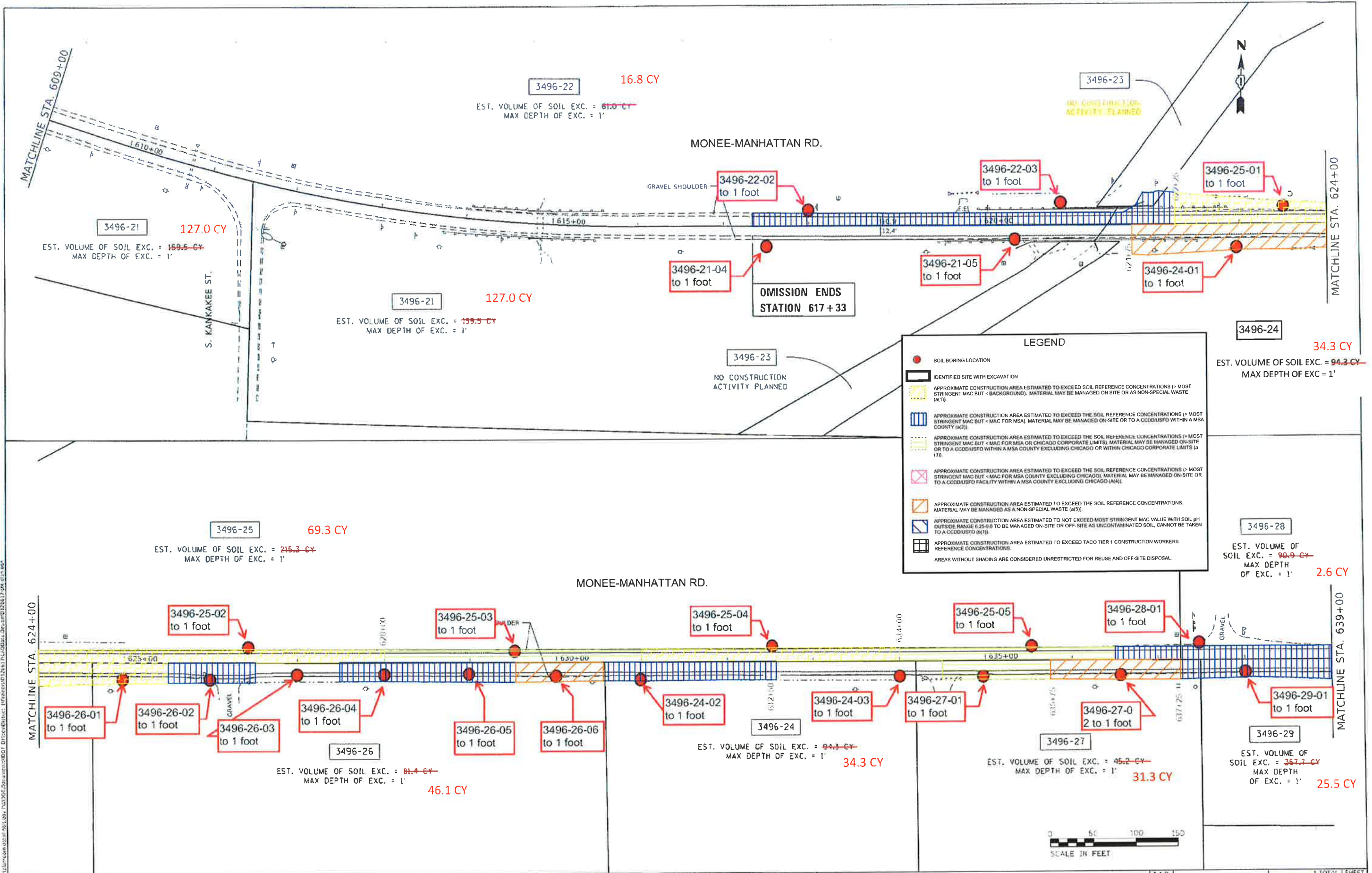


Figure 4-1.4 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USER NAME = jmm	DESIGNED =	REVISED =
PLOT SCALE = 1/8" = 100'	DRAWN =	REVISED =
PLOT DATE = 9/14/2013	CHECKED =	REVISED =
	DATE =	REVISED =

F.A.P. R.T.E. = 531	SECTION = (40 & 10X)H	COUNTY = WILL	TOTAL SHEETS = 12	SHEET NO. = 4
CONTRACT NO. 62F22				
ILLINOIS FED. RD. PROJECT				

SHEET OF SHEETS STA. TO STA.

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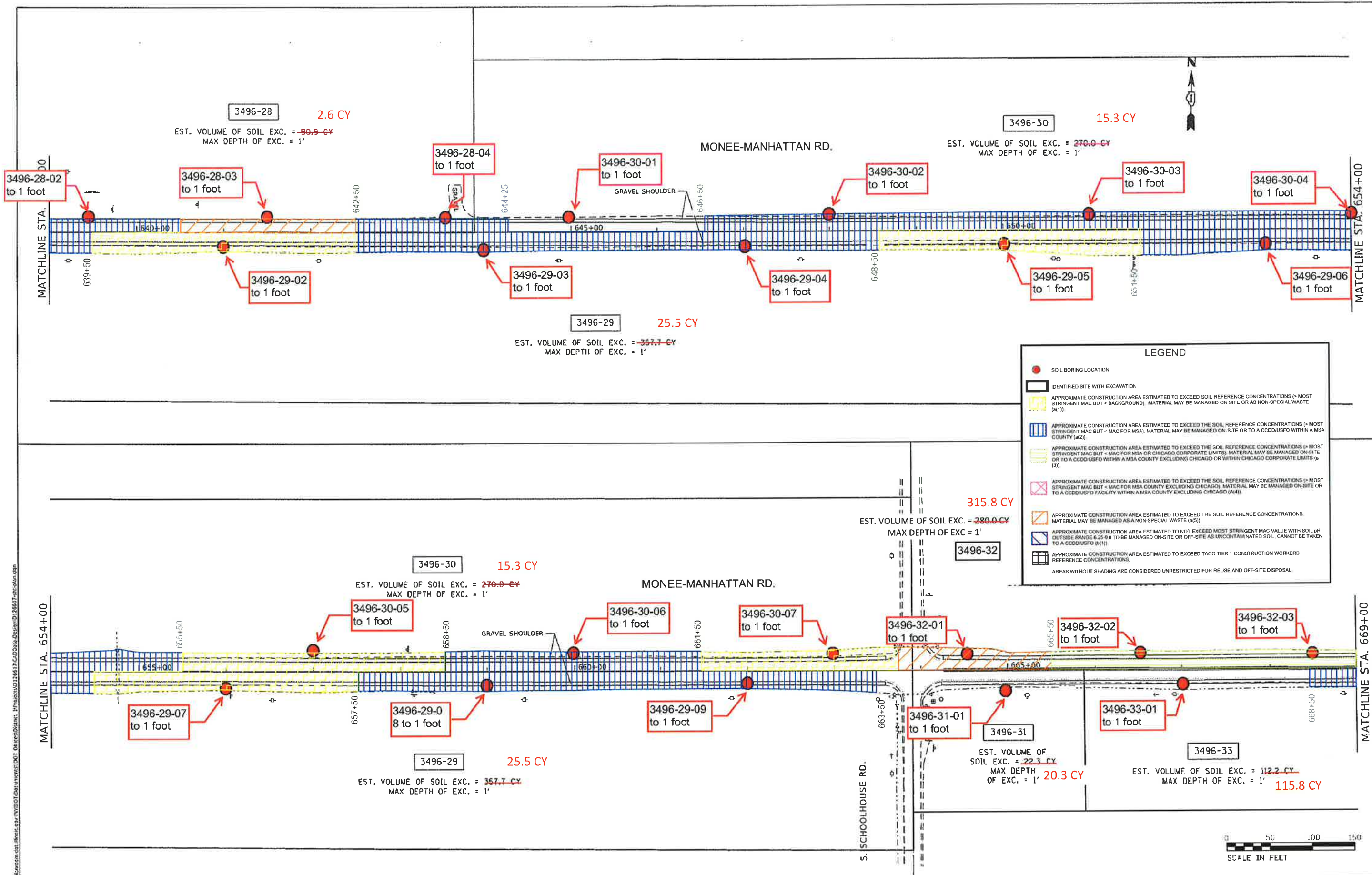


Figure 4-1.5 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONIE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	5
CONTRACT NO. 62F22			ILLINOIS FED. AID PROJECT	

USER NAME	DESIGNED	REVISED
PLOT SCALE	DRAWN	REVISED
PLOT DATE	CHECKED	REVISED
	DATE	REVISED

SHEET OF SHEETS STA. TO STA.

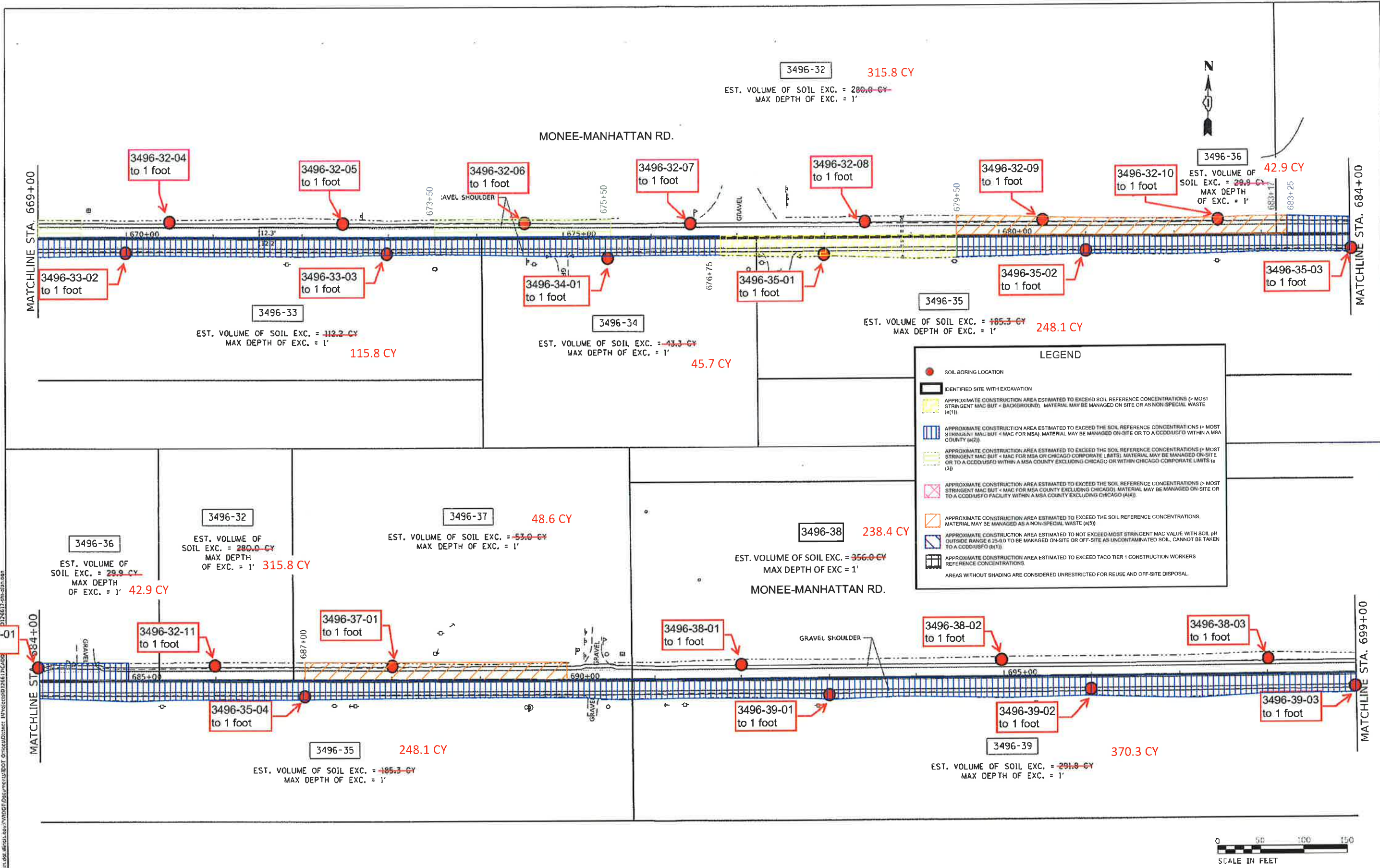


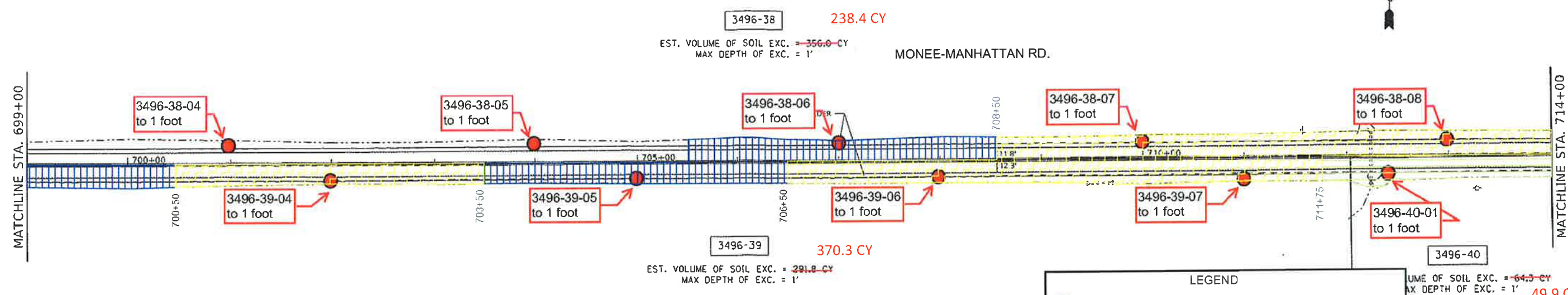
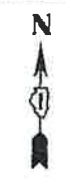
Figure 4-1.6 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USFR 11/14/17	DESIGNED -	REVISD -
PLOT SCALE = 1/8" = 100'	DRAWN -	REVISD -
PLOT DATE = 4/13/2019	CHECKED -	REVISD -
	DATE -	REVISD -

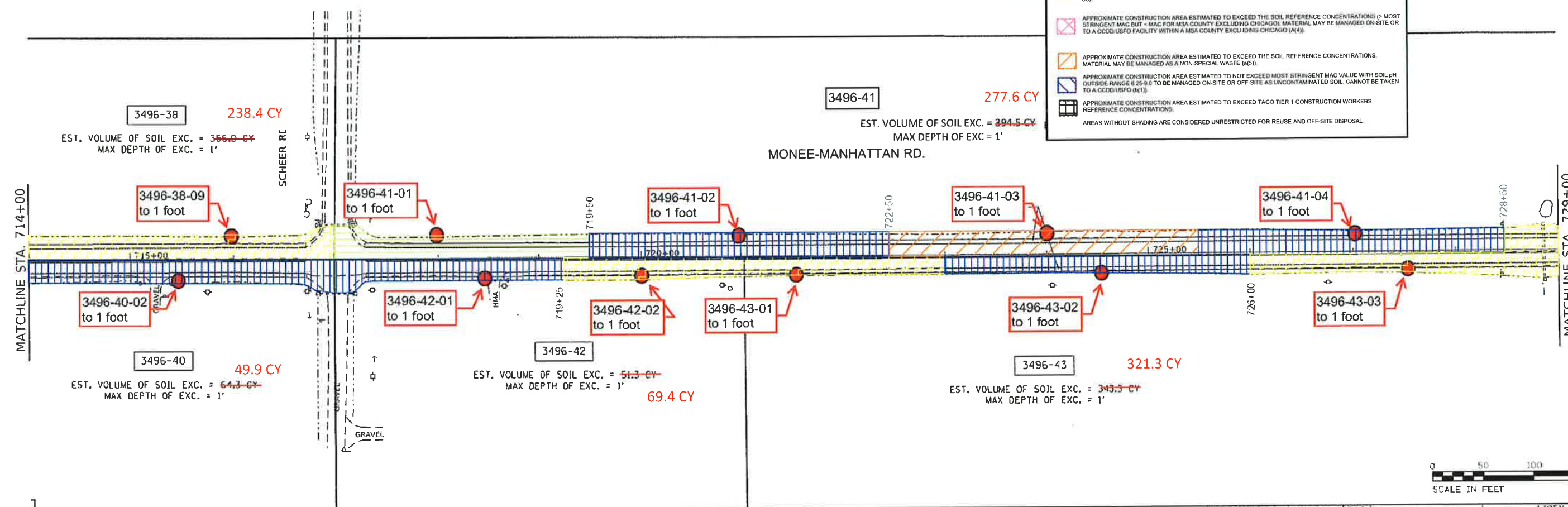
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X1)	WILL	12	6
CONTRACT NO. 62F22			ILLINOIS FED. AID PROJECT	

SHEET OF SHEETS STA. TO STA.



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (A(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO WITHIN A MSA COUNTY (A(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA UN CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO 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 CDDUSFO 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 CDDUSFO (A(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



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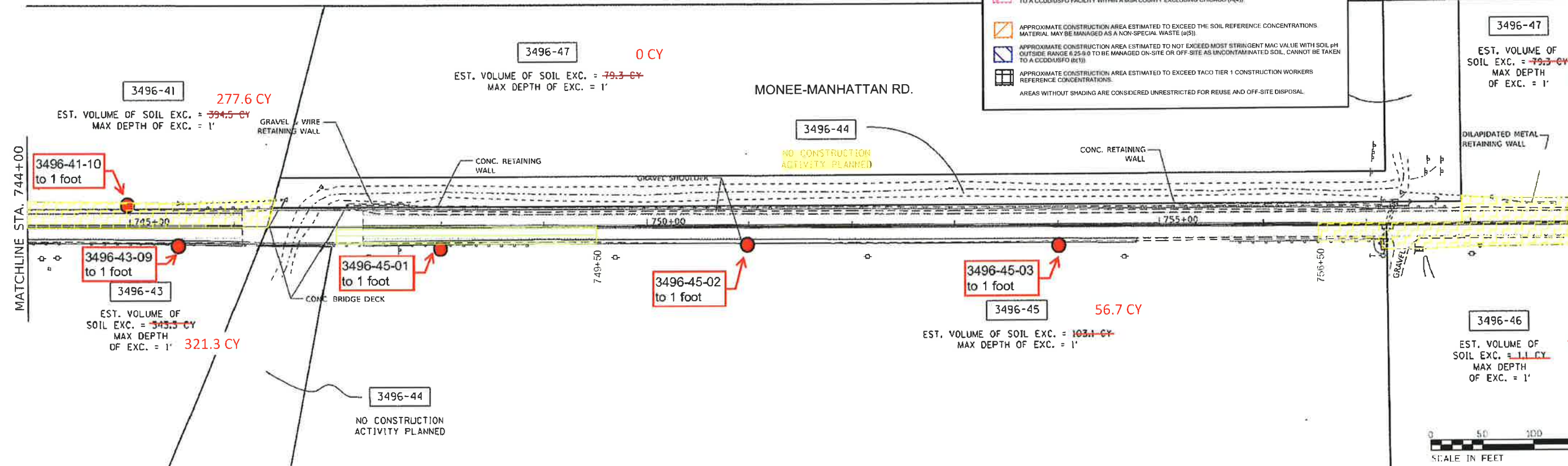
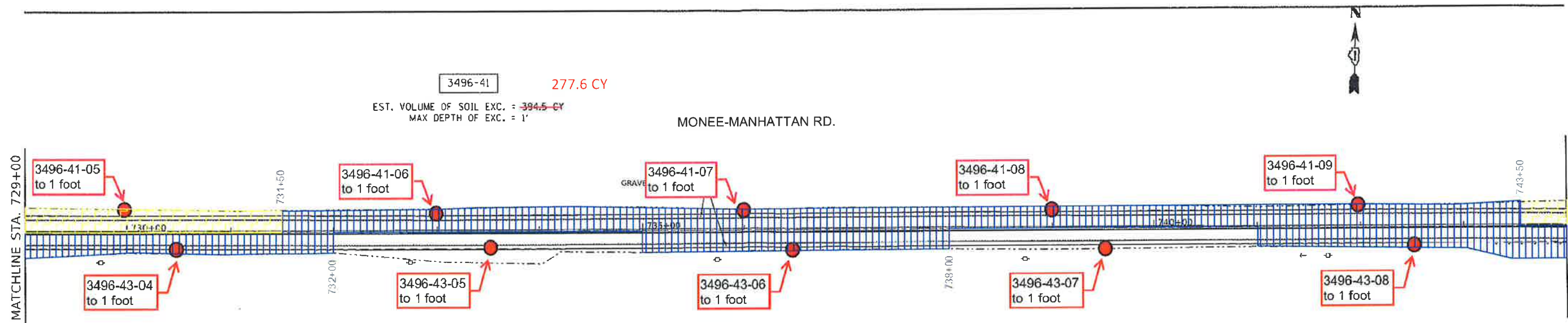
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PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 9/13/2011	CHECKED -	REVISED -
	DATE -	REVISED -

Figure 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	7
CONTRACT NO. 62F22				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.



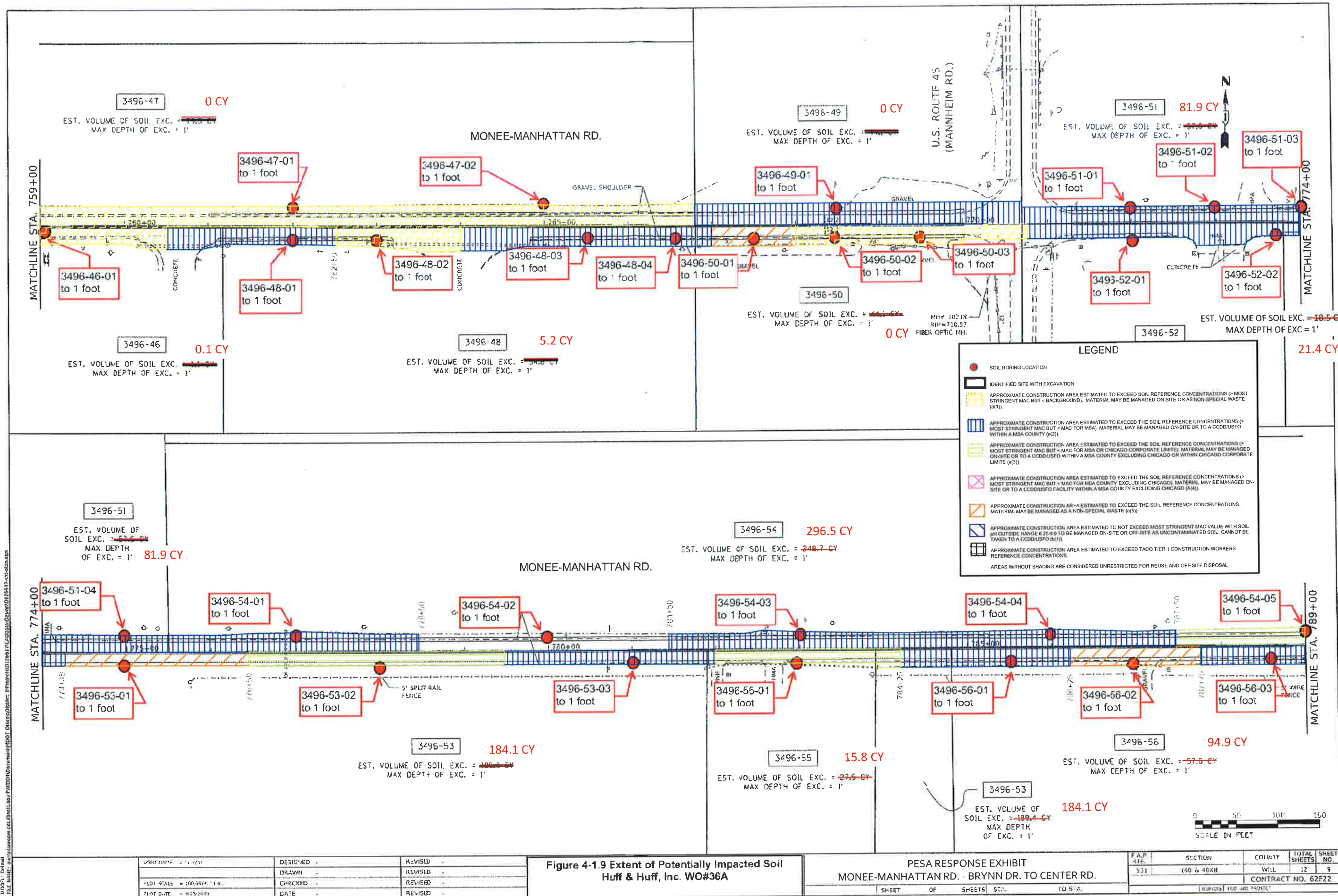
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 USER: JHARRIS
 PLOT DATE: 11/11/11

DESIGNED	REVISIONS
DRAWN	REVISIONS
CHECKED	REVISIONS
DATE	REVISIONS

Figure 4-1.8 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	8
CONTRACT NO. 62F22				
ILLINOIS FED. AID PROJECT				



3496-47 0 CY
EST. VOLUME OF SOIL EXC. = 0 CY
MAX DEPTH OF EXC. = 1'

3496-49 0 CY
EST. VOLUME OF SOIL EXC. = 0 CY
MAX DEPTH OF EXC. = 1'

3496-51 81.9 CY
EST. VOLUME OF SOIL EXC. = 81.9 CY
MAX DEPTH OF EXC. = 1'

3496-46 0.1 CY
EST. VOLUME OF SOIL EXC. = 0.1 CY
MAX DEPTH OF EXC. = 1'

3496-48 5.2 CY
EST. VOLUME OF SOIL EXC. = 5.2 CY
MAX DEPTH OF EXC. = 1'

3496-50 0 CY
EST. VOLUME OF SOIL EXC. = 0 CY
MAX DEPTH OF EXC. = 1'

3496-52 18.5 CY
EST. VOLUME OF SOIL EXC. = 18.5 CY
MAX DEPTH OF EXC. = 1'

3496-51 81.9 CY
EST. VOLUME OF SOIL EXC. = 81.9 CY
MAX DEPTH OF EXC. = 1'

3496-54 296.5 CY
EST. VOLUME OF SOIL EXC. = 296.5 CY
MAX DEPTH OF EXC. = 1'

3496-53 184.1 CY
EST. VOLUME OF SOIL EXC. = 184.1 CY
MAX DEPTH OF EXC. = 1'

3496-55 15.8 CY
EST. VOLUME OF SOIL EXC. = 15.8 CY
MAX DEPTH OF EXC. = 1'

3496-56 94.9 CY
EST. VOLUME OF SOIL EXC. = 94.9 CY
MAX DEPTH OF EXC. = 1'

3496-53 184.1 CY
EST. VOLUME OF SOIL EXC. = 184.1 CY
MAX DEPTH OF EXC. = 1'

LEGEND

- SOIL BORING LOCATION
- ▭ IDENTIFIED SITE WITH EXCAVATION
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (A1).
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDDISFO WITHIN A MSA COUNTY (A2).
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDDISFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (A3).
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDDISFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A4).
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (A5).
- ▨ 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 CDDDISFO (B1).
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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



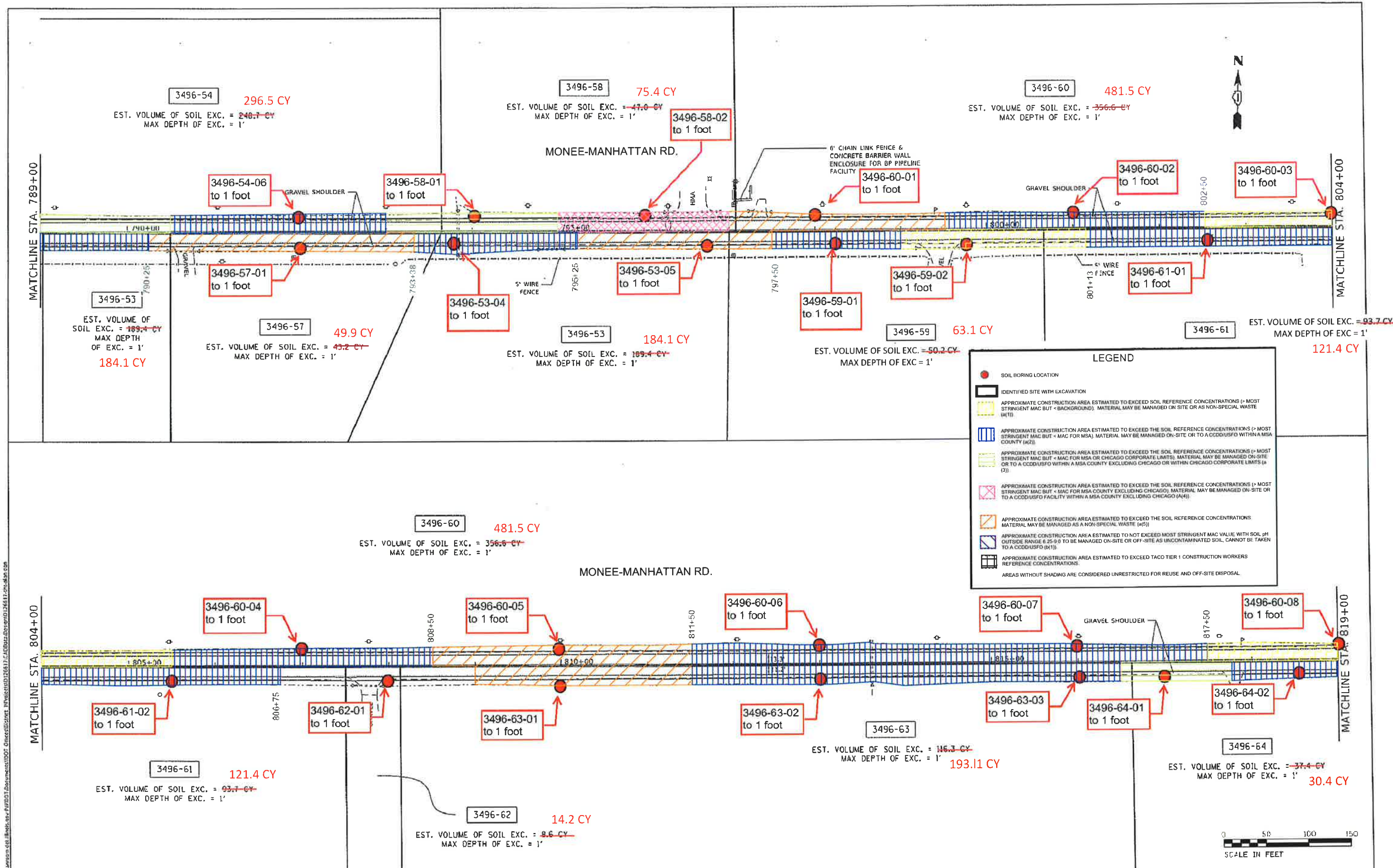
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DRAWN	REVISION
CHECKED	REVISION
DATE	REVISION

Figure 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	100 & 400	WILL	12	9
CONTRACT NO. 62F22				

HUFF & HUFF, INC. 1000 N. WASHINGTON ST., SUITE 200, CHICAGO, IL 60610
 TEL: (773) 399-1000 FAX: (773) 399-1001
 HUFF & HUFF, INC. 1000 N. WASHINGTON ST., SUITE 200, CHICAGO, IL 60610
 TEL: (773) 399-1000 FAX: (773) 399-1001



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (A(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDDUSFO 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 CDDUSFO 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 CDDUSFO 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 CDDUSFO (B(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

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 DRAWING: MONIE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.
 SHEET: 531 OF 531

USPR 11/11/11	DESIGNED -	REVISED -
5/13/2011	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

Figure 4-1.10 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONIE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RATE: 531	SECTION: (40 & 40X)	COUNTY: WILL	TOTAL SHEETS: 12	SHEET NO.: 10
SHEET OF SHEETS STA TO STA.			CONTRACT NO. 62F22	
ILLINOIS FED. AID PROJECT				

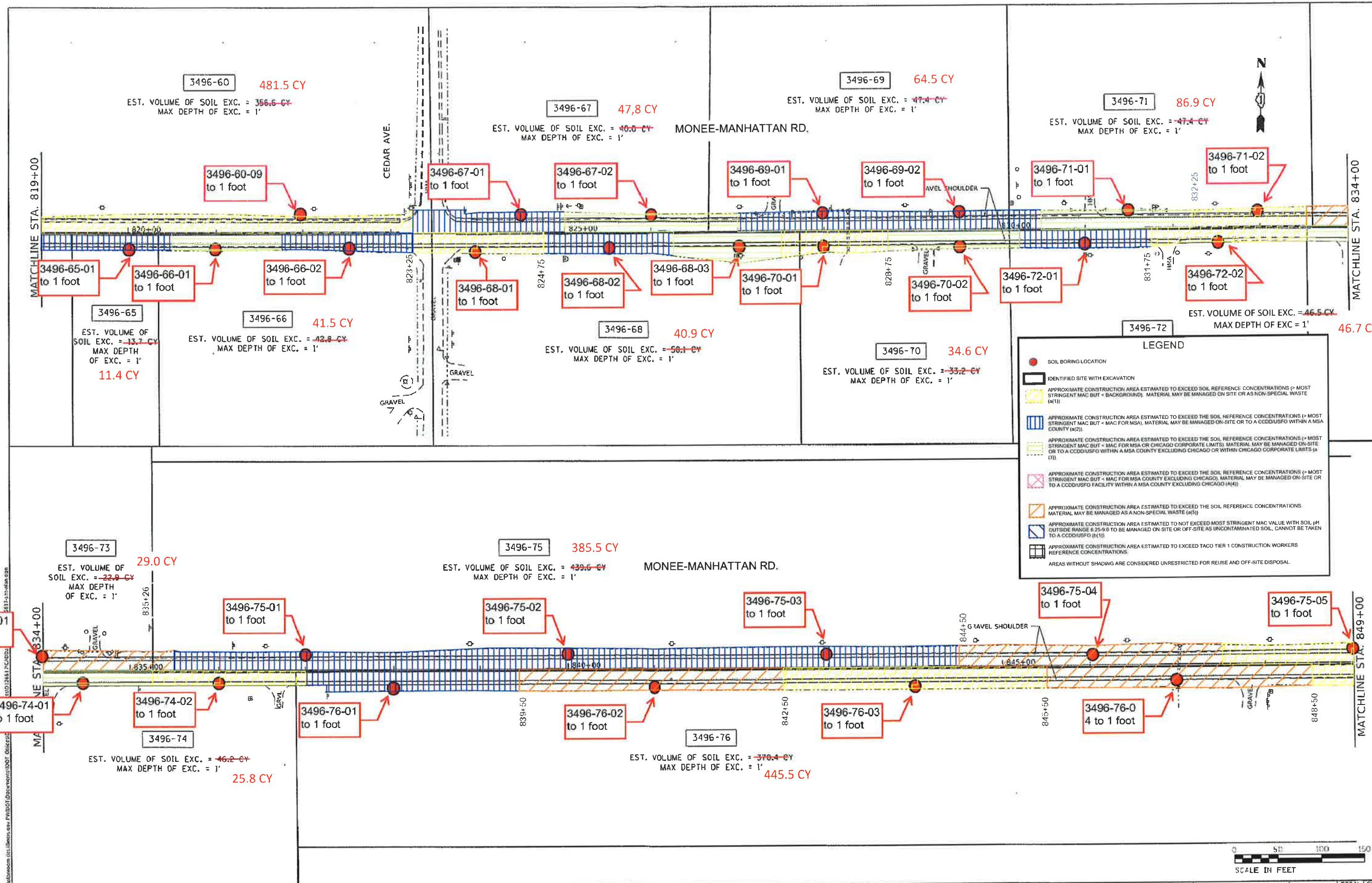


Figure 4-1.11 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

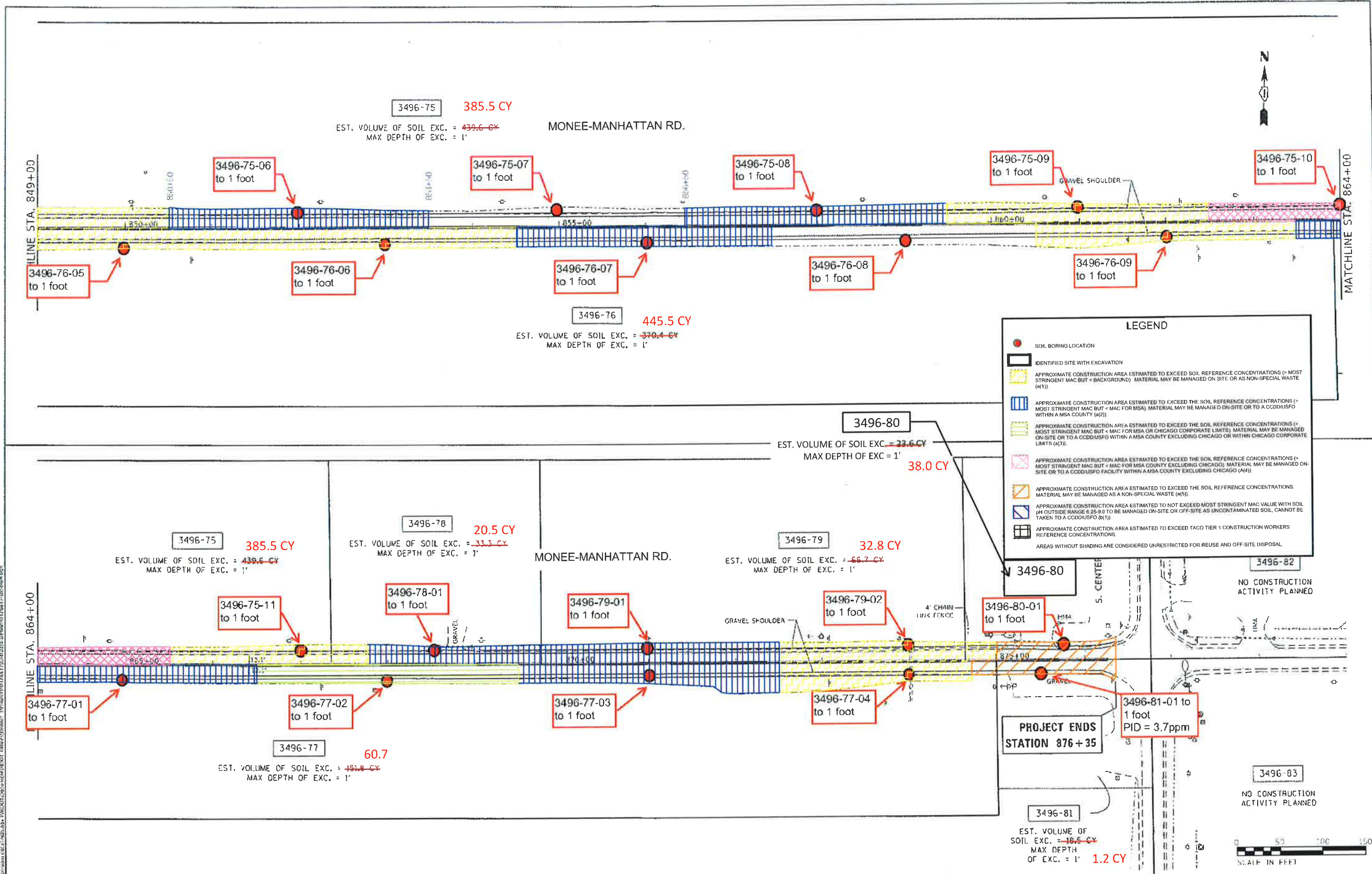
PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40XII)	WILL	12	11

CONTRACT NO. 62F22
ILLINOIS FED AID PROJECT

USFR RAMP	DESIGNED	REVISED
# 11/11/11	-	-
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PLOT DATE = 9/13/2019	DATE	REVISED

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Figure 4-1.12 Extent of Potentially Impacted Soil Huff & Huff, Inc. WO#36A		PESA RESPONSE EXHIBIT MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.	
DESIGNED	REVISIONS	DATE	BY
DRAWN	REVISIONS	DATE	BY
CHECKED	REVISIONS	DATE	BY
DATE	REVISIONS	DATE	BY

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	140 S 40X11	WEL	12	12

CONTRACT NO. G2F22

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
 Manhattan-Monee Road
 Manhattan, Will County, Illinois
 BDE Sequence No.: 21185
 PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-29-08	3496-29-09	3496-30-02	3496-30-03	3496-30-04	3496-30-06	3496-32-02	3496-32-03	3496-32-06	3496-33-02	3496-33-03	3496-34-01	
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
				1/28/2020	1/28/2020	1/28/2020	1/28/2020	1/28/2020	1/28/2020	1/31/2020	1/31/2020	1/31/2020	1/30/2020	1/30/2020	1/30/2020	
				3496-29		3496-30				3496-32			3496-33		3496-34	
Parameter																
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.47	8.96	8.22	8.6	7.73	7.47	7.69	7.8	8.23	8.67	8.41	8.5	
VOCs, mg/kg																
SVOCs, mg/kg																
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.125	0.102	0.144	<0.09	<0.09	<0.09	
Fluoranthene	3,100	82,000	3,100	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.34	<0.33	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61000	2300	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.347	<0.33	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg																
Arsenic	11.3 / 13	61	13	5	6.8	10.4	5.5	4.6	6	6	6.2	5.9	4.5	8.4	6.3	
Barium	1,500	14,000	5500	80.6	70.5	38.9	81.1	95.4	126	73	77.5	66.7	65.3	110	83.5	
Beryllium	22	410	160	<0.5	<0.5	0.7	<0.5	0.5	0.7	<0.5	0.6	0.6	<0.5	0.6	0.5	
Calcium	---	---	---	3910	63600	2390	38200	3290	4810	53200	34600	28000	39900	18200	48200	
Chromium	21	690	230	11.4	16.3	23.6	14.9	14.7	19.1	15.1	15.8	16	17	17.4	17.9	
Cobalt	20	12,000	4700	6.9	10.8	14.1	6.7	7.4	8.3	6.4	9.5	11.7	5.2	8.3	6.4	
Copper	2,900	8,200	2900	12.7	22.4	30	20.9	16.1	21.4	15.9	17.4	15.3	15.6	18.2	16.5	
Iron	15,000 / 15,900	---	---	14500	20300	29500	18200	16300	22900	16900	18200	17000	14500	22400	18300	
Lead	107	700	400	15.2	12.4	15.6	9.1	18.7	19.5	44.4	48.5	59.5	87.2	21.5	68.8	
Magnesium	325,000	730,000	325000	2630	26000	5050	19800	2420	4740	34400	22600	18300	22600	10400	28200	
Manganese	630 / 636	4,100	1600	444	425	566	244	358	478	466	644	606	314	583	467	
Mercury	0.89	0.1	10	0.06	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4,100	1600	12.8	26.6	43.2	21.4	15.6	25.5	12.2	15.2	15.2	12	18.2	14.3	
Potassium	---	---	---	986	2210	2290	1870	1840	1730	1310	1690	1480	1080	1220	1360	
Silver	4.4	1,000	390	0.4	0.5	0.8	0.6	0.5	0.6	0.4	0.4	0.3	0.3	0.5	0.4	
Sodium	---	---	---	1860	1800	2040	1200	1940	1520	789	471	1560	1840	1960	2780	
Vanadium	550	1,400	550	20.2	20.7	28.3	19.6	25.8	30.3	26.1	26.5	24.9	20.5	32.3	27.4	
Zinc	5,100	61,000	23000	43.8	51.5	79.8	44.6	65.8	58.5	67.6	71.5	77.2	73.7	57.8	69.5	
TCLP Metals, mg/L	Class I Groundwater ^{d/}															
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron	5			<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese	0.15			0.4	3	2.1	0.5	6.2	6.7	0.3	0.2	0.2	1	0.8	1.6	
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}															
Arsenic	0.05			0.01	0.044	0.082	0.041	0.014	0.012	<0.010	<0.010	<0.010	0.028	<0.010	<0.010	
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium	0.004			<0.004	<0.004	0.007	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.005	<0.004	<0.004	
Chromium	0.1			0.062	0.088	0.212	0.09	0.049	0.076	0.01	0.02	0.035	0.166	0.043	0.047	
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper	0.65			0.055	0.118	0.275	0.112	0.056	0.068	0.007	0.015	0.029	0.138	0.04	0.041	
Iron	5			60.3	106	226	98.1	50.2	77.3	7	20.8	34.3	160	40.5	41.8	
Lead	0.0075			0.058	0.038	0.065	0.034	0.042	0.022	0.014	0.023	0.095	0.059	0.023	0.105	
Manganese	0.15			0.3	0.5	1.5	0.5	0.5	0.6	<0.1	0.1	0.3	1.2	0.3	0.4	
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel	0.1			<0.1	0.1	0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	
Silver	0.05			<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	5			0.3	0.3	0.6	0.3	0.2	0.2	<0.1	<0.1	0.2	0.4	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.

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
Manhattan-Monee Road
Manhattan, Will County, Illinois
BDE Sequence No.: 21185
PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-35-02	3496-35-03	DUP-10 (3496-35-03)	3496-35-04	3496-36-01	3496-38-06	3496-39-01	3496-39-02	DUP-11 (3496-39-02)	3496-39-03	3496-39-05	3496-40-01	3496-40-02		
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
				1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/31/2020	1/31/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020	1/30/2020
				3496-35			3496-36		3496-38	3496-39					3496-40			
Parameter																		
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.03	8.35	8.29	8.58	8.48	8.48	8.38	8.08	7.96	8.27	8.23	7.76	8.9		
VOCs, mg/kg	NO EXCEEDANCES																	
SVOCs, mg/kg																		
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.18	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.186	<0.09	
Total Metals, mg/kg																		
Arsenic	11.3 / 13	61	13	5.2	9.6	10.7	6.3	10.3	10.7	8.3	11.4	9.4	7	10.8	5.1	6.7		
Barium	1,500	14,000	5500	103	75.3	85.9	81.5	66.4	81	73.3	85.7	76.1	116	128	78.3	72.8		
Beryllium	22	410	160	0.6	0.5	0.6	0.5	0.7	0.8	0.5	0.6	0.6	0.7	0.8	0.6	0.5		
Calcium	---	---	---	6310	1500	1620	12900	1810	17900	9670	2710	2920	6950	10700	20500	14100		
Chromium	21	690	230	15	14.1	16.3	16.2	18.2	21.7	15.9	19.3	16.7	16.6	24.7	14.9	14.7		
Cobalt	20	12,000	4700	5.3	8.9	7.9	7.1	12.4	12.2	9	12.7	11.7	7.7	14.8	6.2	7.3		
Copper	2,900	8,200	2900	15.5	22.6	27.4	16.9	30.5	26.5	22.2	29.1	29.4	18.7	33	17.8	16.4		
Iron	15,000 / 15,900	---	---	17800	22300	24700	18900	26100	28800	21300	27800	22200	20300	32300	17600	19700		
Lead	107	700	400	16.1	11.9	11	73.2	16.4	25.1	60.8	18.5	19.5	21.4	20.1	64.9	17		
Magnesium	325,000	730,000	325000	4130	2520	2890	7370	3170	12500	6410	3790	3230	4430	10000	12000	8880		
Manganese	630 / 636	4,100	1600	312	207	200	330	477	392	484	608	617	476	574	370	407		
Mercury	0.89	0.1	10	<0.05	<0.05	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05		
Nickel	100	4,100	1600	13.7	22.7	28.2	14.7	35.3	30.3	21.5	30.4	19.5	17.2	41.6	15.2	15.6		
Potassium	---	---	---	1030	816	772	1230	1270	2100	1090	1090	862	1220	1620	1130	998		
Silver	4.4	1,000	390	0.4	0.4	0.5	0.4	0.6	0.7	0.5	0.6	0.5	0.5	0.6	<0.2	0.4		
Sodium	---	---	---	1410	807	955	1150	1630	660	1460	738	670	1380	1510	1080	1760		
Vanadium	550	1,400	550	25.3	21.7	24.5	25.3	26.7	32.7	25	30.8	29.3	28.8	32.6	22.1	25.2		
Zinc	5,100	61,000	23000	53.7	46.1	56.8	97.4	58.7	76.7	100	74.5	60	65.6	75.3	88.3	51.3		
TCLP Metals, mg/L	Class I Groundwater ^{d/}																	
Arsenic	0.05	0.05	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		
Barium	2	2	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Beryllium	0.004	0.004	0.004	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		
Chromium	0.1	0.1	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Cobalt	1	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Copper	0.65	0.65	0.65	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Iron	5	5	5	<0.1	<0.1	<0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Lead	0.0075	0.0075	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Manganese	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.3	0.4	0.8	0.1	<0.1	0.2	0.3	0.3	0.6		
Mercury	0.002	0.002	0.002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
Nickel	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Silver	0.05	0.05	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Zinc	5	5	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
SPLP Metals, mg/L	Class I Groundwater ^{d/}																	
Arsenic	0.05	0.05	0.05	<0.010	0.068	0.033	0.011	0.047	0.017	0.043	0.04	0.04	<0.010	0.11	<0.010	0.04		
Barium	2	2	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0		
Beryllium	0.004	0.004	0.004	<0.004	0.005	0.004	<0.004	0.006	<0.004	0.005	0.004	<0.004	<0.004	0.009	<0.004	0.006		
Chromium	0.1	0.1	0.1	0.065	0.145	0.089	0.061	0.161	0.052	0.117	0.103	0.092	0.048	0.248	0.041	0.144		
Cobalt	1	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Copper	0.65	0.65	0.65	0.053	0.185	0.101	0.046	0.186	0.06	0.147	0.124	0.109	0.042	0.299	0.032	0.14		
Iron	5	5	5	63.2	185	118	56.8	195	62.1	139	124	124	46.6	294	35.7	166		
Lead	0.0075	0.0075	0.0075	0.026	0.053	0.027	0.049	0.05	0.04	0.122	0.067	0.054	0.025	0.108	0.095	0.079		
Manganese	0.15	0.15	0.15	0.3	0.7	0.3	0.3	0.5	0.3	0.6	1	0.6	0.3	1.8	0.3	0.9		
Mercury	0.002	0.002	0.002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
Nickel	0.1	0.1	0.1	<0.1	0.2	0.1	<0.1	0.2	<0.1	0.1	0.1	<0.1	<0.1	0.3	<0.1	0.1		
Silver	0.05	0.05	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005		
Zinc	5	5	5	0.2	0.4	0.2	0.2	0.4	0.2	0.5	0.4	0.3	0.2	0.7	0.2	0.5		

--- Refers to not applicable or value not available

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

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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
Manhattan-Monee Road
Manhattan, Will County, Illinois
BDE Sequence No.: 21185
PTB: 178-008/HH-1, Work Order No.: 036A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{d/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	3496-48-01	3496-48-03	3496-48-04	3496-49-01	3496-51-01	3496-51-02	DUP-17 (3496-51-02)	3496-51-03	3496-51-04	3496-52-01	3496-52-02	3496-53-02	3496-53-03	3496-53-04			
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
				1/30/2020	1/30/2020	1/30/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	2/4/2020	1/31/2020	1/31/2020	2/3/2020	2/3/2020	2/3/2020
Parameter				3496-48		3496-49		3496-51				3496-52		3496-53						
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.86	8.44	8.98	8.59	8.49	8.76	8.87	8.21	8.38	8.36	7.97	7.71	8.16	7.36			
VOCs, mg/kg	NO EXCEEDANCES																			
SVOCs, mg/kg	NO EXCEEDANCES																			
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.102	<0.09	<0.09		
Total Metals, mg/kg																				
Arsenic	11.3 / 13	61	13	7.5	6.5	11.4	11.3	10	8.7	11.3	4.8	12	7.2	10.7	5.8	7.3	7.3			
Barium	1,500	14,000	5500	63	103	46.6	168	61.7	53.5	63.3	57.5	95.9	70.5	73.5	143	106	120			
Beryllium	22	410	160	0.5	0.7	0.6	0.7	0.6	0.6	0.7	0.6	1	0.6	0.6	0.9	0.7	0.7			
Calcium	---	---	---	63800	4430	36700	2580	48200	51200	45400	6450	2080	20700	1500	4310	4100	4370			
Chromium	21	690	230	17.6	17.3	17.4	23.6	22.3	18.7	23.4	16.2	30.1	17.2	19.6	20.7	20	19			
Cobalt	20	12,000	4700	8.1	8.8	11.9	14.7	12.5	13.5	14.4	7.2	15.3	10.8	14.6	10.7	8.3	11.2			
Copper	2,900	8,200	2900	26.5	19.4	27.8	34.6	32.2	27.5	33.3	16	37.7	21.2	15.3	21.6	21	20.7			
Iron	15,000 / 15,900	---	---	22400	21400	25700	33600	28600	25500	32100	19400	36800	22600	28700	24600	24200	24500			
Lead	107	700	400	11.3	19.9	25.6	16.2	19.5	15.5	22.7	97.7	18.9	33	20.6	22.6	28.8	28.4			
Magnesium	325,000	730,000	325000	26000	3080	18600	5640	17900	26300	25200	4490	5940	11700	3120	3880	3600	3140			
Manganese	630 / 636	4,100	1600	254	560	382	221	393	461	507	145	522	442	409	216	412	626			
Nickel	100	4,100	1600	24.7	20.1	29.9	40.5	34.5	32.4	37.1	16.2	42.8	24.3	16.8	22.7	20	20.8			
Potassium	---	---	---	1570	1540	1590	2000	1920	2250	1320	2660	1580	1230	1490	1250	1490	1490			
Silver	4.4	1,000	390	0.5	0.5	0.6	0.6	0.6	0.4	0.6	0.4	0.9	0.4	0.6	0.4	0.4	0.4			
Sodium	---	---	---	1930	2700	1870	1930	1790	1700	2180	1560	1480	1540	1680	2810	2800	2020			
Vanadium	550	1,400	550	23.6	27.9	24.9	29.6	29.8	24.8	31.4	24.9	36.8	25.5	31.7	32.7	30.4	33			
Zinc	5,100	61,000	23000	49.6	57.9	64.2	75.9	72.9	68	83.3	75.1	70.1	61.7	42	71.3	72.9	67.1			
TCLP Metals, mg/L	Class I Groundwater ^{d/}																			
Arsenic	0.05	0.05	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010			
Barium	2	2	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Beryllium	0.004	0.004	0.004	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00			
Chromium	0.1	0.1	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	<0.005	<0.005			
Cobalt	1	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Copper	0.65	0.65	0.65	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Iron	5	5	5	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	0.3	0.3	1.8	0.8	<0.1	3.1			
Lead	0.0075	0.0075	0.0075	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.061	<0.005	<0.005	0.01			
Manganese	0.15	0.15	0.15	3.1	0.2	2	2	3.7	3.4	3.6	2.4	<0.1	5.2	7.7	4	0.7	11.4			
Nickel	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Silver	0.05	0.05	0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
Zinc	5	5	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1			
SPLP Metals, mg/L	Class I Groundwater ^{d/}																			
Arsenic	0.05	0.05	0.05	0.027	0.011	0.075	0.038	0.073	0.055	0.038	0.048	0.058	0.026	0.022	0.019	0.027	0.01			
Barium	2	2	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Beryllium	0.004	0.004	0.004	<0.004	<0.004	0.006	<0.004	0.005	0.005	<0.004	0.005	0.009	0.004	<0.004	<0.004	0.004	<0.004			
Chromium	0.1	0.1	0.1	0.071	0.072	0.167	0.07	0.164	0.133	0.092	0.183	0.222	0.124	0.084	0.099	0.131	0.034			
Cobalt	1	1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			
Copper	0.65	0.65	0.65	0.08	0.064	0.256	0.123	0.226	0.153	0.115	0.146	0.246	0.107	0.09	0.108	0.107	0.036			
Iron	5	5	5	87.5	84.2	228	99.3	196	160	112	185	244	117	96.2	105	140	32.4			
Lead	0.0075	0.0075	0.0075	0.028	0.028	0.241	0.053	0.101	0.066	0.042	0.194	0.046	0.131	0.261	0.114	0.085	0.033			
Manganese	0.15	0.15	0.15	0.3	0.3	1.8	1.8	2.5	0.7	0.5	1.3	0.9	1.7	1.2	1.3	0.9	0.3			
Nickel	0.1	0.1	0.1	<0.1	<0.1	0.3	0.1	0.2	0.2	0.1	0.2	0.3	0.1	<0.1	<0.1	0.1	<0.1			
Silver	0.05	0.05	0.05	<0.005	<0.005	0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005			
Zinc	5	5	5	0.2	0.2	0.6	0.3	0.5	0.4	0.3	0.5	0.5	0.4	0.2	0.3	0.5	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.
^{b/} 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.
^{c/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.
^{d/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.
^{e/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration



February 05, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0484
Date Received: January 28, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-1-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	81.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/29/20				
Preparation Date: 01/28/20				
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	



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Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/29/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/28/20

Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/29/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	77.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,300	50	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	14.3	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	34.2	0.5	mg/kg	
Magnesium	37,500	50	mg/kg	
Manganese	435	0.5	mg/kg	
Nickel	13.1	0.5	mg/kg	
Potassium	1,310	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,470	50	mg/kg	



Analytical Report

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Sample ID: 3496-1-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.6	1.0	mg/kg	
Zinc	61.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.81		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.2	0.1	mg/L	
Lead	0.020	0.005	mg/L	
Manganese	7.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-1-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.019	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	66.8	0.1	mg/L	
Lead	0.099	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-1-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-001

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	85.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/29/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/29/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/29/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.1	1.0	mg/kg	
Barium	65.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,600	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	23.4	0.5	mg/kg	
Iron	24,000	5.0	mg/kg	
Lead	33.4	0.5	mg/kg	
Magnesium	20,400	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,380	50	mg/kg	



Analytical Report

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Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	80.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20		Method: 7471B		
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.80		Units	
TCLP Extraction Analysis Date: 01/29/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20		Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 01/31/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.049	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	0.090	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.125	0.005	mg/L	
Iron	125	0.1	mg/L	
Lead	0.080	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-1-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-002

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 75.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 72.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/29/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/29/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/29/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	95.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,400	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	29.1	0.5	mg/kg	
Magnesium	15,700	50	mg/kg	
Manganese	620	0.5	mg/kg	
Nickel	18.3	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,490	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	64.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/30/20 9:30				
pH @ 25°C, 1:2	7.94		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.6	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	15.0	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: 01/31/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.018	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	0.060	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	63.4	0.1	mg/L	
Lead	0.062	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:00

Sample ID: 3496-3-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-004

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 73.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	78.59		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/31/20				
Preparation Date: 01/28/20				
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/31/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/31/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	98.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,000	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	18,800	5.0	mg/kg	
Lead	70.4	0.5	mg/kg	
Magnesium	11,300	50	mg/kg	
Manganese	426	0.5	mg/kg	
Nickel	16.9	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,020	50	mg/kg	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.8	1.0	mg/kg	
Zinc	103	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20		Method: 7471B		
Mercury	0.11	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.01		Units	
TCLP Extraction Analysis Date: 01/29/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/30/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.7	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 Analysis Date: 01/31/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
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	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	53.4	0.1	mg/L	
Lead	0.084	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

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Time Collected: 10:04

Sample ID: 3496-3-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-005

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	81.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	88.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,400	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	31.4	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	502	0.5	mg/kg	
Nickel	19.4	0.5	mg/kg	
Potassium	1,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,930	50	mg/kg	



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Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.6	1.0	mg/kg	
Zinc	79.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	14.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.030	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	110	0.1	mg/L	
Lead	0.103	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:16

Sample ID: 3496-3-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-007

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 62.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.4	50 - 100	



Analytical Report

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Time Collected: 10:22

Sample ID: 3496-3-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-008

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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 Received: 01/28/20

Sample No: 20-0484-008

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/29/20				
Preparation Date: 01/28/20				
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	



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Sample No: 20-0484-008

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/29/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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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: 01/29/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.6	1.0	mg/kg	
Barium	79.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,900	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	17.6	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	18.6	0.5	mg/kg	
Magnesium	20,700	50	mg/kg	
Manganese	313	0.5	mg/kg	
Nickel	18.2	0.5	mg/kg	
Potassium	903	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,440	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.7	1.0	mg/kg	
Zinc	69.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.3	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: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Date Reported: 02/05/20

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Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.122	0.010	mg/L	
Barium	1.4	1.0	mg/L	
Beryllium	0.005	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	0.262	0.005	mg/L	
Iron	262	0.1	mg/L	
Lead	0.073	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/28/20

Sample No: 20-0484-008

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	83.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	24,900	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	26.1	0.5	mg/kg	
Magnesium	17,100	50	mg/kg	
Manganese	357	0.5	mg/kg	
Nickel	22.5	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,530	50	mg/kg	



Analytical Report

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Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.9	1.0	mg/kg	
Zinc	81.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	12.6	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: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.013	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	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	47.2	0.1	mg/L	
Lead	0.043	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:34

Sample ID: 3496-6-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-010

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,300	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	147	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	36.8	0.5	mg/kg	
Magnesium	16,900	50	mg/kg	
Manganese	616	0.5	mg/kg	
Nickel	22.2	0.5	mg/kg	
Potassium	1,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	3,690	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.2	1.0	mg/kg	
Zinc	70.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/30/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.79		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	0.1	mg/L	
Lead	0.008	0.005	mg/L	
Manganese	19.5	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 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/27/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	10:47
Sample ID:	3496-7-02 (0-2)	Date Received:	01/28/20
Sample No:	20-0484-012	Date Reported:	02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 01/28/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/31/20 Preparation Date: 01/29/20				
Arsenic	0.014	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	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.476	0.005	mg/L	
Iron	57.3	0.1	mg/L	
Lead	0.055	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-7-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-012

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 41.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	77.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/29/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/29/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 01/29/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	142	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,310	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	28.6	0.5	mg/kg	
Iron	25,800	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	6,420	50	mg/kg	
Manganese	375	0.5	mg/kg	
Nickel	19.2	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	3,150	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.5	1.0	mg/kg	
Zinc	73.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.10	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	7.72		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.6	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: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
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	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	36.6	0.1	mg/L	
Lead	0.014	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-11-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-013

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 69.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	97.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,700	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	23.7	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	345	0.5	mg/kg	
Nickel	20.8	0.5	mg/kg	
Potassium	1,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,330	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	56.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.11		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.6	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	8.3	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: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.077	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.160	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.191	0.005	mg/L	
Iron	192	0.1	mg/L	
Lead	0.160	0.005	mg/L	
Manganese	1.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.006	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-11-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-014

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 54.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:06

Sample ID: 3496-11-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-015

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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 Received: 01/28/20

Sample No: 20-0484-015

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



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Sample No: 20-0484-015

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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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: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	135	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,700	50	mg/kg	
Chromium	22.7	0.5	mg/kg	
Cobalt	14.6	0.5	mg/kg	
Copper	32.5	0.5	mg/kg	
Iron	31,300	5.0	mg/kg	
Lead	19.1	0.5	mg/kg	
Magnesium	15,800	50	mg/kg	
Manganese	615	0.5	mg/kg	
Nickel	37.2	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,220	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.0	1.0	mg/kg	
Zinc	70.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/31/20 11:15				
pH @ 25°C, 1:2	8.73		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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: 01/31/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.112	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.147	0.005	mg/L	
Iron	135	0.1	mg/L	
Lead	0.051	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample No: 20-0484-015

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:11

Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	86.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:11

Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:11

Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	90.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,800	50	mg/kg	
Chromium	13.9	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	22.2	0.5	mg/kg	
Magnesium	30,800	50	mg/kg	
Manganese	427	0.5	mg/kg	
Nickel	16.4	0.5	mg/kg	
Potassium	1,520	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,330	50	mg/kg	



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Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.3	1.0	mg/kg	
Zinc	49.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 11:11

Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.025	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.113	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.126	0.005	mg/L	
Iron	118	0.1	mg/L	
Lead	0.113	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 3496-11-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-016

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 75.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:22

Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	76.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/03/20				
Preparation Date: 01/28/20				
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	166	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	



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Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 11:22

Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	129	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,260	50	mg/kg	
Chromium	21.4	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	28.8	0.5	mg/kg	
Iron	23,700	5.0	mg/kg	
Lead	20.9	0.5	mg/kg	
Magnesium	6,290	50	mg/kg	
Manganese	331	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,780	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:22

Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.7	1.0	mg/kg	
Zinc	79.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.08	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:22

Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
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	0.103	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.080	0.005	mg/L	
Iron	96.3	0.1	mg/L	
Lead	0.034	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:22

Sample ID: 3496-11-06 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-018

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 78.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	73.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/04/20				
Preparation Date: 01/28/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	337	330	ug/kg	
Benzo(a)pyrene	406	90	ug/kg	
Benzo(b)fluoranthene	378	330	ug/kg	
Benzo(k)fluoranthene	400	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	370	330	ug/kg	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	781	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	



Analytical Report

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Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	624	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: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	86.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	33,600	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	27.3	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	53.5	0.5	mg/kg	
Magnesium	21,900	50	mg/kg	
Manganese	179	0.5	mg/kg	
Nickel	21.9	0.5	mg/kg	
Potassium	2,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,620	50	mg/kg	



Analytical Report

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Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.0	1.0	mg/kg	
Zinc	88.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.080	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.075	0.005	mg/L	
Iron	76.0	0.1	mg/L	
Lead	0.137	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

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Time Collected: 11:32

Sample ID: 3496-11-08 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-020

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 81.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	80.21		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/04/20				
Preparation Date: 01/29/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	345	330	ug/kg	
Benzo(a)pyrene	506	90	ug/kg	
Benzo(b)fluoranthene	405	330	ug/kg	
Benzo(k)fluoranthene	512	330	ug/kg	
Benzo(ghi)perylene	466	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	405	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	464	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	343	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	544	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: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.2	1.0	mg/kg	
Barium	88.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,200	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	12.6	0.5	mg/kg	
Copper	28.2	0.5	mg/kg	
Iron	28,900	5.0	mg/kg	
Lead	21.2	0.5	mg/kg	
Magnesium	16,400	50	mg/kg	
Manganese	451	0.5	mg/kg	
Nickel	29.5	0.5	mg/kg	
Potassium	1,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,050	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.4	1.0	mg/kg	
Zinc	64.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	6.54		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 01/31/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/27/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	12:22
Sample ID:	3496-11-010 (0-2)	Date Received:	01/28/20
Sample No:	20-0484-022	Date Reported:	02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.038	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.124	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.130	0.005	mg/L	
Iron	143	0.1	mg/L	
Lead	0.077	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:22

Sample ID: 3496-11-010 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-022

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.3	50 - 100	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-11-011 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 12:25

Sample ID: 3496-11-011 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/04/20				
Preparation Date: 01/29/20				
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	276	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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-11-011 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	395	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	



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Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	394	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: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	85.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	33,600	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	20,200	5.0	mg/kg	
Lead	26.4	0.5	mg/kg	
Magnesium	22,400	50	mg/kg	
Manganese	500	0.5	mg/kg	
Nickel	20.4	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,880	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.4	1.0	mg/kg	
Zinc	62.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.56		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.006	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: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/28/20

Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.099	0.005	mg/L	
Iron	107	0.1	mg/L	
Lead	0.088	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-11-011 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-023

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	81.59		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	134	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,100	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	448	0.5	mg/kg	
Iron	25,600	5.0	mg/kg	
Lead	43.4	0.5	mg/kg	
Magnesium	16,900	50	mg/kg	
Manganese	558	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	1,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	4,230	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.5	1.0	mg/kg	
Zinc	75.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.4	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	7.6	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: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/30/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.073	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.092	0.005	mg/L	
Iron	80.8	0.1	mg/L	
Lead	0.100	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/31/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-042

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 72	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	77.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	241	0.5	mg/kg	
Beryllium	1.1	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,110	50	mg/kg	
Chromium	25.5	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	42.0	0.5	mg/kg	
Iron	33,000	5.0	mg/kg	
Lead	30.6	0.5	mg/kg	
Magnesium	4,580	50	mg/kg	
Manganese	348	0.5	mg/kg	
Nickel	24.0	0.5	mg/kg	
Potassium	1,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	3,700	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	43.4	1.0	mg/kg	
Zinc	83.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	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 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/30/20		
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	0.048	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.057	0.005	mg/L	
Iron	44.5	0.1	mg/L	
Lead	0.020	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: 01/31/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-043

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	77.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	105	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,780	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	23.5	0.5	mg/kg	
Iron	26,600	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	4,400	50	mg/kg	
Manganese	162	0.5	mg/kg	
Nickel	20.6	0.5	mg/kg	
Potassium	1,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,250	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 01/30/20		Preparation Method 3050B		
		Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.3	1.0	mg/kg	
Zinc	64.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	0.09	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/31/20 11:15				
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/03/20		Preparation Method 3010A		
		Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/27/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	12:32
Sample ID:	3496-11-013 (0-2)	Date Received:	01/28/20
Sample No:	20-0484-025	Date Reported:	02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.140	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.123	0.005	mg/L	
Iron	151	0.1	mg/L	
Lead	0.043	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:32

Sample ID: 3496-11-013 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-025

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	112	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	93.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,500	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	21.6	0.5	mg/kg	
Magnesium	10,100	50	mg/kg	
Manganese	422	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	1,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,760	50	mg/kg	



Analytical Report

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Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.0	1.0	mg/kg	
Zinc	59.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.42		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	14.2	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 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.060	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.142	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.180	0.005	mg/L	
Iron	172	0.1	mg/L	
Lead	0.147	0.005	mg/L	
Manganese	3.1	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:46

Sample ID: 3496-20-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-027

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 56.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	80.09		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.0	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,930	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	21.3	0.5	mg/kg	
Iron	24,900	5.0	mg/kg	
Lead	16.8	0.5	mg/kg	
Magnesium	6,120	50	mg/kg	
Manganese	441	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	3,590	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.7	1.0	mg/kg	
Zinc	56.1	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.58		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.5	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: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/27/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	12:53
Sample ID:	3496-20-02 (0-2)	Date Received:	01/28/20
Sample No:	20-0484-028	Date Reported:	02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 01/28/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/30/20 Preparation Date: 01/29/20				
Arsenic	0.095	0.010	mg/L	
Barium	2.5	1.0	mg/L	
Beryllium	0.015	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.423	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.368	0.005	mg/L	
Iron	487	0.1	mg/L	
Lead	0.146	0.005	mg/L	
Manganese	3.0	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.012	0.005	mg/L	
Zinc	1.0	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/30/20				
Mercury	0.0006	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:53

Sample ID: 3496-20-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-028

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	81.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.2	1.0	mg/kg	
Barium	84.8	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	20,600	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	24,100	5.0	mg/kg	
Lead	32.7	0.5	mg/kg	
Magnesium	13,300	50	mg/kg	
Manganese	452	0.5	mg/kg	
Nickel	23.4	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,100	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.1	1.0	mg/kg	
Zinc	75.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/31/20 11:15				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.048	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.150	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.155	0.005	mg/L	
Iron	172	0.1	mg/L	
Lead	0.131	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	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-21-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-029

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.0	1.0	mg/kg	
Barium	59.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,700	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	24,400	5.0	mg/kg	
Lead	18.1	0.5	mg/kg	
Magnesium	8,460	50	mg/kg	
Manganese	413	0.5	mg/kg	
Nickel	26.1	0.5	mg/kg	
Potassium	1,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,280	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.1	1.0	mg/kg	
Zinc	56.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	41.4	0.1	mg/L	
Lead	0.018	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:02

Sample ID: 3496-21-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-030

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 74.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	83.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

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Time Collected: 13:56

Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/03/20				
Preparation Date: 01/30/20				
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	



Analytical Report

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Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 13:56

Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.4	1.0	mg/kg	
Barium	30.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,200	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	32.9	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	18,700	50	mg/kg	
Manganese	474	0.5	mg/kg	
Nickel	30.5	0.5	mg/kg	
Potassium	1,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	743	50	mg/kg	



Analytical Report

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Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	17.8	1.0	mg/kg	
Zinc	74.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.059	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	0.106	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.175	0.005	mg/L	
Iron	151	0.1	mg/L	
Lead	0.052	0.005	mg/L	
Manganese	1.2	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	0.8	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-24-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-035

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 65.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	6.8	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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/03/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	75.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,200	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	17.5	0.5	mg/kg	
Magnesium	11,800	50	mg/kg	
Manganese	424	0.5	mg/kg	
Nickel	19.2	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,400	50	mg/kg	



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Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.8	1.0	mg/kg	
Zinc	58.6	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.03		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.041	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.121	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.137	0.005	mg/L	
Iron	155	0.1	mg/L	
Lead	0.086	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:43

Sample ID: 3496-26-02 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-037

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 65.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:48

Sample ID: 3496-26-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-039

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	77.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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 Received: 01/28/20

Sample No: 20-0484-039

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



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Sample No: 20-0484-039

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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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: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	111	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	16.2	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	19.2	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	22.9	0.5	mg/kg	
Magnesium	17,800	50	mg/kg	
Manganese	542	0.5	mg/kg	
Nickel	18.7	0.5	mg/kg	
Potassium	1,750	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	3,140	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.6	1.0	mg/kg	
Zinc	60.6	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20		Method: 7471B		
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15		Method: 9045D 2004		
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction Analysis Date: 01/29/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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 Analysis Date: 02/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/28/20

Sample No: 20-0484-039

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
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	0.064	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	53.7	0.1	mg/L	
Lead	0.038	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:48

Sample ID: 3496-26-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-039

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 78.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	80.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	69.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	108,000	50	mg/kg	
Chromium	10.1	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	15.1	0.5	mg/kg	
Iron	13,300	5.0	mg/kg	
Lead	17.9	0.5	mg/kg	
Magnesium	64,500	50	mg/kg	
Manganese	448	0.5	mg/kg	
Nickel	11.8	0.5	mg/kg	
Potassium	1,390	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,120	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	17.0	1.0	mg/kg	
Zinc	52.4	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15		Method: 9045D 2004		
pH @ 25°C, 1:2	7.64		Units	
TCLP Extraction Analysis Date: 01/29/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.6	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	7.2	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 Analysis Date: 02/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
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	0.028	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.043	0.005	mg/L	
Iron	27.3	0.1	mg/L	
Lead	0.036	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:50

Sample ID: 3496-26-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-040

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 83.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 69.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 62.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.9	50 - 100	



February 10, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0509
Date Received: January 29, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	86.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	65.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,700	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	22,500	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	24,900	50	mg/kg	
Manganese	342	0.5	mg/kg	
Nickel	26.5	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,220	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.2	1.0	mg/kg	
Zinc	63.3	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/03/20 10:00				
pH @ 25°C, 1:2	8.82		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20				Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.9	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: 02/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.074	0.005	mg/L	
Iron	83.5	0.1	mg/L	
Lead	0.036	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:18

Sample ID: 3496-18-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-004

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 65.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	82.00		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/30/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	96.2	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,440	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	25.1	0.5	mg/kg	
Iron	26,300	5.0	mg/kg	
Lead	23.2	0.5	mg/kg	
Magnesium	5,530	50	mg/kg	
Manganese	181	0.5	mg/kg	
Nickel	22.5	0.5	mg/kg	
Potassium	1,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,260	50	mg/kg	



Analytical Report

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.7	1.0	mg/kg	
Zinc	73.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.01		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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: 02/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.039	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	37.2	0.1	mg/L	
Lead	0.015	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:13

Sample ID: 3496-18-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-005

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 65.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 53.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	76.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	138	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,900	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	23.3	0.5	mg/kg	
Magnesium	8,110	50	mg/kg	
Manganese	620	0.5	mg/kg	
Nickel	18.8	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,260	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.5	1.0	mg/kg	
Zinc	67.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.17		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.027	0.005	mg/L	
Iron	35.4	0.1	mg/L	
Lead	0.014	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:10

Sample ID: 3496-18-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-006

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:05

Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	82.15		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/30/20

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

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:05

Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



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Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	108	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,900	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	21,300	5.0	mg/kg	
Lead	25.7	0.5	mg/kg	
Magnesium	8,940	50	mg/kg	
Manganese	525	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	0.5	0.2	mg/kg	
Sodium	2,440	50	mg/kg	



Analytical Report

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Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.3	1.0	mg/kg	
Zinc	67.4	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	7.68		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	11.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:05

Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	45.0	0.1	mg/L	
Lead	0.056	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:05

Sample ID: 3496-18-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-007

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 65.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	82.61		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	79.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,300	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	10.4	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	14.7	0.5	mg/kg	
Magnesium	30,500	50	mg/kg	
Manganese	401	0.5	mg/kg	
Nickel	26.8	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,160	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.6	1.0	mg/kg	
Zinc	61.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
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	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.020	0.005	mg/L	
Iron	20.3	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-18-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-008

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 53.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 69.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 60.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	85.69		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/30/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	67.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,000	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	13.3	0.5	mg/kg	
Copper	33.6	0.5	mg/kg	
Iron	26,200	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	27,100	50	mg/kg	
Manganese	444	0.5	mg/kg	
Nickel	32.1	0.5	mg/kg	
Potassium	2,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,020	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.1	1.0	mg/kg	
Zinc	68.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/03/20 10:00				
pH @ 25°C, 1:2	8.19		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20				Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/03/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	30.2	0.1	mg/L	
Lead	0.010	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:55

Sample ID: 3496-18-07 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-009

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	81.96		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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	11.0	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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	74.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	22,000	50	mg/kg	
Chromium	21.6	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	31.3	0.5	mg/kg	
Iron	31,100	5.0	mg/kg	
Lead	17.5	0.5	mg/kg	
Magnesium	15,100	50	mg/kg	
Manganese	456	0.5	mg/kg	
Nickel	32.1	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,550	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.6	1.0	mg/kg	
Zinc	71.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.068	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.083	0.005	mg/L	
Iron	82.8	0.1	mg/L	
Lead	0.027	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:41

Sample ID: 3496-22-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-011

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 43.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 66.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 60.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	84.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	47.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,300	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	24,100	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	23,700	50	mg/kg	
Manganese	478	0.5	mg/kg	
Nickel	25.4	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	939	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	63.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.062	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.155	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.156	0.005	mg/L	
Iron	197	0.1	mg/L	
Lead	0.113	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:28

Sample ID: 3496-22-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-012

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 26.6	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 73.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 45.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 54.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	84.90		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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

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Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/07/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Collected: 01/28/20

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Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20		Preparation Date: 02/04/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20		Preparation Date: 01/30/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	47.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	28,800	50	mg/kg	
Chromium	12.6	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	15,800	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	15,700	50	mg/kg	
Manganese	468	0.5	mg/kg	
Nickel	17.2	0.5	mg/kg	
Potassium	1,650	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	749	50	mg/kg	



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Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.8	1.0	mg/kg	
Zinc	39.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/04/20 9:00				
pH @ 25°C, 1:2	8.52		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20				Preparation Date: 02/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	8.6	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-042

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.031	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.034	0.005	mg/L	
Iron	35.3	0.1	mg/L	
Lead	0.013	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-DUP-06 (0-2)
Sample No: 20-0509-042

Date Collected: 01/28/20
Time Collected: 9:05
Date Received: 01/29/20
Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	84.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	352	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	361	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	490	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	445	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: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.9	1.0	mg/kg	
Barium	94.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,470	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	26,900	5.0	mg/kg	
Lead	40.8	0.5	mg/kg	
Magnesium	6,120	50	mg/kg	
Manganese	792	0.5	mg/kg	
Nickel	21.8	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,230	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.8	1.0	mg/kg	
Zinc	99.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	40.4	0.1	mg/L	
Lead	0.037	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-25-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-015

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 39	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 76.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 60.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 58.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	78.39		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	986	330	ug/kg	
Benzo(a)pyrene	1,230	90	ug/kg	
Benzo(b)fluoranthene	1,210	330	ug/kg	
Benzo(k)fluoranthene	1,260	330	ug/kg	
Benzo(ghi)perylene	741	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,270	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	182	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	2,410	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	817	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,370	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	2,150	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: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	100	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,800	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	24.8	0.5	mg/kg	
Iron	23,900	5.0	mg/kg	
Lead	81.5	0.5	mg/kg	
Magnesium	11,900	50	mg/kg	
Manganese	526	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	2,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,660	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.1	1.0	mg/kg	
Zinc	105	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 01/30/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/04/20 Preparation Date: 02/03/20				
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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	31.7	0.1	mg/L	
Lead	0.059	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-25-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-017

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 85.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 94.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	75.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	125	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,150	50	mg/kg	
Chromium	18.6	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	22.5	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	18.5	0.5	mg/kg	
Magnesium	3,650	50	mg/kg	
Manganese	432	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,340	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.2	1.0	mg/kg	
Zinc	72.4	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00		Method: 9045D 2004		
pH @ 25°C, 1:2	7.67		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.8	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: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.080	0.005	mg/L	
Iron	56.6	0.1	mg/L	
Lead	0.050	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-27-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-019

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 55.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 21	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 83.4		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 19.9	*	35 - 105
8270C	Phenol-d5 (surr)	%R: 46.3	*	50 - 100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	84.69		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	79.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	27,800	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	23.2	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	44.8	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	318	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,760	50	mg/kg	



Analytical Report

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Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.0	1.0	mg/kg	
Zinc	80.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	7.76		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20		Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.7	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	8.0	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 Analysis Date: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-28-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.020	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	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.076	0.005	mg/L	
Iron	61.8	0.1	mg/L	
Lead	0.080	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/29/20

Sample No: 20-0509-021

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:21

Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	83.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 11:21

Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/03/20				
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	



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Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	82.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,140	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	25.2	0.5	mg/kg	
Iron	28,700	5.0	mg/kg	
Lead	23.0	0.5	mg/kg	
Magnesium	4,570	50	mg/kg	
Manganese	439	0.5	mg/kg	
Nickel	24.2	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,410	50	mg/kg	



Analytical Report

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Time Collected: 11:21

Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.6	1.0	mg/kg	
Zinc	70.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	7.99		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.4	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 Analysis Date: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:21

Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.035	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.073	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.138	0.005	mg/L	
Iron	100	0.1	mg/L	
Lead	0.093	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:21

Sample ID: 3496-28-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-022

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	82.32		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	82.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,660	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	12.2	0.5	mg/kg	
Copper	23.4	0.5	mg/kg	
Iron	25,200	5.0	mg/kg	
Lead	56.8	0.5	mg/kg	
Magnesium	6,420	50	mg/kg	
Manganese	606	0.5	mg/kg	
Nickel	23.7	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	3,260	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.0	1.0	mg/kg	
Zinc	94.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	7.84		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	4.5	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	10.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.073	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.234	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.298	0.005	mg/L	
Iron	253	0.1	mg/L	
Lead	0.466	0.005	mg/L	
Manganese	4.8	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.006	0.005	mg/L	
Zinc	0.9	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:12

Sample ID: 3496-28-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-024

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	82.41		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	97.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,600	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	18.0	0.5	mg/kg	
Magnesium	15,000	50	mg/kg	
Manganese	593	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,070	50	mg/kg	



Analytical Report

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Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	61.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
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	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.039	0.005	mg/L	
Iron	45.2	0.1	mg/L	
Lead	0.025	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 9:47

Sample ID: 3496-29-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-025

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 83.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 52.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:57

Sample ID: 3496-29-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	84.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 9:57

Sample ID: 3496-29-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:57

Sample ID: 3496-29-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 9:57

Sample ID: 3496-29-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	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	50,800	50	mg/kg	
Chromium	17.5	0.5	mg/kg	
Cobalt	11.3	0.5	mg/kg	
Copper	23.1	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	11.5	0.5	mg/kg	
Magnesium	21,400	50	mg/kg	
Manganese	420	0.5	mg/kg	
Nickel	28.4	0.5	mg/kg	
Potassium	2,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,580	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 01/28/20
Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73 **Time Collected:** 9:57
Sample ID: 3496-29-03 (0-2) **Date Received:** 01/29/20
Sample No: 20-0509-027 **Date Reported:** 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.4	1.0	mg/kg	
Zinc	48.3	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20		Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.4	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 Analysis Date: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 9:57

Sample ID: 3496-29-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.033	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.079	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.102	0.005	mg/L	
Iron	88.7	0.1	mg/L	
Lead	0.038	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:57

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Date Received: 01/29/20

Sample No: 20-0509-027

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 69.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	85.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	78.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	16,200	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	14.6	0.5	mg/kg	
Magnesium	12,300	50	mg/kg	
Manganese	505	0.5	mg/kg	
Nickel	29.2	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,610	50	mg/kg	



Analytical Report

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Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	60.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	12.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.151	0.010	mg/L	
Barium	1.6	1.0	mg/L	
Beryllium	0.011	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.315	0.005	mg/L	
Cobalt	0.2	0.1	mg/L	
Copper	0.461	0.005	mg/L	
Iron	444	0.1	mg/L	
Lead	0.186	0.005	mg/L	
Manganese	5.5	0.1	mg/L	
Nickel	0.5	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.009	0.005	mg/L	
Zinc	1.0	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 10:03

Sample ID: 3496-29-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-028

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:15

Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	78.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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	7.3	5.0	ug/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:15

Sample ID: 3496-29-06 (0-2)

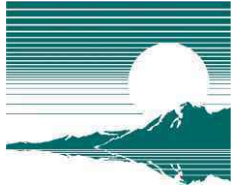
Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



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Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	80.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	14,100	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	18.2	0.5	mg/kg	
Magnesium	8,710	50	mg/kg	
Manganese	478	0.5	mg/kg	
Nickel	16.6	0.5	mg/kg	
Potassium	1,910	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,640	50	mg/kg	



Analytical Report

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Time Collected: 10:15

Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.3	1.0	mg/kg	
Zinc	54.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.8	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: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:15

Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
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	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.049	0.005	mg/L	
Iron	45.4	0.1	mg/L	
Lead	0.026	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:15

Sample ID: 3496-29-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-030

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	75.16		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/07/20				
Preparation Date: 02/04/20				
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	253	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	457	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	387	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: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	79.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,500	50	mg/kg	
Chromium	13.5	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	19,000	5.0	mg/kg	
Lead	37.4	0.5	mg/kg	
Magnesium	6,480	50	mg/kg	
Manganese	347	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,730	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.0	1.0	mg/kg	
Zinc	61.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/04/20 9:00				
pH @ 25°C, 1:2	7.72		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20				Preparation Date: 02/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	7.8	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
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	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.074	0.005	mg/L	
Iron	46.5	0.1	mg/L	
Lead	0.059	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-05 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-041

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	79.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	80.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,910	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	12.7	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	15.2	0.5	mg/kg	
Magnesium	2,630	50	mg/kg	
Manganese	444	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	986	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,860	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.2	1.0	mg/kg	
Zinc	43.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/04/20 9:00				
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20				Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
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	0.062	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	60.3	0.1	mg/L	
Lead	0.058	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-29-08 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-032

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 81.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	86.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

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Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	70.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,600	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	26,000	50	mg/kg	
Manganese	425	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	2,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,800	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.7	1.0	mg/kg	
Zinc	51.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.96		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/28/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	10:26
Sample ID:	3496-29-09 (0-2)	Date Received:	01/29/20
Sample No:	20-0509-033	Date Reported:	02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.044	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	0.088	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.118	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.038	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-29-09 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-033

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	81.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	38.9	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	23.6	0.5	mg/kg	
Cobalt	14.1	0.5	mg/kg	
Copper	30.0	0.5	mg/kg	
Iron	29,500	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	5,050	50	mg/kg	
Manganese	566	0.5	mg/kg	
Nickel	43.2	0.5	mg/kg	
Potassium	2,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,040	50	mg/kg	



Analytical Report

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Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.3	1.0	mg/kg	
Zinc	79.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.082	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.212	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.275	0.005	mg/L	
Iron	226	0.1	mg/L	
Lead	0.065	0.005	mg/L	
Manganese	1.5	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-30-02 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-035

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	85.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

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Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	81.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	38,200	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	20.9	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	19,800	50	mg/kg	
Manganese	244	0.5	mg/kg	
Nickel	21.4	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,200	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	19.6	1.0	mg/kg	
Zinc	44.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/04/20 9:00				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20				Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.041	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.090	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.112	0.005	mg/L	
Iron	98.1	0.1	mg/L	
Lead	0.034	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-30-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-036

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 96.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	77.94		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	95.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,290	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	16.1	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	2,420	50	mg/kg	
Manganese	358	0.5	mg/kg	
Nickel	15.6	0.5	mg/kg	
Potassium	1,840	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,940	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.8	1.0	mg/kg	
Zinc	65.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/30/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/04/20 9:00				
pH @ 25°C, 1:2	7.73		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/30/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20				Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.014	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	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.056	0.005	mg/L	
Iron	50.2	0.1	mg/L	
Lead	0.042	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-30-04 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-037

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	79.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	126	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,810	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	4,740	50	mg/kg	
Manganese	478	0.5	mg/kg	
Nickel	25.5	0.5	mg/kg	
Potassium	1,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,520	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.3	1.0	mg/kg	
Zinc	58.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	7.47		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.7	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 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	77.3	0.1	mg/L	
Lead	0.022	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-30-06 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-039

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.2	50 - 100	



February 14, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0536
Date Received: January 30, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	81.18		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	92.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	28,500	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	23.1	0.5	mg/kg	
Iron	20,500	5.0	mg/kg	
Lead	22.0	0.5	mg/kg	
Magnesium	17,500	50	mg/kg	
Manganese	523	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,370	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/31/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.3	1.0	mg/kg	
Zinc	57.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	7.90		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	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	7.8	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: 02/05/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/29/20
Project ID:	IDOT WO36 Manhattan-Monee 81.0220509.73	Time Collected:	11:05
Sample ID:	3496-2-02 (0-2)	Date Received:	01/30/20
Sample No:	20-0536-002	Date Reported:	02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.059	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	67.2	0.1	mg/L	
Lead	0.040	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-2-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 62	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	95.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	14,100	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	22.5	0.5	mg/kg	
Magnesium	8,880	50	mg/kg	
Manganese	427	0.5	mg/kg	
Nickel	18.6	0.5	mg/kg	
Potassium	1,910	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,930	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.2	1.0	mg/kg	
Zinc	60.6	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	7.41		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/04/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.8	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: 02/05/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	24.6	0.1	mg/L	
Lead	0.021	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:56

Sample ID: 3496-2-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.07		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	156	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,260	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	37.0	0.5	mg/kg	
Magnesium	5,580	50	mg/kg	
Manganese	542	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,670	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.3	1.0	mg/kg	
Zinc	66.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/04/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/05/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	93.3	0.1	mg/L	
Lead	0.032	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-2-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 63.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 54.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 53.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 75.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 63.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.43		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	71.2	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,470	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	11.1	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	13.1	0.5	mg/kg	
Magnesium	2,880	50	mg/kg	
Manganese	386	0.5	mg/kg	
Nickel	25.2	0.5	mg/kg	
Potassium	982	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,740	50	mg/kg	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.3	1.0	mg/kg	
Zinc	44.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.24		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
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	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	48.9	0.1	mg/L	
Lead	0.019	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:48

Sample ID: 3496-4-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-006

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.69		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	68.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,200	50	mg/kg	
Chromium	10.3	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	12.5	0.5	mg/kg	
Iron	13,000	5.0	mg/kg	
Lead	17.0	0.5	mg/kg	
Magnesium	23,600	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	11.0	0.5	mg/kg	
Potassium	1,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,480	50	mg/kg	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.8	1.0	mg/kg	
Zinc	43.6	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.35		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.4	0.1	mg/L	
Lead	0.008	0.005	mg/L	
Manganese	13.0	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 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/03/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/06/20 Preparation Date: 02/04/20				
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	0.018	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.022	0.005	mg/L	
Iron	18.5	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-5-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 114.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 102.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 85.8	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 102.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 98.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/10/20				
Preparation Date: 02/05/20				
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	



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Time Collected: 9:10

Sample ID: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	76.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,200	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	17.4	0.5	mg/kg	
Magnesium	7,610	50	mg/kg	
Manganese	277	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	1,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,650	50	mg/kg	



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Date Received: 01/30/20

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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/31/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.9	1.0	mg/kg	
Zinc	50.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.62		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/05/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
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	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.026	0.005	mg/L	
Iron	24.7	0.1	mg/L	
Lead	0.017	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-09 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 88.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 74.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	24,800	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	26.7	0.5	mg/kg	
Magnesium	15,800	50	mg/kg	
Manganese	588	0.5	mg/kg	
Nickel	15.0	0.5	mg/kg	
Potassium	1,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,760	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.9	1.0	mg/kg	
Zinc	56.3	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	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 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
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	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	46.2	0.1	mg/L	
Lead	0.043	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-10-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 118.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 83	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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	7.2	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	123	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,120	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	28.8	0.5	mg/kg	
Magnesium	5,910	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	3,070	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.6	1.0	mg/kg	
Zinc	61.8	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	7.1	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: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
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	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	23.5	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	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-07 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 114.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 95	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.59		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

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Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	78.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	46,500	50	mg/kg	
Chromium	12.8	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	14.6	0.5	mg/kg	
Iron	14,400	5.0	mg/kg	
Lead	23.0	0.5	mg/kg	
Magnesium	29,500	50	mg/kg	
Manganese	427	0.5	mg/kg	
Nickel	12.6	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,610	50	mg/kg	



Analytical Report

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Date Collected: 01/29/20

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Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.5	1.0	mg/kg	
Zinc	56.1	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
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	0.053	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.035	0.005	mg/L	
Iron	49.3	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/29/20

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Time Collected: 9:56

Sample ID: 3496-13-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	83.21		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	290	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	106	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,800	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	18.1	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	58.4	0.5	mg/kg	
Magnesium	15,300	50	mg/kg	
Manganese	374	0.5	mg/kg	
Nickel	16.5	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,290	50	mg/kg	



Analytical Report

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Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.5	1.0	mg/kg	
Zinc	58.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Arsenic	0.014	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	0.125	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.113	0.005	mg/L	
Iron	116	0.1	mg/L	
Lead	0.159	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

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Time Collected: 9:52

Sample ID: 3496-14-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-020

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 108.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 100.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	204	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	



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Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,800	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	21.0	0.5	mg/kg	
Magnesium	12,300	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,990	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,970	50	mg/kg	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.2	1.0	mg/kg	
Zinc	73.1	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.43		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.5	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: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	41.6	0.1	mg/L	
Lead	0.049	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:50

Sample ID: 3496-14-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-021

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 108.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 116.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 107.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 85.3	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 102.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 107.9	*	35 - 105
8270C	Phenol-d5 (surr)	%R: 98.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	76.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	94.2	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,290	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	26,100	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	4,020	50	mg/kg	
Manganese	147	0.5	mg/kg	
Nickel	20.5	0.5	mg/kg	
Potassium	1,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,140	50	mg/kg	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.0	1.0	mg/kg	
Zinc	47.9	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	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: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-15-01 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.063	0.005	mg/L	
Iron	76.2	0.1	mg/L	
Lead	0.020	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-15-01 (0-2)
Sample No: 20-0536-022

Date Collected: 01/29/20
Time Collected: 9:45
Date Received: 01/30/20
Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 110.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 93	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 85.8	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 98.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 103.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 94.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	74.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	106	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,630	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	22.2	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	3,200	50	mg/kg	
Manganese	333	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,370	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.9	1.0	mg/kg	
Zinc	53.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/29/20
Project ID:	IDOT WO36 Manhattan-Monee 81.0220509.73	Time Collected:	9:42
Sample ID:	3496-15-02 (0-2)	Date Received:	01/30/20
Sample No:	20-0536-023	Date Reported:	02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
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	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.047	0.005	mg/L	
Iron	55.7	0.1	mg/L	
Lead	0.018	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:42

Sample ID: 3496-15-02 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-023

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 85.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 105.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 94.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 89.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	84.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	34.1	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	38,000	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	3.6	0.5	mg/kg	
Copper	22.7	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	13.1	0.5	mg/kg	
Magnesium	25,100	50	mg/kg	
Manganese	172	0.5	mg/kg	
Nickel	13.7	0.5	mg/kg	
Potassium	808	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,060	50	mg/kg	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.7	1.0	mg/kg	
Zinc	35.0	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.78		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.085	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.114	0.005	mg/L	
Iron	130	0.1	mg/L	
Lead	0.056	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-15-03 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 113.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 88.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 84.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 9:34

Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	95.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,900	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	16.6	0.5	mg/kg	
Magnesium	7,130	50	mg/kg	
Manganese	186	0.5	mg/kg	
Nickel	17.1	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,280	50	mg/kg	



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Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.9	1.0	mg/kg	
Zinc	53.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.72		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.5	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: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 9:34

Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.045	0.005	mg/L	
Iron	34.9	0.1	mg/L	
Lead	0.043	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 3496-15-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 108.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 116.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 98.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 83.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 93	50 - 100	



Analytical Report

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Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-15-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	77.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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 Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



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Sample ID: 3496-15-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	94.5	0.5	mg/kg	
Beryllium	1.1	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,040	50	mg/kg	
Chromium	24.4	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	31.3	0.5	mg/kg	
Iron	28,700	5.0	mg/kg	
Lead	22.1	0.5	mg/kg	
Magnesium	5,270	50	mg/kg	
Manganese	426	0.5	mg/kg	
Nickel	36.1	0.5	mg/kg	
Potassium	2,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,480	50	mg/kg	



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Sample ID: 3496-15-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/31/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.9	1.0	mg/kg	
Zinc	61.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	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: 02/05/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 9:30

Sample ID: 3496-15-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/05/20		
Arsenic	0.043	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.175	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.187	0.005	mg/L	
Iron	212	0.1	mg/L	
Lead	0.061	0.005	mg/L	
Manganese	2.1	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-15-05 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 123.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 95.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 81.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 101.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 89.2	50 - 100	



February 14, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0561
Date Received: January 31, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	65.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,900	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	5.2	0.5	mg/kg	
Copper	15.6	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	87.2	0.5	mg/kg	
Magnesium	22,600	50	mg/kg	
Manganese	314	0.5	mg/kg	
Nickel	12.0	0.5	mg/kg	
Potassium	1,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,840	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	20.5	1.0	mg/kg	
Zinc	73.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.67		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.028	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.166	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.138	0.005	mg/L	
Iron	160	0.1	mg/L	
Lead	0.059	0.005	mg/L	
Manganese	1.2	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:33

Sample ID: 3496-33-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-003

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 120.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 88.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	81.39		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	110	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,200	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	21.5	0.5	mg/kg	
Magnesium	10,400	50	mg/kg	
Manganese	583	0.5	mg/kg	
Nickel	18.2	0.5	mg/kg	
Potassium	1,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,960	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.3	1.0	mg/kg	
Zinc	57.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/10/20 Preparation Date: 02/06/20				
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	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.040	0.005	mg/L	
Iron	40.5	0.1	mg/L	
Lead	0.023	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:37

Sample ID: 3496-33-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-004

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 96.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 78.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 102.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 96	35 - 105	
8270C	Phenol-d5 (surr)	%R: 103.6	*	50 - 100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	81.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

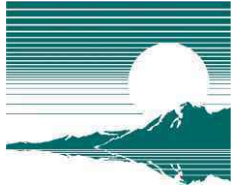
Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/07/20				
Preparation Date: 02/05/20				
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	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/07/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/07/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	83.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,200	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	68.8	0.5	mg/kg	
Magnesium	28,200	50	mg/kg	
Manganese	467	0.5	mg/kg	
Nickel	14.3	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,780	50	mg/kg	



Analytical Report

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Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.4	1.0	mg/kg	
Zinc	69.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
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	0.047	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	41.8	0.1	mg/L	
Lead	0.105	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:43

Sample ID: 3496-34-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-005

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 97	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,310	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	5.3	0.5	mg/kg	
Copper	15.5	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	4,130	50	mg/kg	
Manganese	312	0.5	mg/kg	
Nickel	13.7	0.5	mg/kg	
Potassium	1,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,410	50	mg/kg	



Analytical Report

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Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	53.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.03		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
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	0.065	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.053	0.005	mg/L	
Iron	63.2	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:53

Sample ID: 3496-35-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-007

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 99.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 78.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 110	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98	35 - 105	
8270C	Phenol-d5 (surr)	%R: 90.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:45

Sample ID: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	81.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/05/20				
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	



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Sample ID: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.6	1.0	mg/kg	
Barium	75.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,500	50	mg/kg	
Chromium	14.1	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	22.6	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	2,520	50	mg/kg	
Manganese	207	0.5	mg/kg	
Nickel	22.7	0.5	mg/kg	
Potassium	816	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	807	50	mg/kg	



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Sample ID: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/03/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.7	1.0	mg/kg	
Zinc	46.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:45

Sample ID: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.068	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.145	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.185	0.005	mg/L	
Iron	185	0.1	mg/L	
Lead	0.053	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: 02/06/20				
Mercury	0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 11:45

Sample ID: 3496-35-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-008

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 81.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 107.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 95.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/31/20

Total Solids	77.13		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 02/04/20

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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/06/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/06/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/06/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	81.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,900	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	73.2	0.5	mg/kg	
Magnesium	7,370	50	mg/kg	
Manganese	330	0.5	mg/kg	
Nickel	14.7	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,150	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	97.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.58		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.061	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	56.8	0.1	mg/L	
Lead	0.049	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:10

Sample ID: 3496-35-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-009

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 52.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 69.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/06/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/06/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/06/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	73.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,670	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	22.2	0.5	mg/kg	
Iron	21,300	5.0	mg/kg	
Lead	60.8	0.5	mg/kg	
Magnesium	6,410	50	mg/kg	
Manganese	484	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,460	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.0	1.0	mg/kg	
Zinc	100	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.043	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.117	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.147	0.005	mg/L	
Iron	139	0.1	mg/L	
Lead	0.122	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:15

Sample ID: 3496-39-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-010

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 54.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 70.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/06/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/06/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/06/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.4	1.0	mg/kg	
Barium	85.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,710	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	27,800	5.0	mg/kg	
Lead	18.5	0.5	mg/kg	
Magnesium	3,790	50	mg/kg	
Manganese	608	0.5	mg/kg	
Nickel	30.4	0.5	mg/kg	
Potassium	1,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	738	50	mg/kg	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.8	1.0	mg/kg	
Zinc	74.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.103	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.124	0.005	mg/L	
Iron	124	0.1	mg/L	
Lead	0.067	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:20

Sample ID: 3496-39-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 52.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 74.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 60.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

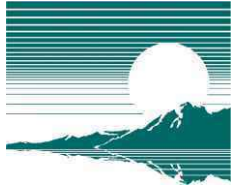
Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/06/20				
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	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/06/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,950	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	18.7	0.5	mg/kg	
Iron	20,300	5.0	mg/kg	
Lead	21.4	0.5	mg/kg	
Magnesium	4,430	50	mg/kg	
Manganese	476	0.5	mg/kg	
Nickel	17.2	0.5	mg/kg	
Potassium	1,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,380	50	mg/kg	



Analytical Report

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Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.8	1.0	mg/kg	
Zinc	65.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
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	0.048	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.042	0.005	mg/L	
Iron	46.6	0.1	mg/L	
Lead	0.025	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 12:25

Sample ID: 3496-39-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-012

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 53.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 70.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:36

Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.57		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 12:36

Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/07/20				
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	



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Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/07/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/31/20

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Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/07/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.8	1.0	mg/kg	
Barium	128	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,700	50	mg/kg	
Chromium	24.7	0.5	mg/kg	
Cobalt	14.8	0.5	mg/kg	
Copper	33.0	0.5	mg/kg	
Iron	32,300	5.0	mg/kg	
Lead	20.1	0.5	mg/kg	
Magnesium	10,000	50	mg/kg	
Manganese	574	0.5	mg/kg	
Nickel	41.6	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,510	50	mg/kg	



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Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/03/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.6	1.0	mg/kg	
Zinc	75.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20		Method: 7471B		
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:36

Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.110	0.010	mg/L	
Barium	1.6	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.248	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.299	0.005	mg/L	
Iron	294	0.1	mg/L	
Lead	0.108	0.005	mg/L	
Manganese	1.8	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.008	0.005	mg/L	
Zinc	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:36

Sample ID: 3496-39-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-014

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	82.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/07/20				
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	186	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/07/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/07/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	78.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	20,500	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	17,600	5.0	mg/kg	
Lead	64.9	0.5	mg/kg	
Magnesium	12,000	50	mg/kg	
Manganese	370	0.5	mg/kg	
Nickel	15.2	0.5	mg/kg	
Potassium	1,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,080	50	mg/kg	



Analytical Report

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Date Collected: 01/30/20

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Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/03/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.1	1.0	mg/kg	
Zinc	88.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.76		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
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	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	35.7	0.1	mg/L	
Lead	0.095	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-40-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-017

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 84.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	83.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/07/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/07/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/07/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	72.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	14,100	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	17.0	0.5	mg/kg	
Magnesium	8,880	50	mg/kg	
Manganese	407	0.5	mg/kg	
Nickel	15.6	0.5	mg/kg	
Potassium	998	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,760	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.2	1.0	mg/kg	
Zinc	51.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.144	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.140	0.005	mg/L	
Iron	166	0.1	mg/L	
Lead	0.079	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 12:56

Sample ID: 3496-40-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-018

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	81.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	85.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,620	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	27.4	0.5	mg/kg	
Iron	24,700	5.0	mg/kg	
Lead	11.0	0.5	mg/kg	
Magnesium	2,890	50	mg/kg	
Manganese	200	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	772	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	955	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.5	1.0	mg/kg	
Zinc	56.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.29		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/10/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.033	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.089	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.101	0.005	mg/L	
Iron	118	0.1	mg/L	
Lead	0.027	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-10 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-041

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 111.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 92.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/31/20

Total Solids	80.96		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 02/05/20

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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

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Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 9:10

Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.4	1.0	mg/kg	
Barium	76.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,920	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	29.4	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	3,230	50	mg/kg	
Manganese	617	0.5	mg/kg	
Nickel	19.5	0.5	mg/kg	
Potassium	862	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	670	50	mg/kg	



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Time Collected: 9:10

Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.3	1.0	mg/kg	
Zinc	60.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.96		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/10/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.092	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.109	0.005	mg/L	
Iron	124	0.1	mg/L	
Lead	0.054	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-DUP-11 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-042

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 86.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.6	50 - 100	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-42-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.57		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 3496-42-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/07/20				
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	



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Sample ID: 3496-42-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/07/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 01/31/20

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Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/07/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	95.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,240	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	12.2	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	25,400	5.0	mg/kg	
Lead	20.2	0.5	mg/kg	
Magnesium	4,720	50	mg/kg	
Manganese	322	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,490	50	mg/kg	



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Date Received: 01/31/20

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Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.5	1.0	mg/kg	
Zinc	61.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/04/20		Method: 7471B		
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	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: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-42-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	0.015	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.059	0.005	mg/L	
Iron	68.6	0.1	mg/L	
Lead	0.032	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-42-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-019

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/10/20				
Preparation Date: 02/07/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/07/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/07/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,410	50	mg/kg	
Chromium	22.9	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	25.3	0.5	mg/kg	
Iron	28,800	5.0	mg/kg	
Lead	16.5	0.5	mg/kg	
Magnesium	4,780	50	mg/kg	
Manganese	231	0.5	mg/kg	
Nickel	27.9	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,020	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.3	1.0	mg/kg	
Zinc	61.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.019	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.070	0.005	mg/L	
Iron	94.3	0.1	mg/L	
Lead	0.024	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:12

Sample ID: 3496-43-02 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-022

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 77.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	80.14		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.8	1.0	mg/kg	
Barium	178	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,280	50	mg/kg	
Chromium	24.8	0.5	mg/kg	
Cobalt	20.0	0.5	mg/kg	
Copper	40.4	0.5	mg/kg	
Iron	33,300	5.0	mg/kg	
Lead	21.9	0.5	mg/kg	
Magnesium	6,050	50	mg/kg	
Manganese	477	0.5	mg/kg	
Nickel	48.4	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,550	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.6	1.0	mg/kg	
Zinc	78.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.84		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.066	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.190	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.242	0.005	mg/L	
Iron	233	0.1	mg/L	
Lead	0.076	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	0.006	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:23

Sample ID: 3496-43-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-024

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 83.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 80.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	79.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.2	1.0	mg/kg	
Barium	77.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,300	50	mg/kg	
Chromium	22.5	0.5	mg/kg	
Cobalt	13.8	0.5	mg/kg	
Copper	33.9	0.5	mg/kg	
Iron	30,100	5.0	mg/kg	
Lead	24.5	0.5	mg/kg	
Magnesium	10,900	50	mg/kg	
Manganese	509	0.5	mg/kg	
Nickel	38.4	0.5	mg/kg	
Potassium	1,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,950	50	mg/kg	



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Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.8	1.0	mg/kg	
Zinc	67.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.45		Units	
TCLP Extraction Analysis Date: 02/04/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.071	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.165	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.226	0.005	mg/L	
Iron	222	0.1	mg/L	
Lead	0.094	0.005	mg/L	
Manganese	0.9	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-43-06 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-026

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 84.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 78.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.71		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.9	1.0	mg/kg	
Barium	76.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,670	50	mg/kg	
Chromium	22.1	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	22.3	0.5	mg/kg	
Iron	27,300	5.0	mg/kg	
Lead	15.0	0.5	mg/kg	
Magnesium	4,300	50	mg/kg	
Manganese	399	0.5	mg/kg	
Nickel	23.7	0.5	mg/kg	
Potassium	1,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,060	50	mg/kg	



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Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 02/10/20 Preparation Date: 02/04/20				
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.8	1.0	mg/kg	
Zinc	54.7	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 02/05/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 02/06/20 9:30				
pH @ 25°C, 1:2	7.85		Units	
TCLP Extraction Method: 1311				
Analysis Date: 02/04/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/07/20 Preparation Date: 02/06/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	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: 02/07/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.046	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.165	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.178	0.005	mg/L	
Iron	205	0.1	mg/L	
Lead	0.050	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:37

Sample ID: 3496-43-08 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-028

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 88	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 84.7	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 98.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 104.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 92.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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	21.2	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



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Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/09/20				
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	



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Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	105	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,000	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	55.9	0.5	mg/kg	
Magnesium	7,410	50	mg/kg	
Manganese	258	0.5	mg/kg	
Nickel	19.4	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,430	50	mg/kg	



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Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.3	1.0	mg/kg	
Zinc	92.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	6.99		Units	
TCLP Extraction Analysis Date: 02/04/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.8	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: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/04/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/11/20 Preparation Date: 02/10/20				
Arsenic	0.014	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	0.065	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.074	0.005	mg/L	
Iron	76.5	0.1	mg/L	
Lead	0.102	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-45-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-030

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 113.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 93.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 93.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	77.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	103	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	81.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,600	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	35.7	0.5	mg/kg	
Magnesium	21,500	50	mg/kg	
Manganese	414	0.5	mg/kg	
Nickel	17.5	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,350	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.9	1.0	mg/kg	
Zinc	73.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.2	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	2.2	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 Analysis Date: 02/10/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	21.7	0.1	mg/L	
Lead	0.017	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-13 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-044

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 116.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 100.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 80.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 101.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 104.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 93.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	84.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	63.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,800	50	mg/kg	
Chromium	17.6	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	26.5	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	26,000	50	mg/kg	
Manganese	254	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	1,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,930	50	mg/kg	



Analytical Report

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Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.6	1.0	mg/kg	
Zinc	49.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.86		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.1	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 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.027	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	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.080	0.005	mg/L	
Iron	87.5	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:09

Sample ID: 3496-48-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-034

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 120.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 99.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 83.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 105.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 103.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 94.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:16

Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	78.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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

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Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



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Time Collected: 14:16

Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,430	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	19.9	0.5	mg/kg	
Magnesium	3,080	50	mg/kg	
Manganese	560	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,700	50	mg/kg	



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Time Collected: 14:16

Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.9	1.0	mg/kg	
Zinc	57.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.064	0.005	mg/L	
Iron	84.2	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:16

Sample ID: 3496-48-03 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-036

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 111.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 95.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 107.3	*	35 - 105
8270C	Phenol-d5 (surr)	%R: 87.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:23

Sample ID: 3496-48-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-037

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	84.77		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:23

Sample ID: 3496-48-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-037

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:23

Sample ID: 3496-48-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-037

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:23

Sample ID: 3496-48-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-037

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.4	1.0	mg/kg	
Barium	46.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,700	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	27.8	0.5	mg/kg	
Iron	25,700	5.0	mg/kg	
Lead	25.6	0.5	mg/kg	
Magnesium	18,600	50	mg/kg	
Manganese	382	0.5	mg/kg	
Nickel	29.9	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,870	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 14:23

Sample ID: 3496-48-04 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-037

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	64.2	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Analysis Date: 02/04/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/30/20
Project ID:	IDOT WO36 Manhattan-Monee 81.0220509.73	Time Collected:	14:23
Sample ID:	3496-48-04 (0-2)	Date Received:	01/31/20
Sample No:	20-0561-037	Date Reported:	02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/11/20 Preparation Date: 02/10/20				
Arsenic	0.075	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.167	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.256	0.005	mg/L	
Iron	228	0.1	mg/L	
Lead	0.241	0.005	mg/L	
Manganese	1.8	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-48-04 (0-2)
Sample No: 20-0561-037

Date Collected: 01/30/20
Time Collected: 14:23
Date Received: 01/31/20
Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.2	50 - 100	



February 17, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0602
Date Received: February 03, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 1002922019-1: effective 08/22/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal Cleghorn
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	75.29		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	125	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	340	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	347	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: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	73.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,200	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	44.4	0.5	mg/kg	
Magnesium	34,400	50	mg/kg	
Manganese	466	0.5	mg/kg	
Nickel	12.2	0.5	mg/kg	
Potassium	1,310	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	789	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.1	1.0	mg/kg	
Zinc	67.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/05/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/07/20				
pH @ 25°C, 1:2	7.69		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	7.0	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-32-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-002

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 108.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 108	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 116.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 110.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 86	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 114.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 110.4	*	35 - 105
8270C	Phenol-d5 (surr)	%R: 95.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	79.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	102	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	77.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,600	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	17.4	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	48.5	0.5	mg/kg	
Magnesium	22,600	50	mg/kg	
Manganese	644	0.5	mg/kg	
Nickel	15.2	0.5	mg/kg	
Potassium	1,690	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	471	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/06/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/05/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.5	1.0	mg/kg	
Zinc	71.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.80		Units	
TCLP Extraction Analysis Date: 02/05/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/11/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.015	0.005	mg/L	
Iron	20.8	0.1	mg/L	
Lead	0.023	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:13

Sample ID: 3496-32-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-003

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 54.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 71.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	80.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	144	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	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	28,000	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	59.5	0.5	mg/kg	
Magnesium	18,300	50	mg/kg	
Manganese	606	0.5	mg/kg	
Nickel	15.2	0.5	mg/kg	
Potassium	1,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,560	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/06/20		Preparation Method 3050B		
		Preparation Date: 02/05/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	77.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/05/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/07/20				
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/11/20		Preparation Method 3010A		
		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:03

Sample ID: 3496-32-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-006

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/05/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/11/20 Preparation Date: 02/10/20				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.035	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	34.3	0.1	mg/L	
Lead	0.095	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT W036 Manhattan-Monee 81.0220509.73
Sample ID: 3496-32-06 (0-2)
Sample No: 20-0602-006

Date Collected: 01/31/20
Time Collected: 13:03
Date Received: 02/03/20
Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 110.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 111	90 - 110	*
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 74.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	80.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.3	1.0	mg/kg	
Barium	66.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,810	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	12.4	0.5	mg/kg	
Copper	30.5	0.5	mg/kg	
Iron	26,100	5.0	mg/kg	
Lead	16.4	0.5	mg/kg	
Magnesium	3,170	50	mg/kg	
Manganese	477	0.5	mg/kg	
Nickel	35.3	0.5	mg/kg	
Potassium	1,270	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,630	50	mg/kg	



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Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/12/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.7	1.0	mg/kg	
Zinc	58.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/06/20		Method: 7471B		
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/10/20 10:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Analysis Date: 02/05/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/11/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.047	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.161	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.186	0.005	mg/L	
Iron	195	0.1	mg/L	
Lead	0.050	0.005	mg/L	
Manganese	0.5	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:34

Sample ID: 3496-36-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-012

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 79	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	79.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	81.0	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,900	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	12.2	0.5	mg/kg	
Copper	26.5	0.5	mg/kg	
Iron	28,800	5.0	mg/kg	
Lead	25.1	0.5	mg/kg	
Magnesium	12,500	50	mg/kg	
Manganese	392	0.5	mg/kg	
Nickel	30.3	0.5	mg/kg	
Potassium	2,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	660	50	mg/kg	



Analytical Report

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Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.7	1.0	mg/kg	
Zinc	76.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.017	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	62.1	0.1	mg/L	
Lead	0.040	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:49

Sample ID: 3496-38-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-019

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 109.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 111	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 81.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 103.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 110.7	*	35 - 105
8270C	Phenol-d5 (surr)	%R: 92.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	79.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	95	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	134	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,400	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	109	0.5	mg/kg	
Magnesium	21,200	50	mg/kg	
Manganese	597	0.5	mg/kg	
Nickel	16.9	0.5	mg/kg	
Potassium	1,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,010	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.7	1.0	mg/kg	
Zinc	141	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.17		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	0.7	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	0.2	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

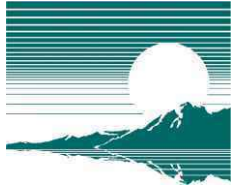
Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
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	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.079	0.005	mg/L	
Iron	69.0	0.1	mg/L	
Lead	0.136	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-41-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-023

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 77.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	83.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/12/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/12/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	71.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,000	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	11.6	0.5	mg/kg	
Magnesium	24,700	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	25.8	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,240	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.8	1.0	mg/kg	
Zinc	47.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.2	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.027	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	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.098	0.005	mg/L	
Iron	91.0	0.1	mg/L	
Lead	0.032	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-41-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-024

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 80.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:12

Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	78.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:12

Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:12

Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:12

Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.7	1.0	mg/kg	
Barium	94.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,470	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	24.5	0.5	mg/kg	
Iron	27,200	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	3,700	50	mg/kg	
Manganese	198	0.5	mg/kg	
Nickel	27.0	0.5	mg/kg	
Potassium	1,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	452	50	mg/kg	



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Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.2	1.0	mg/kg	
Zinc	50.2	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.15		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:12

Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.022	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.117	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.134	0.005	mg/L	
Iron	140	0.1	mg/L	
Lead	0.044	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-41-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-026

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-41-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	76.52		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 10:03

Sample ID: 3496-41-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	



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Sample ID: 3496-41-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	124	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,840	50	mg/kg	
Chromium	21.2	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	24,900	5.0	mg/kg	
Lead	18.3	0.5	mg/kg	
Magnesium	6,900	50	mg/kg	
Manganese	477	0.5	mg/kg	
Nickel	25.8	0.5	mg/kg	
Potassium	2,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	977	50	mg/kg	



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Date Received: 02/03/20

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Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.0	1.0	mg/kg	
Zinc	69.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.20		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-41-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.014	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.040	0.005	mg/L	
Iron	47.2	0.1	mg/L	
Lead	0.023	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:03

Sample ID: 3496-41-06 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-028

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 81.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	76.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,960	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	23,700	5.0	mg/kg	
Lead	19.6	0.5	mg/kg	
Magnesium	4,710	50	mg/kg	
Manganese	493	0.5	mg/kg	
Nickel	22.5	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,650	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.6	1.0	mg/kg	
Zinc	58.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.87		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.065	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	68.0	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-41-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-029

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 89.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	79.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	107	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	12,600	50	mg/kg	
Chromium	21.7	0.5	mg/kg	
Cobalt	13.9	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	27,400	5.0	mg/kg	
Lead	23.4	0.5	mg/kg	
Magnesium	9,350	50	mg/kg	
Manganese	594	0.5	mg/kg	
Nickel	30.9	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,830	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/12/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.5	1.0	mg/kg	
Zinc	64.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.62		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	14.6	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.027	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	0.080	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.097	0.005	mg/L	
Iron	87.8	0.1	mg/L	
Lead	0.055	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:49

Sample ID: 3496-41-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-030

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	82.51		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/13/20				
Preparation Date: 02/11/20				
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	



Analytical Report

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Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/13/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	13.0	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,390	50	mg/kg	
Chromium	24.3	0.5	mg/kg	
Cobalt	17.4	0.5	mg/kg	
Copper	29.9	0.5	mg/kg	
Iron	35,100	5.0	mg/kg	
Lead	20.0	0.5	mg/kg	
Magnesium	6,970	50	mg/kg	
Manganese	587	0.5	mg/kg	
Nickel	44.0	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,380	50	mg/kg	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.0	1.0	mg/kg	
Zinc	88.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.036	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	0.074	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.121	0.005	mg/L	
Iron	94.0	0.1	mg/L	
Lead	0.040	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-41-09 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-031

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-49-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	82.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-49-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

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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: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-49-01 (0-2)

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Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	168	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,580	50	mg/kg	
Chromium	23.6	0.5	mg/kg	
Cobalt	14.7	0.5	mg/kg	
Copper	34.6	0.5	mg/kg	
Iron	33,600	5.0	mg/kg	
Lead	16.2	0.5	mg/kg	
Magnesium	5,640	50	mg/kg	
Manganese	221	0.5	mg/kg	
Nickel	40.5	0.5	mg/kg	
Potassium	2,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,930	50	mg/kg	



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Date Received: 02/03/20

Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.6	1.0	mg/kg	
Zinc	75.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.6	0.1	mg/L	
Lead	0.010	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-49-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.038	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	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.123	0.005	mg/L	
Iron	99.3	0.1	mg/L	
Lead	0.053	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-49-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-035

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 83.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 93.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 93.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87.2	50 - 100	



Analytical Report

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Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-51-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-036

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	83.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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 Received: 02/03/20

Sample No: 20-0602-036

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



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Date Received: 02/03/20

Sample No: 20-0602-036

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.0	1.0	mg/kg	
Barium	61.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,200	50	mg/kg	
Chromium	22.3	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	32.2	0.5	mg/kg	
Iron	28,600	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	17,900	50	mg/kg	
Manganese	393	0.5	mg/kg	
Nickel	34.5	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,790	50	mg/kg	



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Date Received: 02/03/20

Sample No: 20-0602-036

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.8	1.0	mg/kg	
Zinc	72.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/10/20 10:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction Analysis Date: 02/05/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.7	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 Analysis Date: 02/11/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/31/20
Project ID:	IDOT W036 Manhattan-Monee 81.0220509.73	Time Collected:	14:00
Sample ID:	3496-51-01 (0-2)	Date Received:	02/03/20
Sample No:	20-0602-036	Date Reported:	02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Arsenic	0.073	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.164	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.226	0.005	mg/L	
Iron	196	0.1	mg/L	
Lead	0.101	0.005	mg/L	
Manganese	2.5	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 14:00

Sample ID: 3496-51-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-036

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> Low High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 81.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 92.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	83.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	53.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	51,200	50	mg/kg	
Chromium	18.7	0.5	mg/kg	
Cobalt	13.5	0.5	mg/kg	
Copper	27.5	0.5	mg/kg	
Iron	25,500	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	26,300	50	mg/kg	
Manganese	461	0.5	mg/kg	
Nickel	32.4	0.5	mg/kg	
Potassium	1,920	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,700	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.8	1.0	mg/kg	
Zinc	68.0	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.76		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.4	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.055	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.133	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.153	0.005	mg/L	
Iron	160	0.1	mg/L	
Lead	0.066	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:56

Sample ID: 3496-51-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-037

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 100.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 85.7	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 93.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 105	35 - 105	
8270C	Phenol-d5 (surr)	%R: 91.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	88.51		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	57.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,450	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	16.0	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	97.7	0.5	mg/kg	
Magnesium	4,490	50	mg/kg	
Manganese	145	0.5	mg/kg	
Nickel	16.2	0.5	mg/kg	
Potassium	1,320	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,560	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.9	1.0	mg/kg	
Zinc	75.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/11/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.4	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.048	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.183	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	0.194	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-51-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-038

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 90.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 79.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	83.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	70.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	20,700	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	22,600	5.0	mg/kg	
Lead	33.0	0.5	mg/kg	
Magnesium	11,700	50	mg/kg	
Manganese	442	0.5	mg/kg	
Nickel	24.3	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,540	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.5	1.0	mg/kg	
Zinc	61.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/11/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.124	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	117	0.1	mg/L	
Lead	0.131	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:37

Sample ID: 3496-52-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-039

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 84.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	84.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	73.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,500	50	mg/kg	
Chromium	19.6	0.5	mg/kg	
Cobalt	14.6	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	28,700	5.0	mg/kg	
Lead	20.6	0.5	mg/kg	
Magnesium	3,120	50	mg/kg	
Manganese	409	0.5	mg/kg	
Nickel	16.8	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,680	50	mg/kg	



Analytical Report

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Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.7	1.0	mg/kg	
Zinc	42.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/06/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/10/20 10:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction Analysis Date: 02/05/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.8	0.1	mg/L	
Lead	0.061	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 Analysis Date: 02/11/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:47

Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.022	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	96.2	0.1	mg/L	
Lead	0.261	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-52-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-040

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 81.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	84.49		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 9:15

Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



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Time Collected: 9:15

Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	63.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	45,400	50	mg/kg	
Chromium	23.4	0.5	mg/kg	
Cobalt	14.4	0.5	mg/kg	
Copper	33.3	0.5	mg/kg	
Iron	32,100	5.0	mg/kg	
Lead	22.7	0.5	mg/kg	
Magnesium	25,200	50	mg/kg	
Manganese	507	0.5	mg/kg	
Nickel	37.1	0.5	mg/kg	
Potassium	2,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,180	50	mg/kg	



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Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.4	1.0	mg/kg	
Zinc	83.3	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/07/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.87		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.6	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: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.038	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	0.092	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.115	0.005	mg/L	
Iron	112	0.1	mg/L	
Lead	0.042	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-17 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-044

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 99.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 92.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.6	50 - 100	



February 19, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0635
Date Received: February 04, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	78.80		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	102	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20		Preparation Date: 02/07/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	143	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,310	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	24,600	5.0	mg/kg	
Lead	22.6	0.5	mg/kg	
Magnesium	3,880	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	22.7	0.5	mg/kg	
Potassium	1,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,810	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/13/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.7	1.0	mg/kg	
Zinc	71.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.71		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/11/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.0	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 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.019	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.099	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.108	0.005	mg/L	
Iron	105	0.1	mg/L	
Lead	0.114	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:30

Sample ID: 3496-53-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-002

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 91.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 86.6	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 93.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 104.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 95	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	78.32		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

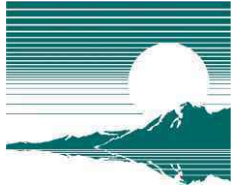
Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	106	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,100	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	24,200	5.0	mg/kg	
Lead	28.8	0.5	mg/kg	
Magnesium	3,600	50	mg/kg	
Manganese	412	0.5	mg/kg	
Nickel	20.0	0.5	mg/kg	
Potassium	1,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,800	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.4	1.0	mg/kg	
Zinc	72.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.027	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.131	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	140	0.1	mg/L	
Lead	0.085	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	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:34

Sample ID: 3496-53-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-003

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 92.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	79.40		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	120	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,370	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	24,500	5.0	mg/kg	
Lead	28.4	0.5	mg/kg	
Magnesium	3,140	50	mg/kg	
Manganese	626	0.5	mg/kg	
Nickel	20.8	0.5	mg/kg	
Potassium	1,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,020	50	mg/kg	



Analytical Report

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Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	33.0	1.0	mg/kg	
Zinc	67.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.36		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	3.1	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	11.4	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 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
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	0.034	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	32.4	0.1	mg/L	
Lead	0.033	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:01

Sample ID: 3496-53-04 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-004

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 85.8	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 74.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 73	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:38

Sample ID: 3496-55-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	76.52		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:38

Sample ID: 3496-55-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/11/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	279	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	



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Sample ID: 3496-55-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	644	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	



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Sample ID: 3496-55-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	497	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: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	98.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,300	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	16.1	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	21.8	0.5	mg/kg	
Magnesium	7,870	50	mg/kg	
Manganese	338	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	380	50	mg/kg	



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Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/10/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.1	1.0	mg/kg	
Zinc	55.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.74		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/11/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 9:38

Sample ID: 3496-55-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
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	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.053	0.005	mg/L	
Iron	77.6	0.1	mg/L	
Lead	0.038	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-006

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 86.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 80.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 90.2	50 - 100	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-56-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-007

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	77.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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 Received: 02/04/20

Sample No: 20-0635-007

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	97.9	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,960	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	18.5	0.5	mg/kg	
Magnesium	4,500	50	mg/kg	
Manganese	194	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,640	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.6	1.0	mg/kg	
Zinc	69.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.42		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/13/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-56-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-007

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
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	0.139	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.088	0.005	mg/L	
Iron	116	0.1	mg/L	
Lead	0.045	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:45

Sample ID: 3496-56-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-007

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 99.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	80.29		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/18/20				
Preparation Date: 02/12/20				
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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	135	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,280	50	mg/kg	
Chromium	22.2	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	29.7	0.5	mg/kg	
Magnesium	4,420	50	mg/kg	
Manganese	359	0.5	mg/kg	
Nickel	22.3	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,100	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

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Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 02/14/20		Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.2	1.0	mg/kg	
Zinc	74.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 02/07/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 02/12/20 7:30				
pH @ 25°C, 1:2	7.70		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 02/06/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.8	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	9.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.013	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.050	0.010	mg/L	
Barium	1.5	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.218	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.211	0.005	mg/L	
Iron	227	0.1	mg/L	
Lead	0.252	0.005	mg/L	
Manganese	3.6	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	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 9:52

Sample ID: 3496-56-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-009

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 79.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 104.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 90.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	79.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	108	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,060	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	26.3	0.5	mg/kg	
Magnesium	3,070	50	mg/kg	
Manganese	368	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,690	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/10/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.7	1.0	mg/kg	
Zinc	55.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.43		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/12/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	10.0	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 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
Arsenic	0.029	0.010	mg/L	
Barium	1.1	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	0.141	0.005	mg/L	
Iron	136	0.1	mg/L	
Lead	0.155	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:10

Sample ID: 3496-59-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-011

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 107.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 93.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-18 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-18 (0-2)

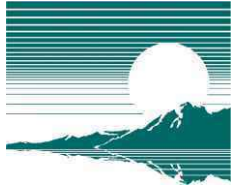
Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/14/20				
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:00

Sample ID: 3496-DUP-18 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	141	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,560	50	mg/kg	
Chromium	24.7	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	15.8	0.5	mg/kg	
Iron	27,300	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	4,810	50	mg/kg	
Manganese	202	0.5	mg/kg	
Nickel	24.1	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,020	50	mg/kg	



Analytical Report

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Sample ID: 3496-DUP-18 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.7	1.0	mg/kg	
Zinc	68.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 9:00

Sample ID: 3496-DUP-18 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
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	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	60.9	0.1	mg/L	
Lead	0.022	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

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Date Received: 02/04/20

Sample No: 20-0635-055

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 56	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 54.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:17

Sample ID: 3496-61-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	79.07		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-61-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



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Sample ID: 3496-61-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-61-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.3	1.0	mg/kg	
Barium	184	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,100	50	mg/kg	
Chromium	29.2	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	31,200	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	5,690	50	mg/kg	
Manganese	216	0.5	mg/kg	
Nickel	33.3	0.5	mg/kg	
Potassium	1,720	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.0	0.2	mg/kg	
Sodium	2,940	50	mg/kg	



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Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	42.5	1.0	mg/kg	
Zinc	72.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.14		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 10:17

Sample ID: 3496-61-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.052	0.010	mg/L	
Barium	2.0	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.321	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.230	0.005	mg/L	
Iron	268	0.1	mg/L	
Lead	0.110	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	0.010	0.005	mg/L	
Zinc	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	0.0006	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-013

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 101.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 88.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 71.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 93	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-61-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	83.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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 Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



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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: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	78.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,400	50	mg/kg	
Chromium	20.5	0.5	mg/kg	
Cobalt	13.6	0.5	mg/kg	
Copper	27.5	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	23,500	50	mg/kg	
Manganese	473	0.5	mg/kg	
Nickel	33.3	0.5	mg/kg	
Potassium	1,990	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,370	50	mg/kg	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-61-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/10/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.9	1.0	mg/kg	
Zinc	57.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.75		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/12/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	12.1	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 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-61-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.109	0.010	mg/L	
Barium	1.9	1.0	mg/L	
Beryllium	0.012	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.361	0.005	mg/L	
Cobalt	0.2	0.1	mg/L	
Copper	0.428	0.005	mg/L	
Iron	340	0.1	mg/L	
Lead	0.159	0.005	mg/L	
Manganese	4.9	0.1	mg/L	
Nickel	0.5	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.012	0.005	mg/L	
Zinc	0.8	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:22

Sample ID: 3496-61-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-014

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 95.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 85.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:37

Sample ID: 3496-63-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	81.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:37

Sample ID: 3496-63-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	



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Sample ID: 3496-63-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-63-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	10,000	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	58.3	0.5	mg/kg	
Magnesium	6,360	50	mg/kg	
Manganese	511	0.5	mg/kg	
Nickel	21.3	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,410	50	mg/kg	



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Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 02/14/20		Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.4	1.0	mg/kg	
Zinc	99.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 02/07/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 02/12/20 7:30				
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 02/06/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:37

Sample ID: 3496-63-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.067	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.256	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.254	0.005	mg/L	
Iron	246	0.1	mg/L	
Lead	0.247	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	0.009	0.005	mg/L	
Zinc	1.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	0.0006	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-017

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 89	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	78.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	107	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,510	50	mg/kg	
Chromium	19.7	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	20.5	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	22.0	0.5	mg/kg	
Magnesium	3,760	50	mg/kg	
Manganese	423	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,680	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,450	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/10/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.7	1.0	mg/kg	
Zinc	58.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.25		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/12/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.120	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.087	0.005	mg/L	
Iron	99.3	0.1	mg/L	
Lead	0.074	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-63-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-018

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 91.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 74.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 101.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 92.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:43

Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	76.15		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 10:43

Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	157	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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:43

Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	72.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,740	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	16,700	5.0	mg/kg	
Lead	23.2	0.5	mg/kg	
Magnesium	3,200	50	mg/kg	
Manganese	293	0.5	mg/kg	
Nickel	16.6	0.5	mg/kg	
Potassium	1,520	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,170	50	mg/kg	



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Date Received: 02/04/20

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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/10/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	23.5	1.0	mg/kg	
Zinc	52.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/12/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:43

Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.110	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.080	0.005	mg/L	
Iron	92.2	0.1	mg/L	
Lead	0.072	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

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Sample ID: 3496-64-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-019

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	84.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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	7.4	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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.3	1.0	mg/kg	
Barium	69.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	31,700	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	12.9	0.5	mg/kg	
Copper	31.0	0.5	mg/kg	
Iron	23,900	5.0	mg/kg	
Lead	18.0	0.5	mg/kg	
Magnesium	21,600	50	mg/kg	
Manganese	589	0.5	mg/kg	
Nickel	34.2	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,650	50	mg/kg	



Analytical Report

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Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.8	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.53		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	8.0	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 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.064	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.186	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.236	0.005	mg/L	
Iron	182	0.1	mg/L	
Lead	0.094	0.005	mg/L	
Manganese	2.1	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:47

Sample ID: 3496-64-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-020

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 80.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 101	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 92.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 85.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total Method: 2540B

Analysis Date: 02/05/20

Total Solids	80.75		%	
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Volatile Organic Compounds Method: 5035A/8260B

Analysis Date: 02/10/20

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

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	



Analytical Report

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Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	41.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	101,000	50	mg/kg	
Chromium	13.9	0.5	mg/kg	
Cobalt	4.5	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	11,600	5.0	mg/kg	
Lead	30.9	0.5	mg/kg	
Magnesium	62,700	50	mg/kg	
Manganese	356	0.5	mg/kg	
Nickel	11.6	0.5	mg/kg	
Potassium	1,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,750	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	17.8	1.0	mg/kg	
Zinc	70.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
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	0.041	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	29.4	0.1	mg/L	
Lead	0.091	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: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:51

Sample ID: 3496-65-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-021

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 90.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 75.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 99.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 02/06/20

Total Solids	79.71		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 02/10/20

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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/17/20				
Preparation Date: 02/12/20				
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	266	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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	98.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,710	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	17.0	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	24.3	0.5	mg/kg	
Magnesium	3,480	50	mg/kg	
Manganese	517	0.5	mg/kg	
Nickel	19.0	0.5	mg/kg	
Potassium	1,590	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,120	50	mg/kg	



Analytical Report

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Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.9	1.0	mg/kg	
Zinc	51.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.64		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.029	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.183	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.142	0.005	mg/L	
Iron	164	0.1	mg/L	
Lead	0.075	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	0.006	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:55

Sample ID: 3496-66-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-022

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 92.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	82.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.8	1.0	mg/kg	
Barium	134	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,480	50	mg/kg	
Chromium	29.6	0.5	mg/kg	
Cobalt	13.5	0.5	mg/kg	
Copper	30.2	0.5	mg/kg	
Iron	29,600	5.0	mg/kg	
Lead	17.0	0.5	mg/kg	
Magnesium	6,520	50	mg/kg	
Manganese	262	0.5	mg/kg	
Nickel	35.8	0.5	mg/kg	
Potassium	2,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.1	0.2	mg/kg	
Sodium	2,080	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.1	1.0	mg/kg	
Zinc	64.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	6.0	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 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	90.8	0.1	mg/L	
Lead	0.038	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-66-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-023

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 75.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91	35 - 105	
8270C	Phenol-d5 (surr)	%R: 84.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	82.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

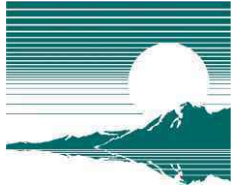
Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/14/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/03/20

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Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

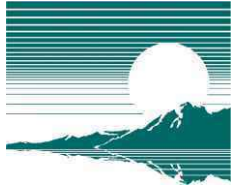
Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20		Preparation Date: 02/14/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20		Preparation Date: 02/13/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	64.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	44,900	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	32.5	0.5	mg/kg	
Iron	27,200	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	21,800	50	mg/kg	
Manganese	373	0.5	mg/kg	
Nickel	29.3	0.5	mg/kg	
Potassium	2,390	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,860	50	mg/kg	



Analytical Report

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Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/17/20		Preparation Method 3050B		
		Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.9	1.0	mg/kg	
Zinc	58.0	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/13/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/13/20				
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/10/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.081	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.078	0.005	mg/L	
Iron	87.6	0.1	mg/L	
Lead	0.044	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496 DUP-20 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-057

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 71.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	84.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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	5.1	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/14/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	88.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,600	50	mg/kg	
Chromium	21.4	0.5	mg/kg	
Cobalt	10.4	0.5	mg/kg	
Copper	23.1	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	24,000	50	mg/kg	
Manganese	491	0.5	mg/kg	
Nickel	29.7	0.5	mg/kg	
Potassium	2,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	1,470	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.3	1.0	mg/kg	
Zinc	47.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.8	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: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.018	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	0.060	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	70.8	0.1	mg/L	
Lead	0.021	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:15

Sample ID: 3496-DUP-21 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-058

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 60.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 54	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 61.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	76.71		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/14/20				
Preparation Date: 02/12/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	122	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,030	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	10.2	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	24.3	0.5	mg/kg	
Magnesium	3,790	50	mg/kg	
Manganese	443	0.5	mg/kg	
Nickel	21.8	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,450	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.4	1.0	mg/kg	
Zinc	64.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.38		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.2	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	3.6	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: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
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	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	19.8	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: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:04

Sample ID: 3496-68-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-025

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 96.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	77.52		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	6.8	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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	226	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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	468	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	



Analytical Report

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Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	410	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: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,540	50	mg/kg	
Chromium	19.0	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	19.1	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	19.4	0.5	mg/kg	
Magnesium	3,180	50	mg/kg	
Manganese	385	0.5	mg/kg	
Nickel	19.0	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,370	50	mg/kg	



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Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/12/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.2	1.0	mg/kg	
Zinc	59.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.76		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.6	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	8.8	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: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.019	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.108	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.096	0.005	mg/L	
Iron	95.3	0.1	mg/L	
Lead	0.073	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 11:09

Sample ID: 3496-68-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-026

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 67.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 93.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	81.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	191	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	129	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,330	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	21.6	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	29.1	0.5	mg/kg	
Magnesium	4,040	50	mg/kg	
Manganese	325	0.5	mg/kg	
Nickel	21.8	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,540	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.6	1.0	mg/kg	
Zinc	66.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.90		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.4	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	3.9	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: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.039	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.165	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.172	0.005	mg/L	
Iron	167	0.1	mg/L	
Lead	0.113	0.005	mg/L	
Manganese	3.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 11:15

Sample ID: 3496-70-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-028

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 93	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67	50 - 100	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-72-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-029

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	79.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 3496-72-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-029

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	



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Sample No: 20-0635-029

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.1	1.0	mg/kg	
Barium	127	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,890	50	mg/kg	
Chromium	26.3	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	29.8	0.5	mg/kg	
Iron	29,700	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	5,310	50	mg/kg	
Manganese	367	0.5	mg/kg	
Nickel	39.7	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.1	0.2	mg/kg	
Sodium	2,330	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.9	1.0	mg/kg	
Zinc	60.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.20		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.8	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: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-029

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.128	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.113	0.005	mg/L	
Iron	122	0.1	mg/L	
Lead	0.036	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-72-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-029

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.9	50 - 100	



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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-74-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	82.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 3496-74-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	339	90	ug/kg	
Benzo(b)fluoranthene	368	330	ug/kg	
Benzo(k)fluoranthene	355	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	



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Sample ID: 3496-74-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	592	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	



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Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	575	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: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	86.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,810	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	14.2	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	24,500	5.0	mg/kg	
Lead	57.0	0.5	mg/kg	
Magnesium	5,730	50	mg/kg	
Manganese	419	0.5	mg/kg	
Nickel	24.6	0.5	mg/kg	
Potassium	1,910	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.0	0.2	mg/kg	
Sodium	2,040	50	mg/kg	



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Date Received: 02/04/20

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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.6	1.0	mg/kg	
Zinc	91.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.99		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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 Analysis Date: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	0.038	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	0.153	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.124	0.005	mg/L	
Iron	139	0.1	mg/L	
Lead	0.118	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-031

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 80.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 49.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	80.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/17/20				
Preparation Date: 02/14/20				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	



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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/14/20
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	72.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	11,700	50	mg/kg	
Chromium	24.9	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	130	0.5	mg/kg	
Magnesium	8,240	50	mg/kg	
Manganese	400	0.5	mg/kg	
Nickel	20.3	0.5	mg/kg	
Potassium	1,970	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,850	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/13/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.5	1.0	mg/kg	
Zinc	457	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.94		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/14/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.067	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.237	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.222	0.005	mg/L	
Iron	261	0.1	mg/L	
Lead	0.096	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-DUP-22 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-059

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 93.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	80.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,540	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	18.0	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	16.0	0.5	mg/kg	
Magnesium	3,240	50	mg/kg	
Manganese	432	0.5	mg/kg	
Nickel	19.6	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,630	50	mg/kg	



Analytical Report

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Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/12/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.4	1.0	mg/kg	
Zinc	58.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.84		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/13/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.6	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: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.020	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	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.092	0.005	mg/L	
Iron	75.5	0.1	mg/L	
Lead	0.045	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: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:46

Sample ID: 3496-75-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-034

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:35

Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 02/07/20

Total Solids	83.21		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 02/11/20

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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:35

Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/14/20				
Preparation Date: 02/13/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:35

Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	82.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,680	50	mg/kg	
Chromium	19.2	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	19.2	0.5	mg/kg	
Iron	22,400	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	4,250	50	mg/kg	
Manganese	433	0.5	mg/kg	
Nickel	22.4	0.5	mg/kg	
Potassium	1,500	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,130	50	mg/kg	



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Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.5	1.0	mg/kg	
Zinc	52.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 11:35

Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.036	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.158	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.130	0.005	mg/L	
Iron	166	0.1	mg/L	
Lead	0.077	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	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-76-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-037

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 48	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.4	50 - 100	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:58

Sample ID: 3496-76-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-043

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	80.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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 Received: 02/04/20

Sample No: 20-0635-043

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	



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Sample No: 20-0635-043

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.8	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,190	50	mg/kg	
Chromium	22.4	0.5	mg/kg	
Cobalt	11.1	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	25,500	5.0	mg/kg	
Lead	22.5	0.5	mg/kg	
Magnesium	7,390	50	mg/kg	
Manganese	345	0.5	mg/kg	
Nickel	28.0	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,480	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.0	1.0	mg/kg	
Zinc	64.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-043

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.115	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.090	0.005	mg/L	
Iron	114	0.1	mg/L	
Lead	0.040	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:58

Sample ID: 3496-76-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-043

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	79.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/17/20				
Preparation Date: 02/13/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.4	1.0	mg/kg	
Barium	133	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,390	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	34.7	0.5	mg/kg	
Iron	33,600	5.0	mg/kg	
Lead	23.2	0.5	mg/kg	
Magnesium	4,310	50	mg/kg	
Manganese	621	0.5	mg/kg	
Nickel	41.0	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,440	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/13/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.8	1.0	mg/kg	
Zinc	74.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.82		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.020	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.085	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.082	0.005	mg/L	
Iron	85.8	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:01

Sample ID: 3496-77-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-046

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 75.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.1	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	73.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/18/20				
Preparation Date: 02/14/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	828	330	ug/kg	
Benzo(a)pyrene	782	90	ug/kg	
Benzo(b)fluoranthene	720	330	ug/kg	
Benzo(k)fluoranthene	668	330	ug/kg	
Benzo(ghi)perylene	479	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	993	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	112	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	1,420	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	457	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,450	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: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	138	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,370	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	22.6	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	4,050	50	mg/kg	
Manganese	612	0.5	mg/kg	
Nickel	22.8	0.5	mg/kg	
Potassium	2,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,070	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.8	1.0	mg/kg	
Zinc	66.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.42		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/13/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.012	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	8.9	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: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.018	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	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.094	0.005	mg/L	
Iron	96.9	0.1	mg/L	
Lead	0.069	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:05

Sample ID: 3496-77-02 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-047

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 70	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	77.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/18/20				
Preparation Date: 02/14/20				
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	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	102	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	16,000	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	18.9	0.5	mg/kg	
Magnesium	9,050	50	mg/kg	
Manganese	533	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	2,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,870	50	mg/kg	



Analytical Report

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Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.6	1.0	mg/kg	
Zinc	54.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	10.4	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 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.013	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	0.058	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	58.1	0.1	mg/L	
Lead	0.034	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	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:08

Sample ID: 3496-77-03 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-048

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	82.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-78-01 (0-2)

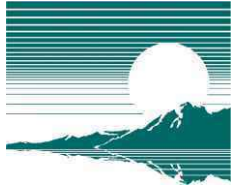
Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/14/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:30

Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	68.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,800	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	18.8	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	47.7	0.5	mg/kg	
Magnesium	7,170	50	mg/kg	
Manganese	299	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,940	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,290	50	mg/kg	



Analytical Report

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Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.1	1.0	mg/kg	
Zinc	67.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	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: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 13:30

Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.021	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.086	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	84.3	0.1	mg/L	
Lead	0.235	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-78-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-050

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 51.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 77.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:26

Sample ID: 3496-79-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	82.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 3496-79-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/18/20				
Preparation Date: 02/14/20				
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	



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Time Collected: 13:26

Sample ID: 3496-79-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 13:26

Sample ID: 3496-79-01 (0-2)

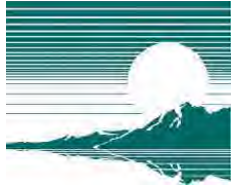
Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	92.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	21,900	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	23,500	5.0	mg/kg	
Lead	75.1	0.5	mg/kg	
Magnesium	13,600	50	mg/kg	
Manganese	622	0.5	mg/kg	
Nickel	22.7	0.5	mg/kg	
Potassium	2,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,080	50	mg/kg	



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Date Received: 02/04/20

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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/17/20		Preparation Method 3050B		
		Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.3	1.0	mg/kg	
Zinc	82.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/13/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/13/20				
pH @ 25°C, 1:2	7.85		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/10/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	8.4	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.027	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.089	0.005	mg/L	
Iron	84.8	0.1	mg/L	
Lead	0.044	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:26

Sample ID: 3496-79-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-051

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 68.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.8	50 - 100	



February 20, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0676
Date Received: February 05, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	79.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/17/20				
Preparation Date: 02/14/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	12.0	1.0	mg/kg	
Barium	95.9	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,080	50	mg/kg	
Chromium	30.1	0.5	mg/kg	
Cobalt	15.3	0.5	mg/kg	
Copper	37.7	0.5	mg/kg	
Iron	36,800	5.0	mg/kg	
Lead	18.9	0.5	mg/kg	
Magnesium	5,940	50	mg/kg	
Manganese	522	0.5	mg/kg	
Nickel	42.8	0.5	mg/kg	
Potassium	2,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	1,480	50	mg/kg	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	36.8	1.0	mg/kg	
Zinc	70.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.058	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.222	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.246	0.005	mg/L	
Iron	244	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.006	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:25

Sample ID: 3496-51-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-001

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	76.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/17/20				
Preparation Date: 02/14/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20		Preparation Date: 02/13/20		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,910	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	5.2	0.5	mg/kg	
Copper	11.4	0.5	mg/kg	
Iron	24,000	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	4,600	50	mg/kg	
Manganese	287	0.5	mg/kg	
Nickel	19.8	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,020	50	mg/kg	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/13/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.9	1.0	mg/kg	
Zinc	62.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.91		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/10/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/18/20 Preparation Date: 02/17/20				
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	0.092	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	82.8	0.1	mg/L	
Lead	0.027	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:20

Sample ID: 3496-54-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-002

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 53.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 71.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	74.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/17/20				
Preparation Date: 02/14/20				
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.2	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	242	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	72,700	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	16,500	5.0	mg/kg	
Lead	48.9	0.5	mg/kg	
Magnesium	44,100	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	14.7	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	2,000	50	mg/kg	



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Time Collected: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/19/20		Preparation Method 3050B		
		Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.3	1.0	mg/kg	
Zinc	58.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/17/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/13/20				
pH @ 25°C, 1:2	7.80		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/10/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/19/20		Preparation Method 3010A		
		Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	0.008	0.005	mg/L	
Manganese	5.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
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	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.033	0.005	mg/L	
Iron	26.8	0.1	mg/L	
Lead	0.044	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-54-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-004

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 72.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 66.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/17/20				
Preparation Date: 02/14/20				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/14/20
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.4	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	92.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,600	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	43.6	0.5	mg/kg	
Magnesium	7,230	50	mg/kg	
Manganese	325	0.5	mg/kg	
Nickel	16.2	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,850	50	mg/kg	



Analytical Report

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Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	25.7	1.0	mg/kg	
Zinc	65.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.40		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
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	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	47.4	0.1	mg/L	
Lead	0.036	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 11:10

Sample ID: 3496-54-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-005

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 117.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 68.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.6	50 - 100	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-54-05 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.14		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 11:05

Sample ID: 3496-54-05 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	



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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-54-05 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	2.1	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,230	50	mg/kg	
Chromium	26.8	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	28.8	0.5	mg/kg	
Iron	31,500	5.0	mg/kg	
Lead	20.0	0.5	mg/kg	
Magnesium	5,130	50	mg/kg	
Manganese	400	0.5	mg/kg	
Nickel	38.1	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.2	0.2	mg/kg	
Sodium	1,980	50	mg/kg	



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Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.9	1.0	mg/kg	
Zinc	67.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.12		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/14/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-54-05 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.104	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.099	0.005	mg/L	
Iron	111	0.1	mg/L	
Lead	0.021	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:05

Sample ID: 3496-54-05 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-006

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 84.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 53.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 67.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 59.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	83.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/19/20				
Preparation Date: 02/17/20				
Acenaphthene	< 1,650	330	ug/kg	
Acenaphthylene	< 1,650	330	ug/kg	
Anthracene	< 1,650	330	ug/kg	
Benzidine	< 1,650	330	ug/kg	
Benzo(a)anthracene	515	330	ug/kg	
Benzo(a)pyrene	676	90	ug/kg	
Benzo(b)fluoranthene	670	330	ug/kg	
Benzo(k)fluoranthene	867	330	ug/kg	
Benzo(ghi)perylene	383	330	ug/kg	
Benzoic acid	< 1,650	330	ug/kg	
Benzyl alcohol	< 1,650	330	ug/kg	
bis(2-Chloroethoxy)methane	< 1,650	330	ug/kg	
bis(2-Chloroethyl)ether	< 1,650	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 1,650	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 1,650	330	ug/kg	
4-Bromophenyl phenyl ether	< 1,650	330	ug/kg	
Butyl benzyl phthalate	< 1,650	330	ug/kg	
Carbazole	< 1,650	330	ug/kg	
4-Chloroaniline	< 1,650	330	ug/kg	
4-Chloro-3-methylphenol	< 1,650	330	ug/kg	
2-Chloronaphthalene	< 1,650	330	ug/kg	
2-Chlorophenol	< 1,650	330	ug/kg	
4-Chlorophenyl phenyl ether	< 1,650	330	ug/kg	
Chrysene	574	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 450	90	ug/kg	
Dibenzofuran	< 1,650	330	ug/kg	
1,2-Dichlorobenzene	< 1,650	330	ug/kg	
1,3-Dichlorobenzene	< 1,650	330	ug/kg	
1,4-Dichlorobenzene	< 1,650	330	ug/kg	
3,3'-Dichlorobenzidine	< 3,300	660	ug/kg	
2,4-Dichlorophenol	< 1,650	330	ug/kg	
Diethyl phthalate	< 1,650	330	ug/kg	
2,4-Dimethylphenol	< 1,650	330	ug/kg	
Dimethyl phthalate	< 1,650	330	ug/kg	
Di-n-butyl phthalate	< 1,650	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 8,000	1600	ug/kg	
2,4-Dinitrophenol	< 8,000	1600	ug/kg	
2,4-Dinitrotoluene	< 1,250	250	ug/kg	
2,6-Dinitrotoluene	< 1,300	260	ug/kg	
Di-n-octylphthalate	< 1,650	330	ug/kg	
Fluoranthene	1,090	330	ug/kg	
Fluorene	< 1,650	330	ug/kg	
Hexachlorobenzene	< 1,650	330	ug/kg	
Hexachlorobutadiene	< 1,650	330	ug/kg	
Hexachlorocyclopentadiene	< 1,650	330	ug/kg	
Hexachloroethane	< 1,650	330	ug/kg	
Indeno(1,2,3-cd)pyrene	375	330	ug/kg	
Isophorone	< 1,650	330	ug/kg	
2-Methylnaphthalene	< 1,650	330	ug/kg	
2-Methylphenol	< 1,650	330	ug/kg	
3 & 4-Methylphenol	< 1,650	330	ug/kg	
Naphthalene	< 1,650	330	ug/kg	
2-Nitroaniline	< 8,000	1600	ug/kg	
3-Nitroaniline	< 8,000	1600	ug/kg	
4-Nitroaniline	< 8,000	1600	ug/kg	
Nitrobenzene	< 1,300	260	ug/kg	
2-Nitrophenol	< 8,000	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 8,000	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 450	90	ug/kg	
n-Nitrosodimethylamine	< 1,650	330	ug/kg	
n-Nitrosodiphenylamine	< 1,650	330	ug/kg	
Pentachlorophenol	< 1,650	330	ug/kg	
Phenanthrene	348	330	ug/kg	
Phenol	< 1,650	330	ug/kg	
Pyrene	1,080	330	ug/kg	
Pyridine	< 1,650	330	ug/kg	
1,2,4-Trichlorobenzene	< 1,650	330	ug/kg	
2,4,5-Trichlorophenol	< 1,650	330	ug/kg	
2,4,6-Trichlorophenol	< 1,650	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	39.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	90,800	50	mg/kg	
Chromium	10.7	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	12.6	0.5	mg/kg	
Iron	8,980	5.0	mg/kg	
Lead	51.1	0.5	mg/kg	
Magnesium	54,400	50	mg/kg	
Manganese	473	0.5	mg/kg	
Nickel	9.5	0.5	mg/kg	
Potassium	960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	2,480	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	12.3	1.0	mg/kg	
Zinc	49.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.89		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	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: 02/14/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.6	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:02

Sample ID: 3496-54-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-007

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 76.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 85.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 104.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 83.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/19/20				
Preparation Date: 02/17/20				
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	107	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.2	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	81.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	31,300	50	mg/kg	
Chromium	18.4	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	18.0	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	47.6	0.5	mg/kg	
Magnesium	19,800	50	mg/kg	
Manganese	465	0.5	mg/kg	
Nickel	18.2	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,080	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.2	1.0	mg/kg	
Zinc	64.2	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.20		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	3.7	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 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.012	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	51.1	0.1	mg/L	
Lead	0.080	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:00

Sample ID: 3496-58-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-008

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.7	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	277	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,650	50	mg/kg	
Chromium	25.4	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	25.5	0.5	mg/kg	
Iron	25,000	5.0	mg/kg	
Lead	15.1	0.5	mg/kg	
Magnesium	8,820	50	mg/kg	
Manganese	219	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	1,990	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.8	1.0	mg/kg	
Zinc	56.5	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.25		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 02/10/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/18/20 Preparation Date: 02/17/20				
Arsenic	0.033	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.174	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.112	0.005	mg/L	
Iron	170	0.1	mg/L	
Lead	0.058	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:42

Sample ID: 3496-60-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-011

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	83.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:31

Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.9	1.0	mg/kg	
Arsenic	11.8	1.0	mg/kg	
Barium	73.3	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	36,400	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	16.5	0.5	mg/kg	
Copper	39.1	0.5	mg/kg	
Iron	27,800	5.0	mg/kg	
Lead	20.7	0.5	mg/kg	
Magnesium	24,800	50	mg/kg	
Manganese	505	0.5	mg/kg	
Nickel	36.9	0.5	mg/kg	
Potassium	2,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.0	0.2	mg/kg	
Sodium	1,480	50	mg/kg	



Analytical Report

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Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.5	1.0	mg/kg	
Zinc	60.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.84		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	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: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:31

Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.133	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.128	0.005	mg/L	
Iron	135	0.1	mg/L	
Lead	0.054	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.006	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 3496-60-04 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-013

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 68.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-26 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	77.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-26 (0-2)

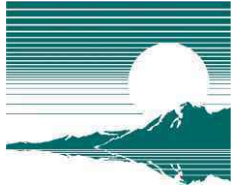
Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



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Sample ID: 3496-DUP-26 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	1.1	1.0	mg/kg	
Arsenic	12.7	1.0	mg/kg	
Barium	114	0.5	mg/kg	
Beryllium	1.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,590	50	mg/kg	
Chromium	30.6	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	34.0	0.5	mg/kg	
Iron	40,200	5.0	mg/kg	
Lead	18.8	0.5	mg/kg	
Magnesium	5,530	50	mg/kg	
Manganese	249	0.5	mg/kg	
Nickel	35.3	0.5	mg/kg	
Potassium	2,260	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,380	50	mg/kg	



Analytical Report

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Time Collected: 9:10

Sample ID: 3496-DUP-26 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/17/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	44.3	1.0	mg/kg	
Zinc	78.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	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 Analysis Date: 02/17/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-26 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.043	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.188	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.172	0.005	mg/L	
Iron	184	0.1	mg/L	
Lead	0.048	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:10

Sample ID: 3496-DUP-26 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-034

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 108.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 79.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 64.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	79.81		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/19/20				
Preparation Date: 02/17/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20		Preparation Date: 02/14/20		
Antimony	1.4	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	90.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,560	50	mg/kg	
Chromium	18.4	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	20,700	5.0	mg/kg	
Lead	16.5	0.5	mg/kg	
Magnesium	3,280	50	mg/kg	
Manganese	266	0.5	mg/kg	
Nickel	19.1	0.5	mg/kg	
Potassium	1,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,850	50	mg/kg	



Analytical Report

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Date Collected: 02/04/20

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Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.5	1.0	mg/kg	
Zinc	47.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.81		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
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	0.088	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	83.2	0.1	mg/L	
Lead	0.038	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: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/04/20

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Time Collected: 10:23

Sample ID: 3496-60-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-015

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.1	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	78.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.2	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	92.0	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,600	50	mg/kg	
Chromium	21.5	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	52.6	0.5	mg/kg	
Magnesium	8,550	50	mg/kg	
Manganese	224	0.5	mg/kg	
Nickel	22.5	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	1,890	50	mg/kg	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.1	1.0	mg/kg	
Zinc	76.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.008	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 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.069	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.064	0.005	mg/L	
Iron	64.1	0.1	mg/L	
Lead	0.135	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:16

Sample ID: 3496-60-07 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-016

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 58.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 66.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:05

Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	79.09		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:05

Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	



Analytical Report

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Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.4	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	111	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,060	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	18.8	0.5	mg/kg	
Magnesium	4,140	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	21.4	0.5	mg/kg	
Potassium	1,840	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	1,860	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 02/04/20
Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected: 10:05
Sample ID: 3496-67-01 (0-2)	Date Received: 02/05/20
Sample No: 20-0676-019	Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/19/20		Preparation Method 3050B		
		Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.1	1.0	mg/kg	
Zinc	53.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/17/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/13/20				
pH @ 25°C, 1:2	7.91		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/10/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20				Preparation Date: 02/17/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 10:05

Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.020	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	0.112	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.106	0.005	mg/L	
Iron	111	0.1	mg/L	
Lead	0.063	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: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:05

Sample ID: 3496-67-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-019

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 83.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 65.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 53.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 71	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	80.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/18/20				
Preparation Date: 02/17/20				
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	201	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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20		Preparation Date: 02/14/20		
Antimony	1.8	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	116	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,010	50	mg/kg	
Chromium	21.4	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	25,800	5.0	mg/kg	
Lead	20.7	0.5	mg/kg	
Magnesium	4,760	50	mg/kg	
Manganese	528	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	1.0	0.2	mg/kg	
Sodium	2,490	50	mg/kg	



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Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/14/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.9	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	7.93		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/17/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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 Analysis Date: 02/17/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.080	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	79.5	0.1	mg/L	
Lead	0.032	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 10:02

Sample ID: 3496-67-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-020

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 49.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 78	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-69-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-021

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	76.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 9:58

Sample ID: 3496-69-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-021

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/19/20				
Preparation Date: 02/17/20				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	



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Sample ID: 3496-69-01 (0-2)

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Sample No: 20-0676-021

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	



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Date Received: 02/05/20

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Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.5	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	97.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,080	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	31.4	0.5	mg/kg	
Magnesium	4,310	50	mg/kg	
Manganese	551	0.5	mg/kg	
Nickel	21.1	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,850	50	mg/kg	



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Date Received: 02/05/20

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Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.0	1.0	mg/kg	
Zinc	66.0	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.25		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	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 Analysis Date: 02/17/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-69-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-021

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.032	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.138	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.124	0.005	mg/L	
Iron	142	0.1	mg/L	
Lead	0.061	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	0.006	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:58

Sample ID: 3496-69-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-021

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 81.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 73.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 56.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 90.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	82.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/19/20				
Preparation Date: 02/17/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

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Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.5	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	93.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,190	50	mg/kg	
Chromium	18.8	0.5	mg/kg	
Cobalt	10.2	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	22.0	0.5	mg/kg	
Magnesium	3,520	50	mg/kg	
Manganese	441	0.5	mg/kg	
Nickel	20.0	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,000	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/14/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.4	1.0	mg/kg	
Zinc	49.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/18/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/17/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:55

Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.064	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.217	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.209	0.005	mg/L	
Iron	227	0.1	mg/L	
Lead	0.102	0.005	mg/L	
Manganese	1.2	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.009	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 3496-69-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-022

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 75.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 57	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	81.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/19/20				
Preparation Date: 02/17/20				
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	679	330	ug/kg	
Benzo(a)pyrene	1,040	90	ug/kg	
Benzo(b)fluoranthene	1,340	330	ug/kg	
Benzo(k)fluoranthene	1,140	330	ug/kg	
Benzo(ghi)perylene	506	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	954	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	1,300	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	550	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	351	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	1,340	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/19/20				Preparation Date: 02/14/20
Antimony	1.4	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	46.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,700	50	mg/kg	
Chromium	21.4	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	15.4	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	134	0.5	mg/kg	
Magnesium	35,800	50	mg/kg	
Manganese	396	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	1,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,880	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.2	1.0	mg/kg	
Zinc	67.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.52		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	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: 02/17/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
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	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.040	0.005	mg/L	
Iron	40.6	0.1	mg/L	
Lead	0.195	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:51

Sample ID: 3496-71-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-023

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 90.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 65.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 90.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 75.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	79.01		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



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Sample ID: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	85.8	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	30.1	0.5	mg/kg	
Cobalt	14.8	0.5	mg/kg	
Copper	28.8	0.5	mg/kg	
Iron	34,800	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	6,840	50	mg/kg	
Manganese	378	0.5	mg/kg	
Nickel	41.9	0.5	mg/kg	
Potassium	2,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,970	50	mg/kg	



Analytical Report

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Time Collected: 9:40

Sample ID: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/17/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	36.6	1.0	mg/kg	
Zinc	70.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/17/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.074	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.251	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.262	0.005	mg/L	
Iron	258	0.1	mg/L	
Lead	0.088	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.011	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:40

Sample ID: 3496-75-01 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-026

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:36

Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	79.62		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:36

Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:36

Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:36

Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	1.1	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,740	50	mg/kg	
Chromium	27.0	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	25.6	0.5	mg/kg	
Iron	33,100	5.0	mg/kg	
Lead	19.8	0.5	mg/kg	
Magnesium	5,550	50	mg/kg	
Manganese	438	0.5	mg/kg	
Nickel	31.1	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	2,290	50	mg/kg	



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Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/17/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	37.7	1.0	mg/kg	
Zinc	65.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/18/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/17/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:36

Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.056	0.010	mg/L	
Barium	1.2	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.273	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.237	0.005	mg/L	
Iron	273	0.1	mg/L	
Lead	0.085	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.011	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Sample ID: 3496-75-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-027

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 58.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75	35 - 105	
8270C	Phenol-d5 (surr)	%R: 63.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	83.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	119	0.5	mg/kg	
Beryllium	1.2	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,830	50	mg/kg	
Chromium	23.3	0.5	mg/kg	
Cobalt	13.3	0.5	mg/kg	
Copper	24.2	0.5	mg/kg	
Iron	31,200	5.0	mg/kg	
Lead	21.8	0.5	mg/kg	
Magnesium	6,140	50	mg/kg	
Manganese	605	0.5	mg/kg	
Nickel	28.8	0.5	mg/kg	
Potassium	1,880	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,580	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.4	1.0	mg/kg	
Zinc	69.9	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/17/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/13/20				
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/10/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20				Preparation Date: 02/18/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.044	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.167	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.156	0.005	mg/L	
Iron	178	0.1	mg/L	
Lead	0.093	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.007	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:31

Sample ID: 3496-75-03 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-028

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 69.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 72.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 85.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 71.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	79.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

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Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	13.0	1.0	mg/kg	
Barium	119	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,010	50	mg/kg	
Chromium	24.6	0.5	mg/kg	
Cobalt	20.3	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	36,400	5.0	mg/kg	
Lead	22.7	0.5	mg/kg	
Magnesium	4,440	50	mg/kg	
Manganese	468	0.5	mg/kg	
Nickel	27.4	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,590	50	mg/kg	



Analytical Report

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Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/17/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	39.1	1.0	mg/kg	
Zinc	57.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.03		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/17/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.062	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.150	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.199	0.005	mg/L	
Iron	192	0.1	mg/L	
Lead	0.053	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	0.007	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:20

Sample ID: 3496-75-06 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-031

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 108.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 60.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 74.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77	35 - 105	
8270C	Phenol-d5 (surr)	%R: 65.4	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/10/20				
Total Solids	78.30		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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	5.3	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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/17/20				
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: 02/19/20				
Preparation Date: 02/18/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/18/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/18/20				Preparation Date: 02/17/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,750	50	mg/kg	
Chromium	28.6	0.5	mg/kg	
Cobalt	15.4	0.5	mg/kg	
Copper	27.6	0.5	mg/kg	
Iron	35,000	5.0	mg/kg	
Lead	19.6	0.5	mg/kg	
Magnesium	7,080	50	mg/kg	
Manganese	583	0.5	mg/kg	
Nickel	38.7	0.5	mg/kg	
Potassium	2,340	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.9	0.2	mg/kg	
Sodium	2,130	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/18/20		Method: 6010C	Preparation Method 3050B Preparation Date: 02/17/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	37.2	1.0	mg/kg	
Zinc	71.1	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Analysis Date: 02/10/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C	Preparation Method 3010A Preparation Date: 02/18/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/17/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/19/20		Preparation Date: 02/18/20		
Arsenic	0.074	0.010	mg/L	
Barium	1.3	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.268	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.245	0.005	mg/L	
Iron	255	0.1	mg/L	
Lead	0.071	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	0.4	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.011	0.005	mg/L	
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/17/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-25 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-033

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 82.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 59.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 52.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 69.1	35 - 105	
8270C	Phenol-d5 (surr)	%R: 58.8	50 - 100	



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: IDOT 178008-036A Monee-Manhattan Rd - PSI Office Phone Number, if available: 847-705-4122

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

3496-58 (10808 W. Monee-Manhattan Rd) and 3496-75 (9700-10200 blocks of W. Monee-Manhattan Rd)

City: Manhattan State: IL Zip Code: 60442

County: Will Township: _____

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

Latitude: 41.42501 Longitude: - 87.91282

(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.): 75

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 Fig 4-1.10 and 4-1.12 in the Final PSI Rpt and borings 3496-58-02 (Monee-Manhattan Rd. Sta. 796+00) and 3496-75-10 (Monee-Manhattan Rd. Sta. 864+00).

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 #20-0635 and #20-0676. 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)

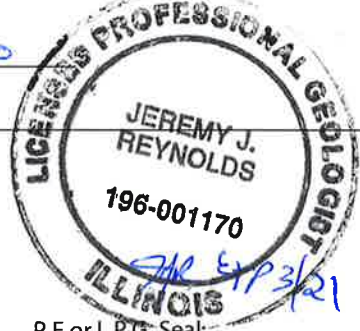
certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 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:

4/23/2020
Date:

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

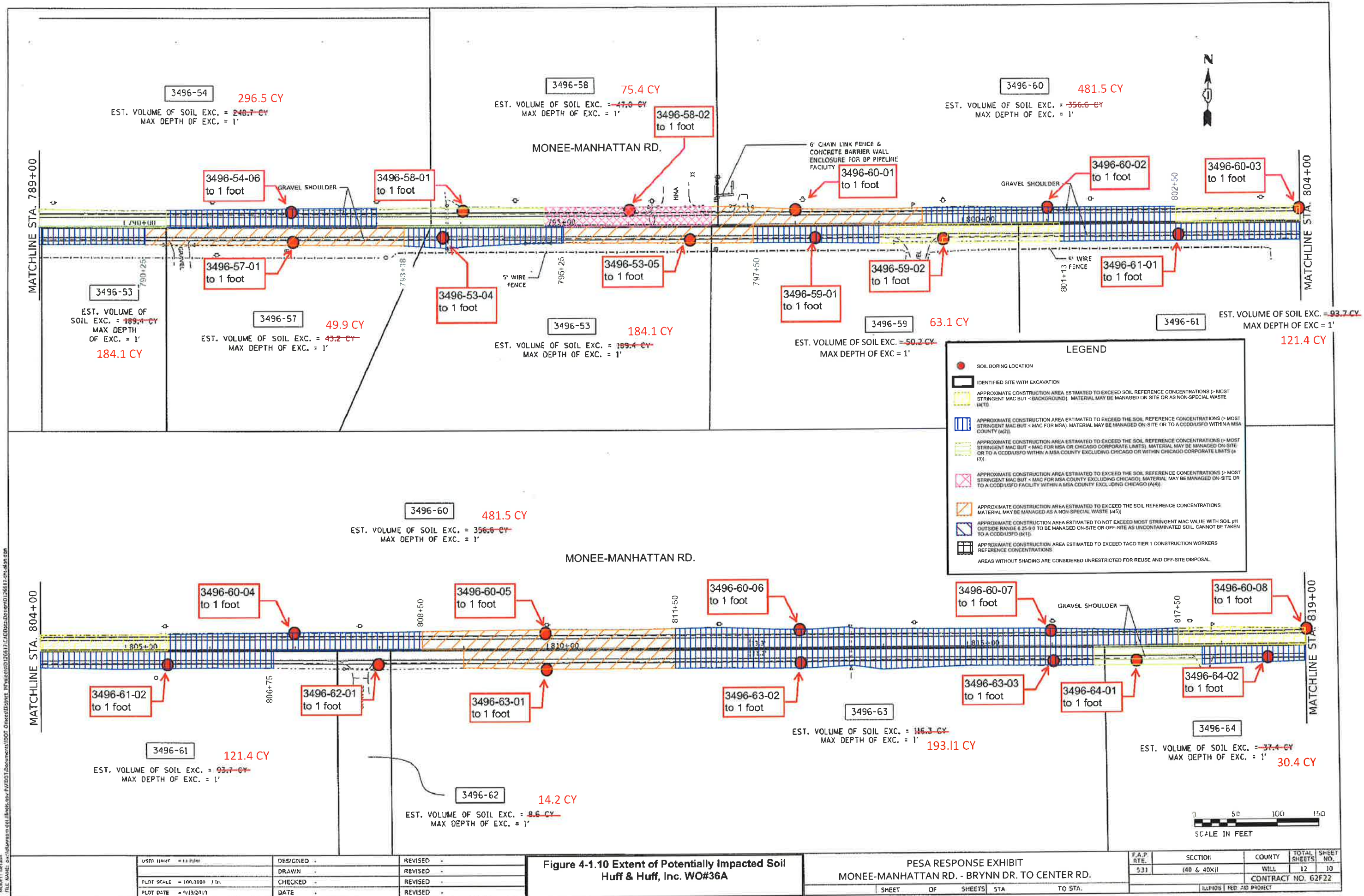


Figure 4-1.10 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONIE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	10
CONTRACT NO. 62F22				

SHEET OF SHEETS STA TO STA.

ILLINOIS FED. AID PROJECT

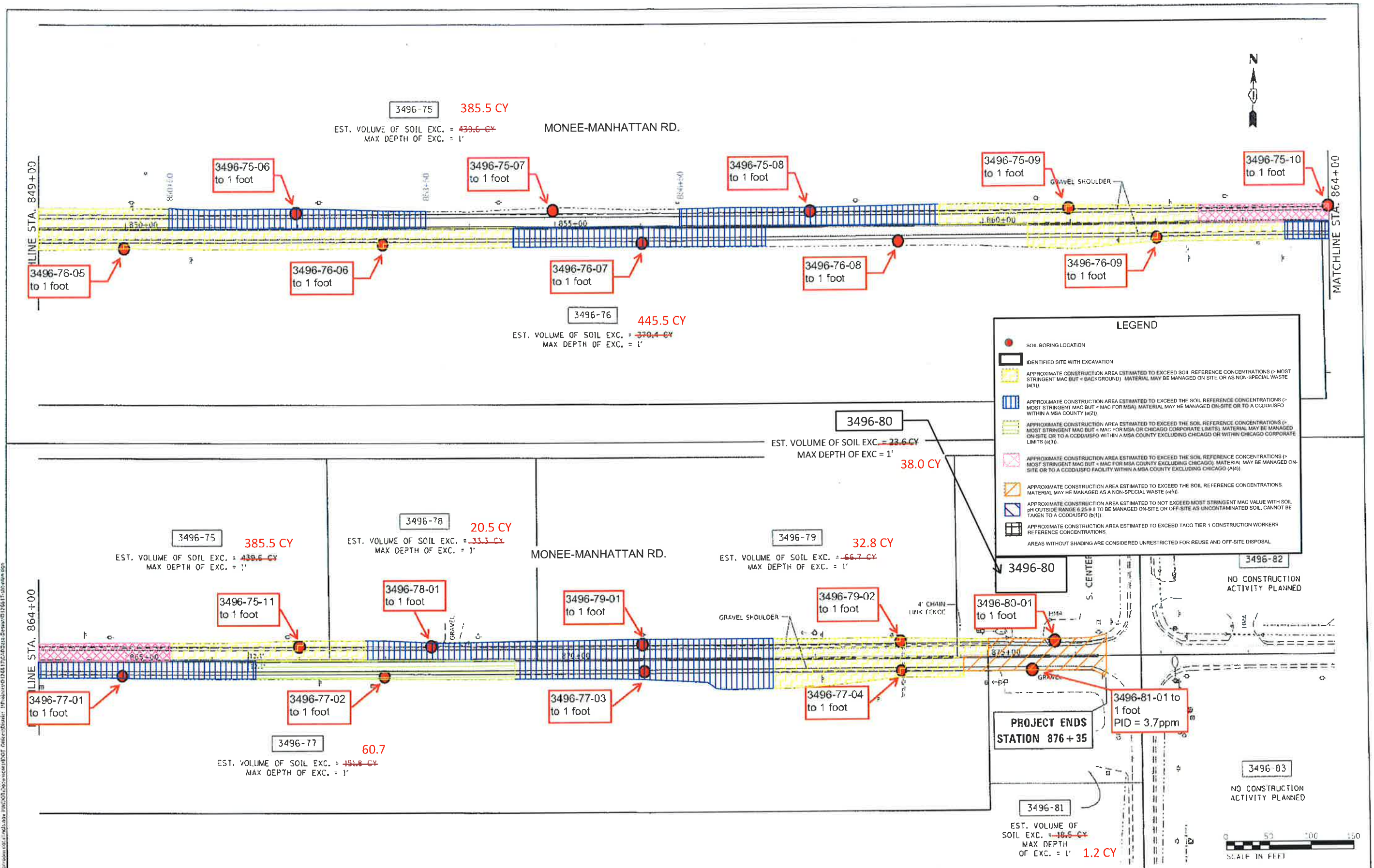


Figure 4-1.12 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	140 S 40X11	WEL	12	12

CONTRACT NO. G2F22

USER NAME	DESIGNED	REVISED
DATE	CHECKED	REVISED
DATE	DATE	REVISED

HUFF & HUFF, INC. 11111 W. MONEE RD. MONEE, IL 60449
 TEL: 815-336-1111 FAX: 815-336-1112
 WWW.HUFFANDHUFF.COM

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Excluding Chicago
 Manhattan-Monee Road
 Manhattan, Will County, Illinois
 BDE Sequence No.: 21185
 PTB: 178-008/HH-1, Work Order No.: 036A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	3496-58-02	3496-75-10
				(0-2)	(0-2)
				2/4/2020	2/3/2020
Sample Depth, ft					
Sample Date					
Excavation Area(s)					
[ISGS Site No.(s)]				3496-58	3496-75
Parameter					
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	7.66	8.04
VOCs, mg/kg	NO EXCEEDANCES				
SVOCs, mg/kg	NO EXCEEDANCES				
Benzo(a)anthracene	0.9 / 1.1 / 1.8	170	0.9	1.13	1.05
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	1.45	1.5
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	1.59	1.34
Benzo(k)fluoranthene	9	1700	9	1.54	1.26
Benzo(g,h,i)perylene	---	---	---	0.662	0.781
Chrysene	88	17000	88	1.32	1.18
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	0.131	0.217
Fluoranthene	3,100	82,000	3,100	2.21	1.54
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	0.663	0.902
Phenanthrene	---	---	---	1.04	<0.33
Pyrene	2,300	61000	2300	2.12	1.54
Total Metals, mg/kg					
Antimony	5	82	31	1	<1.0
Arsenic	11.3 / 13	61	13	3.3	8.5
Barium	1,500	14,000	5500	62	73.6
Beryllium	22	410	160	0.6	<0.5
Calcium	---	---	---	52900	19600
Chromium	21	690	230	14.3	20.2
Cobalt	20	12,000	4700	5.9	10.8
Copper	2,900	8,200	2900	13.3	23.6
Iron	15,000 / 15,900	---	---	16100	22800
Lead	107	700	400	60.7	23.7
Magnesium	325,000	730,000	325,000	31700	11800
Manganese	630 / 636	4,100	1600	295	448
Nickel	100	4,100	1600	13.3	26.6
Potassium	---	---	---	1610	1900
Silver	4.4	1,000	390	0.6	0.8
Sodium	---	---	---	1280	811
Vanadium	550	1,400	550	21.2	26.8
Zinc	5,100	61,000	23000	56.8	58.7
TCLP Metals, mg/L	Class I Groundwater ^{a/}				
Arsenic	0.05			<0.010	<0.010
Barium	2			<1.0	<1.0
Beryllium	0.004			<1.00	<1.00
Chromium	0.1			<0.005	<0.005
Cobalt	1			<0.1	<0.1
Copper	0.65			<0.1	<0.1
Iron	5			1	<0.1
Lead	0.0075			0.031	0.006
Manganese	0.15			4.5	10.9
Nickel	0.1			<0.1	<0.1
Silver	0.05			<0.005	<0.005
Zinc	5			0.2	<0.1
SPLP Metals, mg/L	Class I Groundwater ^{a/}				
Arsenic	0.05			<0.010	0.02
Barium	2			<1.0	<1.0
Beryllium	0.004			<0.004	<0.004
Chromium	0.1			0.03	0.084
Cobalt	1			<0.1	<0.1
Copper	0.65			0.042	0.081
Iron	5			30.3	87.8
Lead	0.0075			0.091	0.071
Manganese	0.15			0.2	1.1
Nickel	0.1			<0.1	<0.1
Silver	0.05			<0.005	<0.005
Zinc	5			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.

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration



February 20, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0676
Date Received: February 05, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:58

Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	80.21		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:58

Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/14/20				
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: 02/19/20				
Preparation Date: 02/17/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,130	330	ug/kg	
Benzo(a)pyrene	1,450	90	ug/kg	
Benzo(b)fluoranthene	1,590	330	ug/kg	
Benzo(k)fluoranthene	1,540	330	ug/kg	
Benzo(ghi)perylene	662	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,320	330	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:58

Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/19/20		Preparation Date: 02/17/20		
Dibenzo(a,h)anthracene	131	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	2,210	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	663	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	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/19/20				Preparation Date: 02/17/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,040	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	2,120	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: 02/19/20				Preparation Date: 02/14/20
Antimony	1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	62.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	52,900	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	5.9	0.5	mg/kg	
Copper	13.3	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	60.7	0.5	mg/kg	
Magnesium	31,700	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	13.3	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,280	50	mg/kg	



Analytical Report

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Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/14/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	21.2	1.0	mg/kg	
Zinc	56.8	1.0	mg/kg	
Total Mercury Analysis Date: 02/17/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.66		Units	
TCLP Extraction Analysis Date: 02/10/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/19/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.0	0.1	mg/L	
Lead	0.031	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	0.2	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/14/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 10:58

Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.042	0.005	mg/L	
Iron	30.3	0.1	mg/L	
Lead	0.091	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:58

Sample ID: 3496-58-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-009

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63.2	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.2	50 - 100	



February 19, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0635
Date Received: February 04, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	83.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/17/20				
Preparation Date: 02/13/20				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	1,050	330	ug/kg	
Benzo(a)pyrene	1,500	90	ug/kg	
Benzo(b)fluoranthene	1,340	330	ug/kg	
Benzo(k)fluoranthene	1,260	330	ug/kg	
Benzo(ghi)perylene	781	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	1,180	330	ug/kg	



Analytical Report

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Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	217	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	1,540	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	902	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	



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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,540	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: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	73.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,600	50	mg/kg	
Chromium	20.2	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	23.6	0.5	mg/kg	
Iron	22,800	5.0	mg/kg	
Lead	23.7	0.5	mg/kg	
Magnesium	11,800	50	mg/kg	
Manganese	448	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	1,900	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	811	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/12/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	26.8	1.0	mg/kg	
Zinc	58.7	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.04		Units	
TCLP Extraction Analysis Date: 02/06/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/13/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	10.9	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: 02/12/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.020	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	0.084	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.081	0.005	mg/L	
Iron	87.8	0.1	mg/L	
Lead	0.071	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: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:36

Sample ID: 3496-75-10 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-036

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 71.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 55.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 78.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 74.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 62.8	50 - 100	



Illinois Environmental Protection Agency

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

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

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

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

I. Source Location Information

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

Project Name: IDOT 178008-036A Monee-Manhattan Rd - 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: Manhattan State: IL Zip Code: 60442

County: Will Township: _____

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

Latitude: 41.42501 Longitude: - 87.91282

(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.): 850

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 4-1.12 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 #20-0484, #20-0509, #20-0536, #20-0561, #20-0602, #20-0635, and #20-0676. Site specific table of results is attached to this form.

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

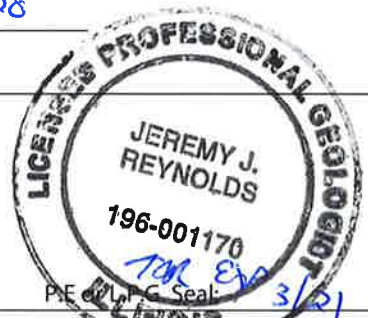
I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with 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:

4/23/2020
Date:

P.E. or L.P.C. Seal: 3/21

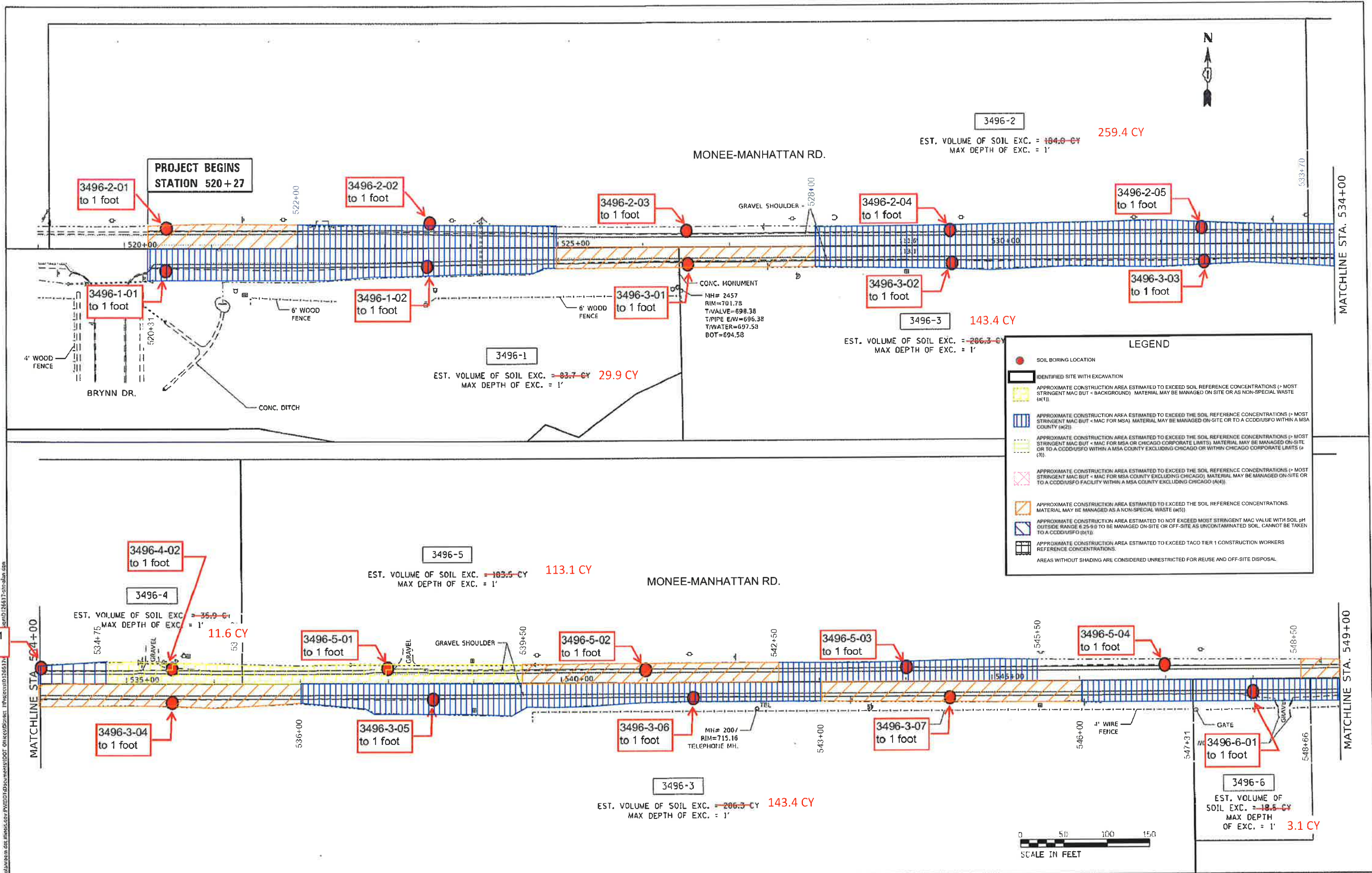
LPC-663
Uncontaminated Soil Certification Form
Attachment

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):

3496-5 (14400-14600 blocks of W. Monee-Manhattan Rd)
3496-7 (14435 W. Monee-Manhattan Rd)
3496-16 (13920 W. Monee-Manhattan Rd)
3496-17 (13902 W. Monee-Manhattan Rd)
3496-21 (13300-13500 blocks of W. Monee-Manhattan Rd)
3496-24 (13200-13300 blocks of W. Monee-Manhattan Rd)
3496-26 (13339 W. Monee-Manhattan Rd)
3496-30 (12800-13100 blocks of W. Monee-Manhattan Rd)
3496-31 (12755 W. Monee-Manhattan Rd)
3496-32 (12600 W. Monee-Manhattan Rd)
3496-33 (12600-12700 blocks of W. Monee-Manhattan Rd)
3496-38 (12000-12300 blocks of W. Monee-Manhattan Rd)
3496-43 (11500-11900 blocks of W. Monee-Manhattan Rd)
3496-45 (11400 block of W. Monee-Manhattan Rd)
3496-54 (10800-11100 blocks of W. Monee-Manhattan Rd)
3496-62 (10600 block of W. Monee-Manhattan Rd)
3496-75 (9700-10200 blocks of W. Monee-Manhattan Rd)
3496-76 (9800-10100 blocks of W. Monee-Manhattan Rd)

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:

3496-5-04 (Monee-Manhattan Rd. Sta. 547+00)
3496-7-01 (Monee-Manhattan Rd. Sta. 550+00)
3496-16-01 (Monee-Manhattan Rd. Sta. 582+50)
3496-17-01 (Monee-Manhattan Rd. Sta. 585+00)
3496-21-04 (Monee-Manhattan Rd. Sta. 617+50)
3496-21-05 (Monee-Manhattan Rd. Sta. 620+50)
3496-24-03 (Monee-Manhattan Rd. Sta. 634+00)
3496-26-03 (Monee-Manhattan Rd. Sta. 627+00)
3496-30-01 (Monee-Manhattan Rd. Sta. 645+00)
3496-31-01 (Monee-Manhattan Rd. Sta. 665+00)
3496-32-04 (Monee-Manhattan Rd. Sta. 670+50)
3496-32-05 (Monee-Manhattan Rd. Sta. 672+50)
3496-32-07 (Monee-Manhattan Rd. Sta. 676+50)
3496-32-08 (Monee-Manhattan Rd. Sta. 678+50)
3496-32-11 (Monee-Manhattan Rd. Sta. 686+00)
3496-33-01 (Monee-Manhattan Rd. Sta. 667+00)
3496-38-01 (Monee-Manhattan Rd. Sta. 692+00)
3496-38-02 (Monee-Manhattan Rd. Sta. 695+00)
3496-38-03 (Monee-Manhattan Rd. Sta. 698+00)
3496-Dup-15 (Monee-Manhattan Rd. Sta. 698+00)
3496-38-04 (Monee-Manhattan Rd. Sta. 701+00)
3496-38-05 (Monee-Manhattan Rd. Sta. 704+00)
3496-43-05 (Monee-Manhattan Rd. Sta. 733+50)
3496-43-07 (Monee-Manhattan Rd. Sta. 739+50)
3496-43-09 (Monee-Manhattan Rd. Sta. 745+50)
3496-54-02 (Monee-Manhattan Rd. Sta. 780+00)
3496-62-01 (Monee-Manhattan Rd. Sta. 808+00)
3496-75-07 (Monee-Manhattan Rd. Sta. 855+00)
3496-76-08 (Monee-Manhattan Rd. Sta. 859+00)



PROJECT BEGINS
STATION 520+27

MONEE-MANHATTAN RD.

3496-2
EST. VOLUME OF SOIL EXC. = 184.0 CY
MAX DEPTH OF EXC. = 1'

3496-2-01
to 1 foot

3496-2-02
to 1 foot

3496-2-03
to 1 foot

3496-2-04
to 1 foot

3496-2-05
to 1 foot

3496-1-01
to 1 foot

3496-1-02
to 1 foot

3496-3-01
to 1 foot

3496-3-02
to 1 foot

3496-3-03
to 1 foot

3496-1
EST. VOLUME OF SOIL EXC. = 83.7 CY
MAX DEPTH OF EXC. = 1'

3496-3
EST. VOLUME OF SOIL EXC. = 286.3 CY
MAX DEPTH OF EXC. = 1'

LEGEND

- SOIL BORING LOCATION
- ▭ IDENTIFIED SITE WITH EXCAVATION
- ▨ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (R1).
- ▤ 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 CCDDUSFO WITHIN A MSA COUNTY (R2).
- ▥ 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 CCDDUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO CORPORATE LIMITS (R3).
- ▧ 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 CCDDUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO (R4).
- ▩ APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (R5).
- 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 CCDDUSFO (R1).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

3496-4-02
to 1 foot

3496-5
EST. VOLUME OF SOIL EXC. = 183.5 CY
MAX DEPTH OF EXC. = 1'

MONEE-MANHATTAN RD.

EST. VOLUME OF SOIL EXC. = 35.9 CY
MAX DEPTH OF EXC. = 1'

3496-4-01
to 1 foot

3496-5-01
to 1 foot

3496-5-02
to 1 foot

3496-5-03
to 1 foot

3496-5-04
to 1 foot

3496-3-04
to 1 foot

3496-3-05
to 1 foot

3496-3-06
to 1 foot

3496-3-07
to 1 foot

3496-6-01
to 1 foot

3496-3
EST. VOLUME OF SOIL EXC. = 286.3 CY
MAX DEPTH OF EXC. = 1'

3496-6
EST. VOLUME OF SOIL EXC. = 18.5 CY
MAX DEPTH OF EXC. = 1'



USFR NAME = 13-14-01	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
CHECKED -	REVISED -	REVISED -
DATE -	REVISED -	REVISED -

Figure 4-1.1 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	1
CONTRACT NO. 62F22				

MONPEL - P20408
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 DATE: 9/13/2019

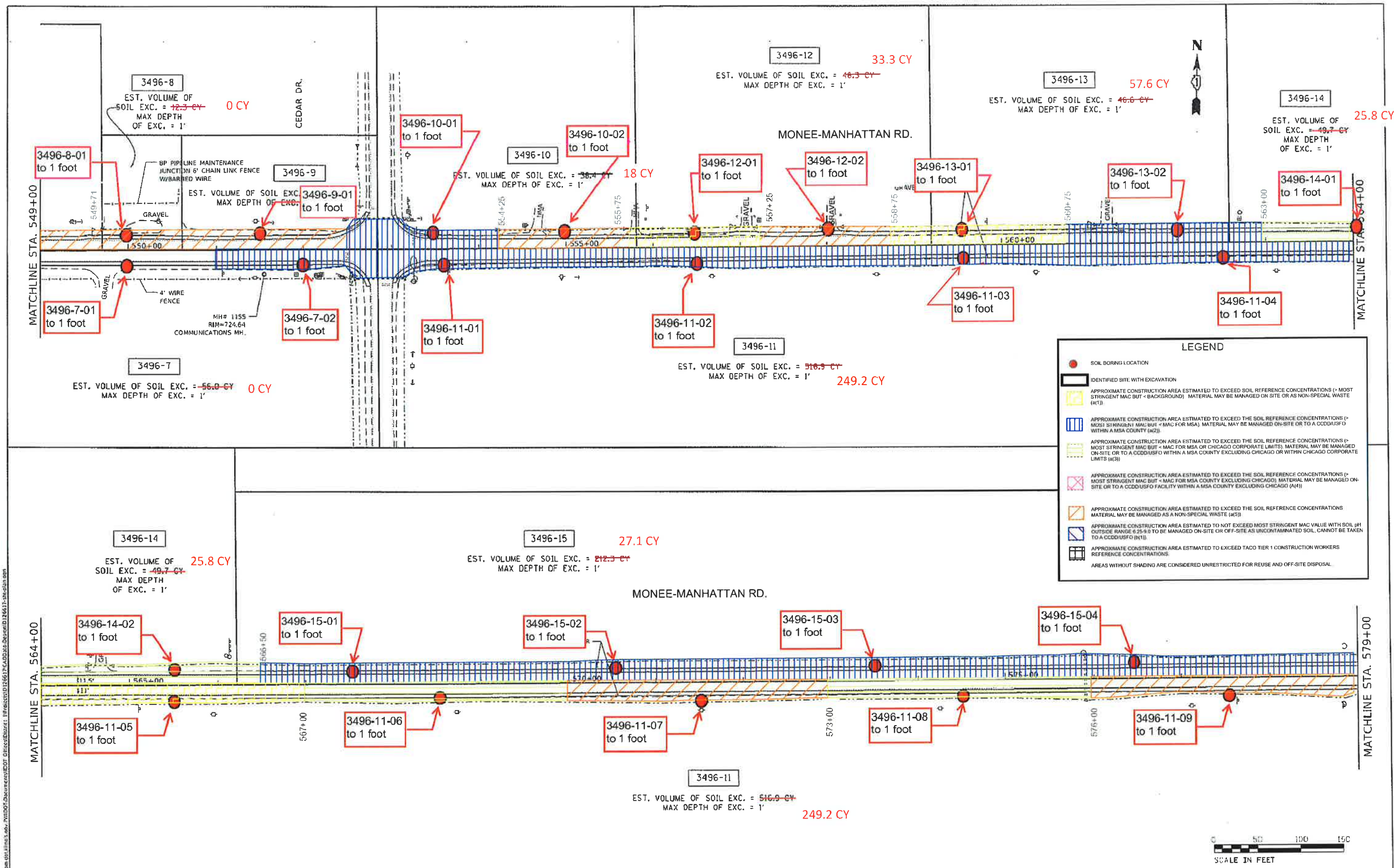


Figure 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USFR NAME -	DESIGNED -	REVISED -
PLOT SCALE - 100,000 / 1 in.	DRAWN -	REVISED -
PLOT DATE - 4/13/2017	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.P. RTE. 531	SECTION 140 & 40x11	COUNTY WILL	TOTAL SHEETS 12	SHEET NO. 2
CONTRACT NO. 62F22				
ILLINOIS FED. AID PROJECT				

ACPDF: Default
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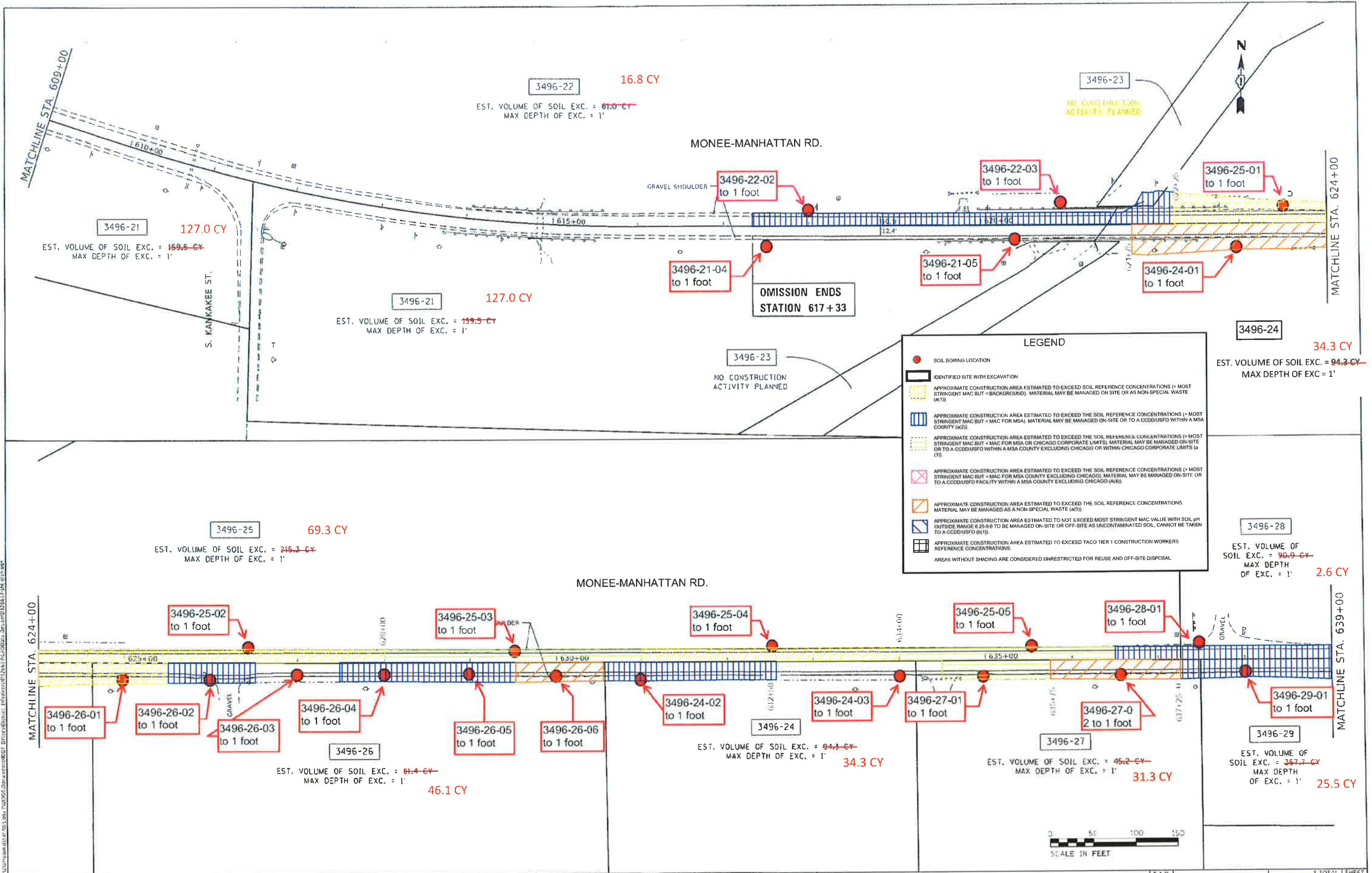


Figure 4-1.4 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USER NAME = jmm	DESIGNED =	REVISED =
PLOT SCALE = 1/8" = 100'	DRAWN =	REVISED =
PLOT DATE = 9/14/2013	CHECKED =	REVISED =
	DATE =	REVISED =

F.A.P. R.T.E. = 531	SECTION = (40 & 10X)H	COUNTY = WILL	TOTAL SHEETS = 12	SHEET NO. = 4
SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62F22		
ILLINOIS FED. RD. PROJECT				

MOBILE GRAPHIC SYSTEMS, INC. 10000 W. 110TH ST., SUITE 100, OPAOK, ILLINOIS 60455-1100
 TEL: 708/441-1100 FAX: 708/441-1101 WWW: WWW.MGS-CAD.COM
 PLOT DATE: 9/14/2013 10:00 AM

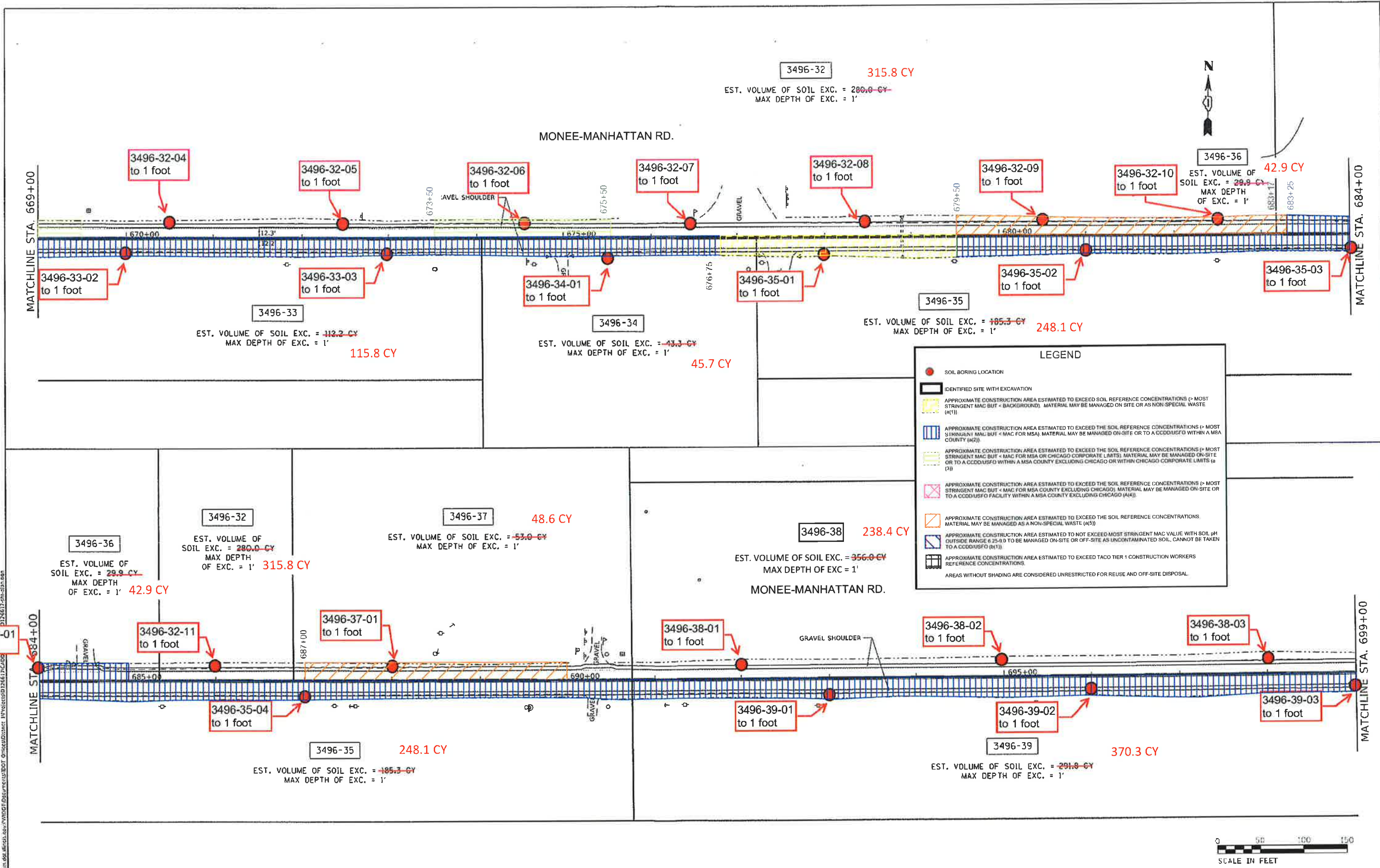


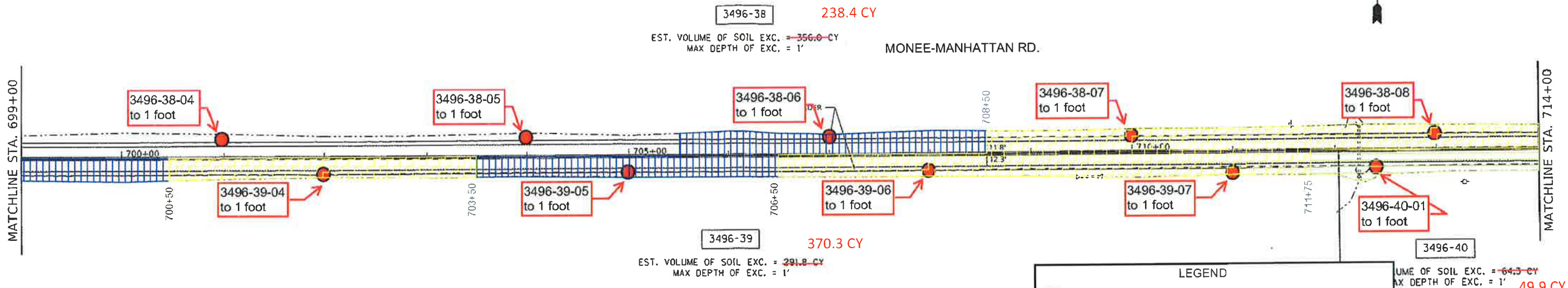
Figure 4-1.6 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USFR 11/14/17	DESIGNED -	REVISD -
PLOT SCALE = 1/8" = 100'	DRAWN -	REVISD -
PLOT DATE = 4/13/2019	CHECKED -	REVISD -
	DATE -	REVISD -

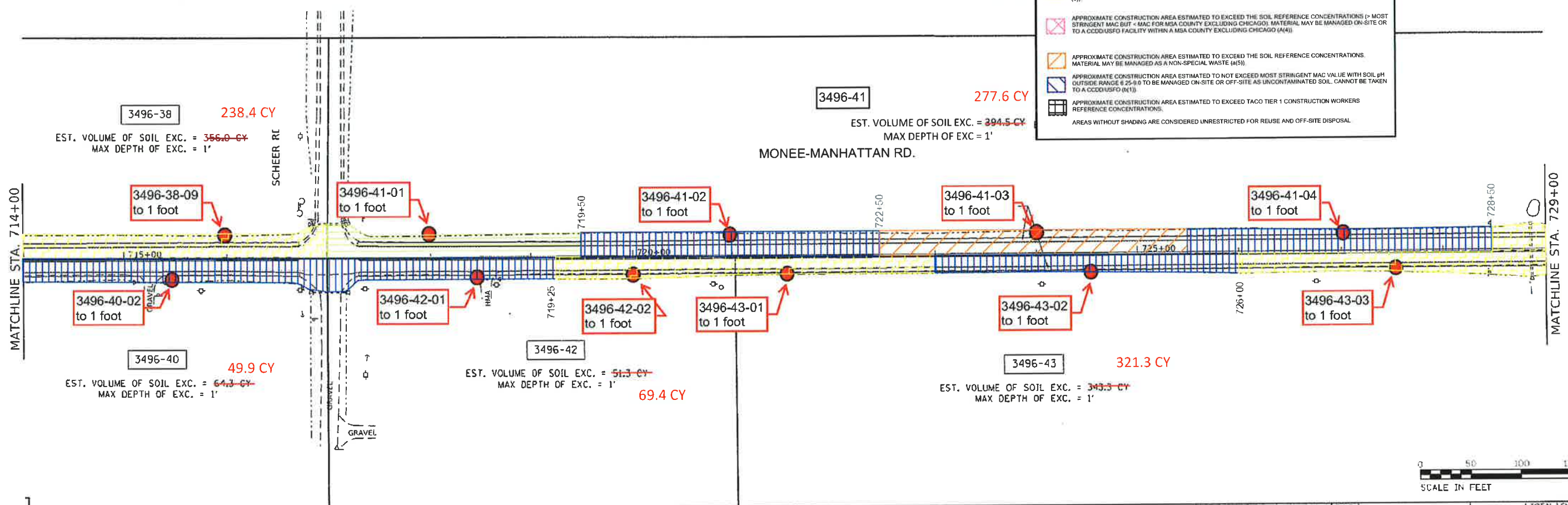
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X1)	WILL	12	6
CONTRACT NO. 62F22			ILLINOIS FED. AID PROJECT	

SHEET OF SHEETS STA. TO STA.



LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a1).
- 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 CDDUSFO WITHIN A MSA COUNTY (a2).
- 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 CDDUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a3).
- 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 CDDUSFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (a4).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a5).
- 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 CDDUSFO (b1).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



NOTES: Default
FILE DATE: 10/13/2011
PROJECT: PESA RESPONSE EXHIBIT - MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.
DRAWN: JH
CHECKED: JH
DATE: 10/13/2011

Figure 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

USFR (DATE)	DESIGNED	REVISED
531	10/13/2011	
PLOT SCALE = 1/8" = 100'	CHECKED	REVISED
PLOT DATE = 10/13/2011	DATE	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40X)	WILL	12	7
CONTRACT NO. 62F22				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS STA. TO STA.

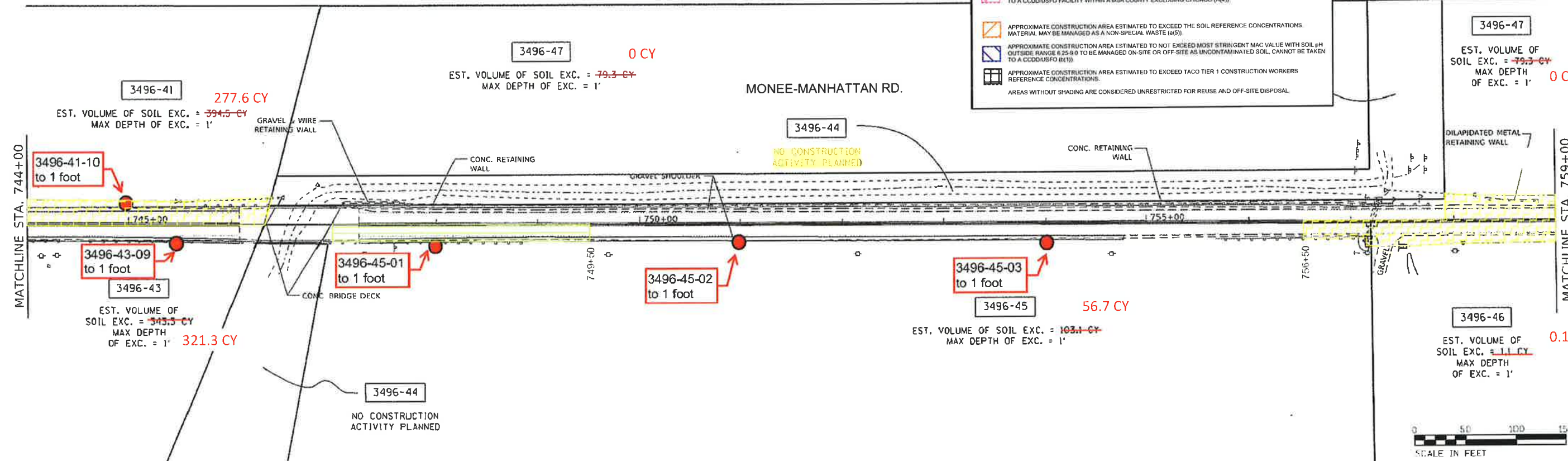
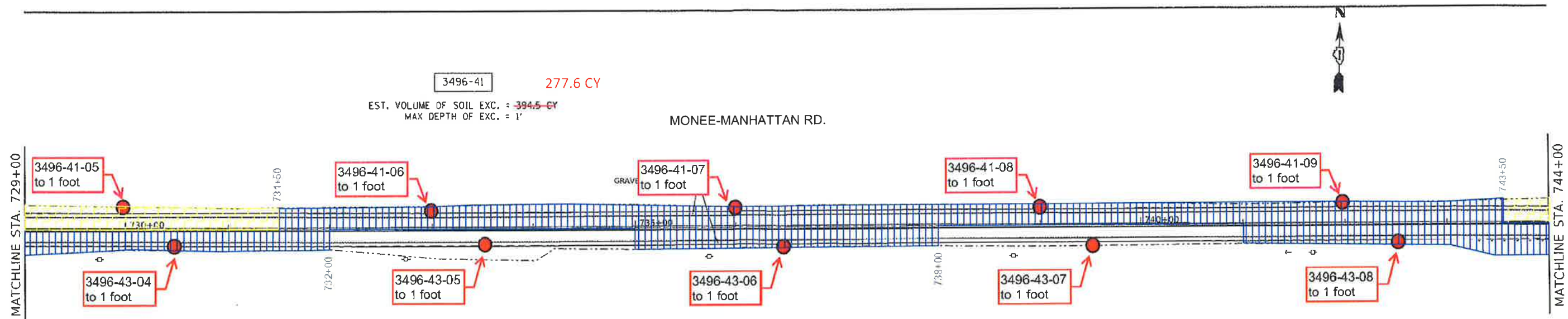


Figure 4-1.8 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40XII)	WILL	12	8

CONTRACT NO. 62F22
ILLINOIS FED. AID PROJECT

DESIGNED	REVISED
DRAWN	REVISED
CHECKED	REVISED
DATE	REVISED

DESIGNED	REVISED
DRAWN	REVISED
CHECKED	REVISED
DATE	REVISED

10/11/11 10:00 AM
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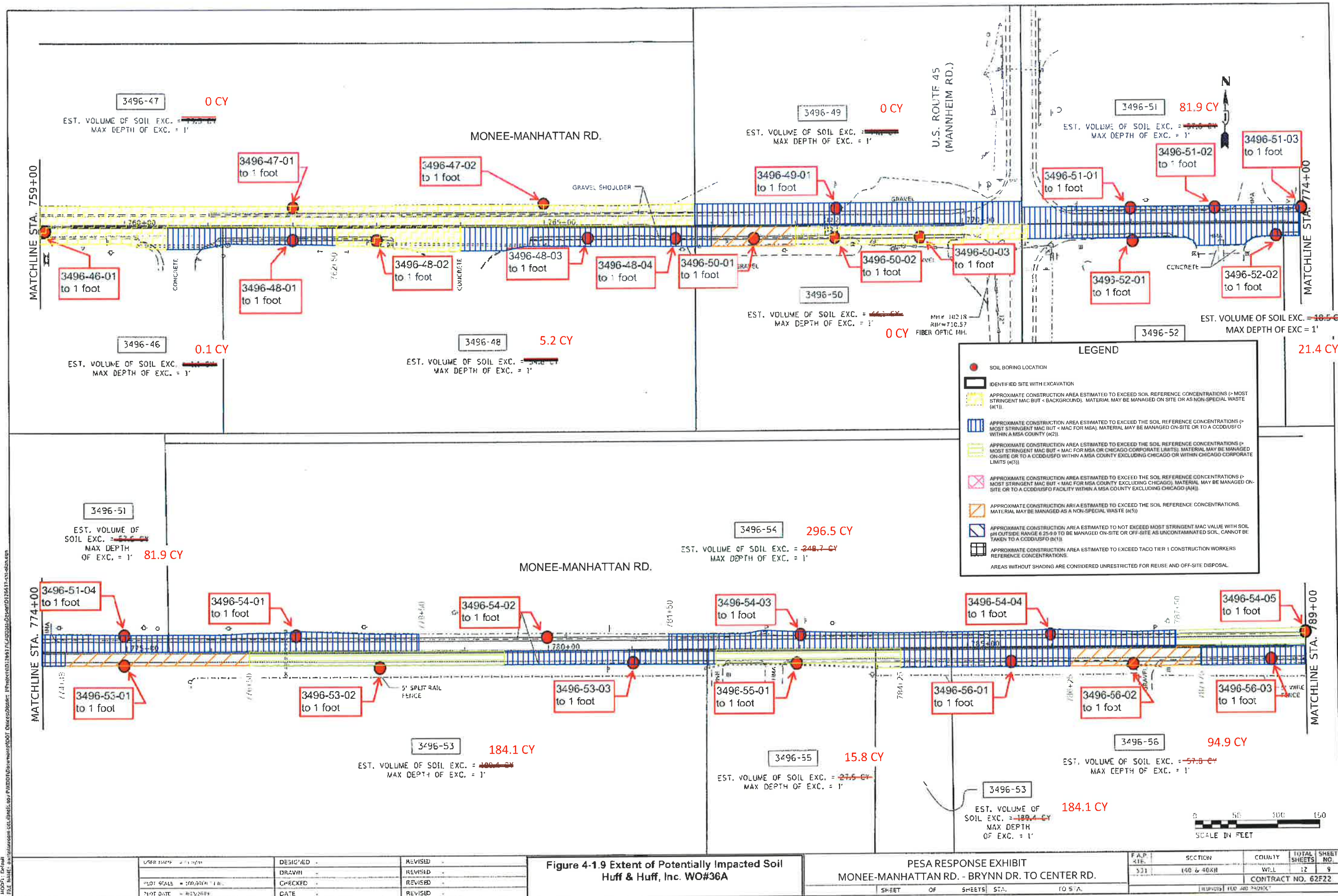


Figure 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
MONIE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

DESIGNED	REVISION	DATE
DRAWN	REVISION	DATE
CHECKED	REVISION	DATE
DATE	REVISION	DATE

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(40 & 40X)	WILL	12	9
CONTRACT NO. 62F22				

SHEET OF SHEETS STA. TO STA.

HUFF & HUFF, INC. 1000 N. WASHINGTON ST., SUITE 100, CHICAGO, IL 60610
 TEL: 312.261.1000 FAX: 312.261.1001
 WWW.HUFFANDHUFF.COM

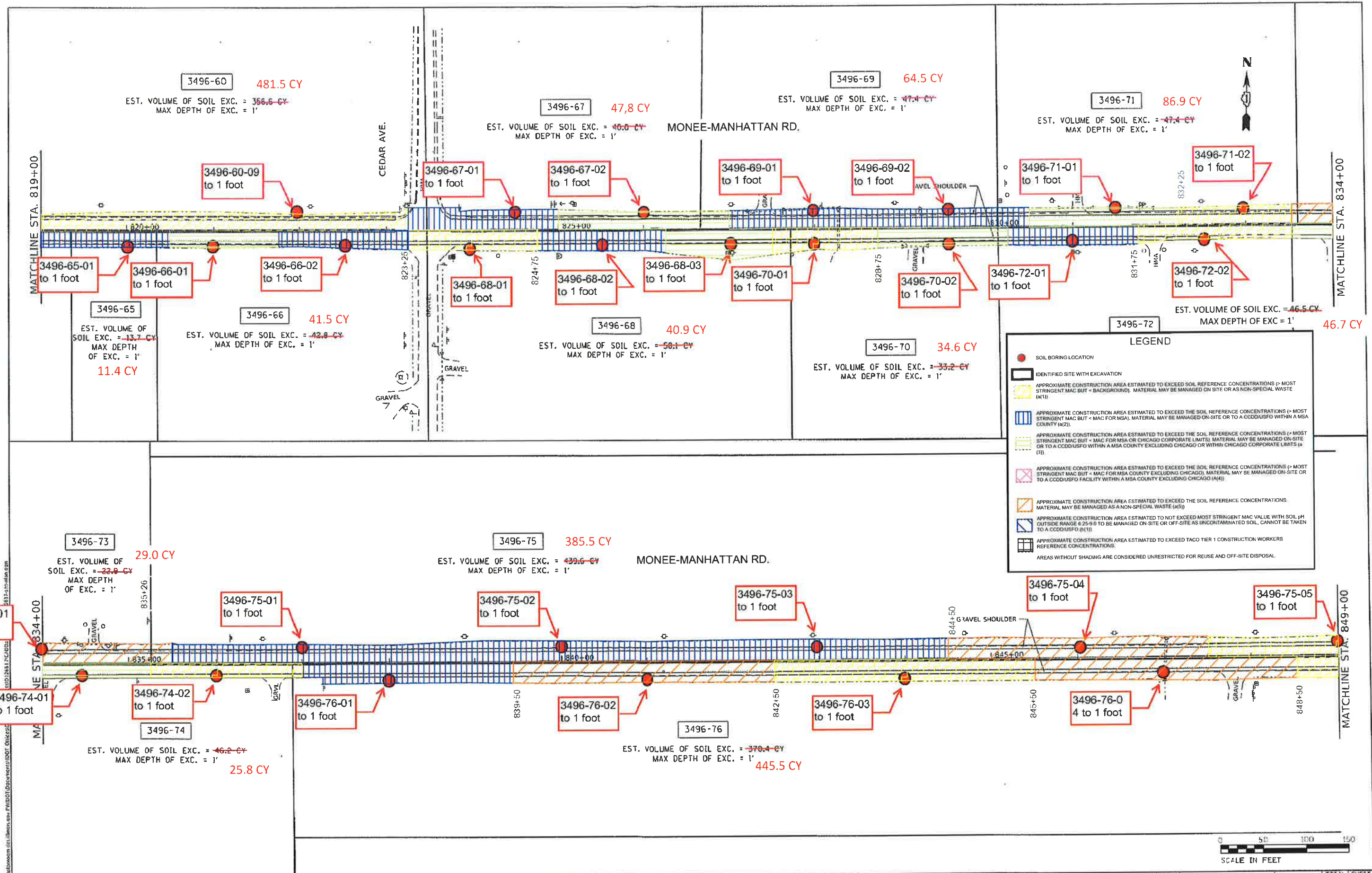


Figure 4-1.11 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. WO#36A

PESA RESPONSE EXHIBIT
 MONEE-MANHATTAN RD. - BRYNN DR. TO CENTER RD.

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
531	(40 & 40XII)	WILL	12	11

CONTRACT NO. 62F22
 ILLINOIS FED AID PROJECT

USFR RAMP	DESIGNED	REVISED
# 11 (11/11)	-	-
PLOT SCALE = 1/8" = 100.0000' / 1"	DRAWN	REVISED
PLOT DATE = 9/13/2019	CHECKED	REVISED
	DATE	REVISED

ADP21: Rev 04
 P&E: Dave: 09/13/2019 10:00 AM

LPC-663 Results
Soils for Unrestricted Reuse or Disposal at CCDD Facilities
Manhattan-Monee Road
Manhattan, Will County, Illinois
BDE Sequence No.: 21185
PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-5-04	3496-7-01	3496-16-01	3496-17-01	3496-21-04	3496-21-05	3496-24-03
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
				1/29/2020	1/27/2020	1/28/2020	1/28/2020	1/27/2020	1/28/2020	
Parameter				3496-5	3496-7	3496-16	3496-17	3496-21		3496-24
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.66	7.95	8.47	8.35	8	8.69	7.97
VOCs, mg/kg	NO EXCEEDANCES									
SVOCs, mg/kg	NO EXCEEDANCES									
Total Metals, mg/kg	NO EXCEEDANCES									
Antimony	5	82	31	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	13	4.6	11.1	7.6	7.9	5.3	9.7	6.7
Barium	1,500	14,000	5500	49	88.7	238	143	97.2	62.1	143
Beryllium	22	410	160	<0.5	0.6	1	0.8	0.7	0.6	0.9
Calcium	---	---	---	179000	34800	4190	15000	8380	34400	5670
Chromium	21	690	230	15.5	19.1	24.1	16.6	18.1	17.8	21.3
Cobalt	20	12,000	4700	6.8	11	9.3	8.6	7.2	10.5	7.2
Copper	2,900	8,200	2900	21.3	27.8	28	19.5	20.7	26.3	24.3
Iron	15,000 / 15,900	---	---	16200	27900	28900	20800	21200	25800	24300
Lead	107	700	400	10.4	15.5	16.4	30.2	18.6	18.8	17.2
Magnesium	325,000	730,000	325000	21000	17600	4760	9620	6170	18800	3710
Manganese	630 / 636	4,100	1600	245	458	453	595	300	464	425
Mercury	0.89	0.1	10	<0.05	0.06	0.07	<0.05	0.05	0.06	<0.05
Nickel	100	4,100	1600	19.4	29.4	22.2	17.5	20.7	27.3	22.3
Potassium	---	---	---	1610	1670	1230	1550	1830	1980	2060
Silver	4.4	1,000	390	0.4	0.8	0.6	0.5	0.6	0.7	0.6
Sodium	---	---	---	1310	377	2430	2340	431	451	3630
Vanadium	550	1,400	550	18.2	27.6	38.9	30.4	24.5	24	31.7
Zinc	5,100	61,000	23000	40.7	59.7	81.6	86.5	76.6	70.1	79.2
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.7
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15			<0.1	5.7	<0.1	<0.1	<0.1	<0.1	<0.1
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	0.026	0.023	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium	0.1			0.019	<0.005	0.097	0.046	0.077	0.062	0.037
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			0.018	<0.005	0.058	0.036	0.079	0.07	0.024
Iron	5			18.8	0.2	84.9	45.2	85.5	72.8	34.9
Lead	0.0075			0.007	<0.005	0.021	0.034	0.032	0.028	0.014
Manganese	0.15			<0.1	<0.1	0.3	0.3	0.4	0.4	0.2
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			<0.1	<0.1	0.3	0.2	0.3	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.

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
 Soils for Unrestricted Reuse or Disposal at CCDD Facilities
 Manhattan-Monee Road
 Manhattan, Will County, Illinois
 BDE Sequence No.: 21185
 PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-26-03	3496-30-01	3496-31-01	3496-32-04	3496-32-05	3496-32-07	3496-32-08	3496-32-11	3496-33-01
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	
				1/27/2020	1/28/2020	1/30/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/30/2020	
				3496-26	3496-30	3496-31	3496-32				3496-33	
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.18	8.2	8.72	8.06	8.05	8.15	8.06	7.84	8.13
VOCS, mg/kg	NO EXCEEDANCES											
SVOCs, mg/kg	NO EXCEEDANCES											
Total Metals, mg/kg	NO EXCEEDANCES											
Antimony	5	82	31	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	13	6.1	10.9	7.6	6.7	7.8	8.7	5.8	8.9	10.7
Barium	1,500	14,000	5500	127	76.3	23	133	120	108	147	136	109
Beryllium	22	410	160	0.6	0.5	<0.5	0.6	0.5	0.7	0.8	0.9	0.6
Cadmium	5.2	200	78	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.5	<0.5	<0.5
Calcium	---	---	---	2220	3830	49600	5030	17400	2160	7020	3390	4390
Chromium	21	690	230	14.8	18.2	15.8	16.1	18.2	21.8	20	21.2	21
Cobalt	20	12,000	4700	11.8	10.4	7.9	7.4	9.1	10.7	7.6	8.7	9.6
Copper	2,900	8,200	2900	14.2	20.8	22.8	16.4	17.6	28.4	22.1	14.7	21.2
Iron	15,000 / 15,900	---	---	18600	27500	21400	19300	20600	27300	23200	24800	27300
Lead	107	700	400	15.6	28.2	16.1	37.1	44.2	14.2	17.6	14.5	28.7
Magnesium	325,000	730,000	325000	2240	3590	23100	3320	11000	4200	4610	3790	4300
Manganese	630 / 636	4,100	1600	1320	713	248	808	867	527	415	366	334
Mercury	0.89	0.1	10	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.05
Nickel	100	4,100	1600	16.9	22.9	24.7	16.1	16	32.8	20.1	19.1	19.8
Potassium	---	---	---	1140	1830	1640	1850	1790	1540	2090	1570	1110
Silver	4.4	1,000	390	0.5	0.8	0.5	0.4	0.4	0.5	0.4	0.6	0.6
Sodium	---	---	---	2650	1880	1230	579	674	1080	599	1130	1620
Vanadium	550	1,400	550	27.1	30.7	22	29.2	29.4	30.4	30.8	35.3	38.3
Zinc	5,100	61,000	23000	52.3	65.5	55.9	72.6	66.9	65.1	76.7	52.3	59.4
TCLP Metals, mg/L	Class I Groundwater ^{d/}											
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			<0.1	<0.1	<0.1	1.5	4.2	<0.1	<0.1	<0.1	0.2
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15			<0.1	0.1	4.6	<0.1	<0.1	0.1	<0.1	<0.1	0.1
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.001	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}											
Arsenic	0.05			<0.010	0.023	<0.010	<0.010	<0.010	0.038	<0.010	<0.010	0.01
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<0.004	<0.004	<0.004	<0.004	<0.004	0.006	<0.004	<0.004	<0.004
Cadmium	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.1			0.042	0.066	0.021	0.033	0.039	0.144	0.043	0.052	0.067
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			0.031	0.065	0.021	0.026	0.028	0.173	0.027	0.03	0.054
Iron	5			43.7	82.8	21.4	34.3	38.2	174	46	51.5	66.9
Lead	0.0075			0.022	0.035	0.007	0.009	0.016	0.031	0.013	0.008	0.014
Manganese	0.15			1.3	0.6	<0.1	0.2	0.2	0.6	0.2	0.2	0.2
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			0.1	0.2	<0.1	0.2	0.2	0.4	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.

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Unrestricted Reuse or Disposal at CCDD Facilities
Manhattan-Monee Road
Manhattan, Will County, Illinois
BDE Sequence No.: 21185
PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-38-01	3496-38-02	3496-38-03	DUP-15 (3496-38-03)	3496-38-04	3496-38-05	3496-43-05	3496-43-07	3496-43-09
				(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	
				1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	1/31/2020	
3496-38								3496-43				
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	7.97	7.86	8.29	7.8	7.67	7.71	7.65	7.75	8.23
VOCs, mg/kg												
Carbon disulfide	9	9	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0103
SVOCs, mg/kg												
NO EXCEEDANCES												
Total Metals, mg/kg												
Arsenic	11.3 / 13	61	13	9.7	11.1	5.9	6.3	7.1	6.4	7.5	8.4	10.3
Barium	1,500	14,000	5500	127	121	137	132	148	141	101	113	104
Beryllium	22	410	160	0.7	0.8	0.8	0.9	0.8	1	0.7	0.7	0.7
Calcium	---	---	---	4060	3330	5630	6450	13200	3660	4750	3520	7070
Chromium	21	690	230	19.1	21	20.3	21	17.3	23.2	19.9	15.9	20
Cobalt	20	12,000	4700	13.2	14.8	8.9	6	8.8	10.8	12.3	13.2	10.5
Copper	2,900	8,200	2900	22.8	18.8	23.9	22	21.1	19.8	23.8	16.3	33.8
Iron	15,000 / 15,900	---	---	25000	26500	24000	24700	21400	25900	23800	21100	26000
Lead	107	700	400	23.5	20.1	16.7	17.5	18.7	17.3	18	27.7	64.8
Magnesium	325,000	730,000	325000	3880	3980	4150	4300	6830	4740	3770	2800	4510
Manganese	630 / 636	4,100	1600	711	563	247	184	500	472	595	1220	612
Mercury	0.89	0.1	10	0.11	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Nickel	100	4,100	1600	22.9	19.5	20.3	20.6	18.3	24.2	24.5	20.8	22.9
Potassium	---	---	---	1520	1170	1260	1370	1300	1050	2120	1460	1670
Silver	4.4	1,000	390	0.6	0.6	0.6	0.5	0.5	0.7	0.6	0.5	0.6
Sodium	---	---	---	878	672	1140	1500	835	798	641	1390	2330
Vanadium	550	1,400	550	34.1	39.6	31.9	32.9	28.7	38.5	29.6	27.7	29.7
Zinc	5,100	61,000	23000	64.8	51.1	61.5	74.6	55.4	55.3	63.5	63.3	113
TCLP Metals, mg/L												
Class I Groundwater ^{d/}												
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			<0.1	<0.1	0.1	0.2	<0.1	<0.1	1.4	3	<0.1
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	0.15			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L												
Class I Groundwater ^{d/}												
Arsenic	0.05			0.014	0.024	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<0.004	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chromium	0.1			0.082	0.111	0.135	0.057	0.105	0.071	0.028	0.036	0.029
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			0.071	0.087	0.122	0.038	0.087	0.044	0.021	0.031	0.031
Iron	5			91.3	133	137	53.9	92.4	67.3	28.9	41	36.2
Lead	0.0075			0.044	0.032	0.055	0.019	0.04	0.02	0.009	0.016	0.052
Manganese	0.15			0.6	0.4	0.3	0.1	0.4	0.2	0.2	0.2	0.2
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			0.3	0.3	0.4	0.2	0.3	0.2	<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.

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 Results
Soils for Unrestricted Reuse or Disposal at CCDD Facilities
Manhattan-Monee Road
Manhattan, Will County, Illinois
BDE Sequence No.: 21185
PTB: 178-008/HH-1, Work Order No.: 036A

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/}	3496-54-02	3496-62-01	3496-75-07	3496-76-08
				(0-2)	(0-2)	(0-2)	(0-2)
				2/4/2020	2/3/2020	2/3/2020	2/3/2020
				3496-54	3496-54	3496-75	3496-76
Parameter							
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.31	8.88	7.85	7.38
VOCs, mg/kg							
SVOCs, mg/kg							
Total Metals, mg/kg							
Arsenic	11.3 / 13	61	13	7.6	<1.0	7.1	11.3
Barium	1,500	14,000	5500	178	16.4	80.6	125
Beryllium	22	410	160	0.9	<0.5	0.6	0.8
Calcium	---	---	---	3300	159000	3700	3490
Chromium	21	690	230	22	5.8	19.8	21.2
Cobalt	20	12,000	4700	16	1.3	8	16.5
Copper	2,900	8,200	2900	20.3	5.9	21.2	20.4
Iron	15,000 / 15,900	---	---	25500	4660	21500	24700
Lead	107	700	400	24.6	6.7	21.9	20.9
Magnesium	325,000	730,000	325000	4220	81700	3900	3630
Manganese	630 / 636	4,100	1600	861	191	332	904
Mercury	0.89	0.1	10	0.06	<0.05	<0.05	<0.05
Nickel	100	4,100	1600	23.8	4.2	21.7	29.1
Potassium	---	---	---	1430	589	1530	1160
Silver	4.4	1,000	390	0.6	<0.2	0.8	0.8
Sodium	---	---	---	2090	781	1370	1320
Vanadium	550	1,400	550	31.8	5.5	27.9	32.2
Zinc	5,100	61,000	23000	60.2	28.9	62.9	49.9
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		<1.00	<1.00	<1.00	<1.00
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	0.7
Lead		0.0075		<0.005	<0.005	<0.005	<0.005
Manganese		0.15		<0.1	0.9	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
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		0.011	<0.010	0.019	<0.010
Barium		2		<1.0	<1.0	<1.0	<1.0
Beryllium		0.004		<0.004	<0.004	<0.004	<0.004
Chromium		0.1		0.097	0.005	0.091	0.046
Cobalt		1		<0.1	<0.1	<0.1	<0.1
Copper		0.65		0.059	<0.005	0.072	0.031
Iron		5		88.2	2	92.6	45.1
Lead		0.0075		0.035	0.005	0.044	0.011
Manganese		0.15		0.2	<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
Silver		0.05		<0.005	<0.005	<0.005	<0.005
Zinc		5		0.2	<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

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

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

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

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration



February 05, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0484
Date Received: January 28, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	86.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/29/20				
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: 02/01/20				
Preparation Date: 01/28/20				
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	



Analytical Report

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Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/01/20		Preparation Date: 01/28/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

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Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/01/20				Preparation Date: 01/28/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	1.0	1.0	mg/kg	
Arsenic	11.1	1.0	mg/kg	
Barium	88.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,800	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	11.0	0.5	mg/kg	
Copper	27.8	0.5	mg/kg	
Iron	27,900	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	17,600	50	mg/kg	
Manganese	458	0.5	mg/kg	
Nickel	29.4	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	377	50	mg/kg	



Analytical Report

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Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.6	1.0	mg/kg	
Zinc	59.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/30/20 9:30				
pH @ 25°C, 1:2	7.95		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/31/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/31/20		Preparation Date: 01/29/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.2	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: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:40

Sample ID: 3496-7-01 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-011

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 66.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 64.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 76	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	75.91		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/03/20				
Preparation Date: 01/29/20				
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	



Analytical Report

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Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/03/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/03/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	97.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	8,380	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	18.6	0.5	mg/kg	
Magnesium	6,170	50	mg/kg	
Manganese	300	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	431	50	mg/kg	



Analytical Report

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Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.5	1.0	mg/kg	
Zinc	76.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/29/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/31/20 11:15				
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 01/29/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/03/20		Preparation Date: 01/30/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/03/20				
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:20

Sample ID: 3496-21-04 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.026	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.079	0.005	mg/L	
Iron	85.5	0.1	mg/L	
Lead	0.032	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/28/20

Sample No: 20-0484-032

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 88.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 76.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.2	35 - 105	
8270C	Phenol-d5 (surr)	%R: 69.4	50 - 100	



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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:25

Sample ID: 3496-21-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	82.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



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Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/29/20				
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	



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Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/29/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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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: 02/04/20				Preparation Date: 01/29/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.7	1.0	mg/kg	
Barium	62.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,400	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	26.3	0.5	mg/kg	
Iron	25,800	5.0	mg/kg	
Lead	18.8	0.5	mg/kg	
Magnesium	18,800	50	mg/kg	
Manganese	464	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	451	50	mg/kg	



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Date Received: 01/28/20

Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	24.0	1.0	mg/kg	
Zinc	70.1	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.69		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:25

Sample ID: 3496-21-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 01/30/20		Preparation Date: 01/29/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.062	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.070	0.005	mg/L	
Iron	72.8	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:25

Sample ID: 3496-21-05 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-033

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.4	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.3	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 70.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 68.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 81.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 73.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/29/20				
Total Solids	78.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/30/20				Preparation Date: 01/29/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	127	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,220	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	14.2	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	2,240	50	mg/kg	
Manganese	1,320	0.5	mg/kg	
Nickel	16.9	0.5	mg/kg	
Potassium	1,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,650	50	mg/kg	



Analytical Report

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Date Collected: 01/27/20

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Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/30/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/29/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.1	1.0	mg/kg	
Zinc	52.3	1.0	mg/kg	
Total Mercury Analysis Date: 01/29/20	Method: 7471B			
Mercury	0.06	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 01/31/20 11:15	Method: 9045D 2004			
pH @ 25°C, 1:2	8.18		Units	
TCLP Extraction Analysis Date: 01/29/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 01/31/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 01/28/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C				
Analysis Date: 01/30/20				
Preparation Method 3010A				
Preparation Date: 01/29/20				
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	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	43.7	0.1	mg/L	
Lead	0.022	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	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/30/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/27/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-26-03 (0-2)

Date Received: 01/28/20

Sample No: 20-0484-038

Date Reported: 02/05/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 67.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 72.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 82.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 70.2	50 - 100	



February 10, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0509
Date Received: January 29, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	77.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	238	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,190	50	mg/kg	
Chromium	24.1	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	28.0	0.5	mg/kg	
Iron	28,900	5.0	mg/kg	
Lead	16.4	0.5	mg/kg	
Magnesium	4,760	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	22.2	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,430	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20	
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	38.9	1.0	mg/kg	
Zinc	81.6	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20		Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
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	0.097	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	84.9	0.1	mg/L	
Lead	0.021	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:33

Sample ID: 3496-16-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-001

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 56.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 72.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 72.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	83.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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

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Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/30/20				
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: 02/04/20				
Preparation Date: 01/30/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/04/20		Preparation Date: 01/30/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/04/20				Preparation Date: 01/30/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	143	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,000	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	30.2	0.5	mg/kg	
Magnesium	9,620	50	mg/kg	
Manganese	595	0.5	mg/kg	
Nickel	17.5	0.5	mg/kg	
Potassium	1,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	2,340	50	mg/kg	



Analytical Report

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Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.4	1.0	mg/kg	
Zinc	86.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/03/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/04/20		Preparation Date: 02/03/20		
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	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	45.2	0.1	mg/L	
Lead	0.034	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 14:28

Sample ID: 3496-17-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-002

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 67.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 63.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 73.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/30/20 16:09				
Total Solids	72.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/05/20				
Preparation Date: 02/02/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/05/20		Preparation Date: 02/02/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/05/20				Preparation Date: 02/02/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/03/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	143	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,670	50	mg/kg	
Chromium	21.3	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	24.3	0.5	mg/kg	
Iron	24,300	5.0	mg/kg	
Lead	17.2	0.5	mg/kg	
Magnesium	3,710	50	mg/kg	
Manganese	425	0.5	mg/kg	
Nickel	22.3	0.5	mg/kg	
Potassium	2,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	3,630	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/03/20	Method: 6010C	Preparation Method 3050B Preparation Date: 01/30/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.7	1.0	mg/kg	
Zinc	79.2	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/03/20 10:00	Method: 9045D 2004			
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction Analysis Date: 01/30/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3010A Preparation Date: 01/31/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.7	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 Analysis Date: 02/04/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/28/20
Project ID:	IDOT WO 36 Manhattan-Monee 81.0220509.73	Time Collected:	9:35
Sample ID:	3496-24-03 (0-2)	Date Received:	01/29/20
Sample No:	20-0509-018	Date Reported:	02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction Method: 1312				
Analysis Date: 01/30/20				
SPLP Metals Extraction Complete				
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 02/04/20 Preparation Date: 02/03/20				
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	0.037	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	34.9	0.1	mg/L	
Lead	0.014	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 9:35

Sample ID: 3496-24-03 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-018

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.8	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 96.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 68.7	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 59.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 79.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
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Solids, Total **Method: 2540B**

Analysis Date: 01/30/20 16:09

Total Solids	81.19		%	
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Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/31/20

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: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/31/20				
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: 02/06/20				
Preparation Date: 02/03/20				
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	



Analytical Report

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Date Collected: 01/28/20

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Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/03/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

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Date Collected: 01/28/20

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Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/03/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 01/31/20				Preparation Date: 01/30/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.9	1.0	mg/kg	
Barium	76.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,830	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	10.4	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	27,500	5.0	mg/kg	
Lead	28.2	0.5	mg/kg	
Magnesium	3,590	50	mg/kg	
Manganese	713	0.5	mg/kg	
Nickel	22.9	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,880	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 01/31/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/30/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.7	1.0	mg/kg	
Zinc	65.5	1.0	mg/kg	
Total Mercury Analysis Date: 01/30/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/04/20 9:00		Method: 9045D 2004		
pH @ 25°C, 1:2	8.20		Units	
TCLP Extraction Analysis Date: 01/30/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/03/20		Method: 6010C		Preparation Method 3010A Preparation Date: 01/31/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/04/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 01/30/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/05/20		Preparation Date: 02/04/20		
Arsenic	0.023	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.066	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.065	0.005	mg/L	
Iron	82.8	0.1	mg/L	
Lead	0.035	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: 02/04/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/28/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-30-01 (0-2)

Date Received: 01/29/20

Sample No: 20-0509-034

Date Reported: 02/10/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 77.9	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 80.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 88.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 72	50 - 100	



February 14, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0536
Date Received: January 30, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	84.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/03/20				
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: 02/06/20				
Preparation Date: 02/04/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/06/20				Preparation Date: 02/04/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/05/20				Preparation Date: 01/31/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	49.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	179,000	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	21.3	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	21,000	50	mg/kg	
Manganese	245	0.5	mg/kg	
Nickel	19.4	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,310	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/05/20		Method: 6010C		Preparation Method 3050B Preparation Date: 01/31/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	18.2	1.0	mg/kg	
Zinc	40.7	1.0	mg/kg	
Total Mercury Analysis Date: 01/31/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/05/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.66		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/06/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/04/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/05/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/06/20		Preparation Date: 02/04/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	18.8	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/29/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 10:29

Sample ID: 3496-5-04 (0-2)

Date Received: 01/30/20

Sample No: 20-0536-011

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 88.1	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 103.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 102	35 - 105	
8270C	Phenol-d5 (surr)	%R: 92.9	50 - 100	



February 14, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0561
Date Received: January 31, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:25

Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	85.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:25

Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/05/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:25

Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 9:25

Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/08/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	23.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,600	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	23,100	50	mg/kg	
Manganese	248	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,230	50	mg/kg	



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Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/03/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	22.0	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Analysis Date: 02/03/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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: 02/07/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 9:25

Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.021	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	21.4	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-31-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-001

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 103.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.3	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 119.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 95.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 84	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 89.9	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 105	35 - 105	
8270C	Phenol-d5 (surr)	%R: 97	50 - 100	



Analytical Report

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Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 9:29

Sample ID: 3496-33-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	76.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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 Received: 01/31/20

Sample No: 20-0561-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/04/20				
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: 02/08/20				
Preparation Date: 02/05/20				
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	



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Sample ID: 3496-33-01 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/08/20		Preparation Date: 02/05/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample No: 20-0561-002

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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: 02/08/20				Preparation Date: 02/05/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/04/20				Preparation Date: 02/03/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	109	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,390	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	27,300	5.0	mg/kg	
Lead	28.7	0.5	mg/kg	
Magnesium	4,300	50	mg/kg	
Manganese	334	0.5	mg/kg	
Nickel	19.8	0.5	mg/kg	
Potassium	1,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,620	50	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/04/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/03/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	38.3	1.0	mg/kg	
Zinc	59.4	1.0	mg/kg	
Total Mercury Analysis Date: 02/03/20		Method: 7471B		
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20		Method: 9045D 2004		
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Analysis Date: 02/03/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 01/31/20

Sample No: 20-0561-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/03/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/10/20		Preparation Date: 02/06/20		
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	0.067	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	66.9	0.1	mg/L	
Lead	0.014	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: 02/06/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample No: 20-0561-002

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 112.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 66.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 88.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.8	35 - 105	
8270C	Phenol-d5 (surr)	%R: 80.7	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:27

Sample ID: 3496-43-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	73.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:27

Sample ID: 3496-43-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:27

Sample ID: 3496-43-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:27

Sample ID: 3496-43-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,750	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	18.0	0.5	mg/kg	
Magnesium	3,770	50	mg/kg	
Manganese	595	0.5	mg/kg	
Nickel	24.5	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	641	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:27

Sample ID: 3496-43-05 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-025

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 02/10/20		Preparation Date: 02/04/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.6	1.0	mg/kg	
Zinc	63.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 02/05/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 02/06/20 9:30				
pH @ 25°C, 1:2	7.65		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 02/04/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311				
Method: 6010C		Preparation Method 3010A		
Analysis Date: 02/07/20		Preparation Date: 02/06/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.4	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	
TCLP Mercury Method 1311				
Method: 7470A				
Analysis Date: 02/07/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	01/30/20
Project ID:	IDOT WO36 Manhattan-Monee 81.0220509.73	Time Collected:	13:27
Sample ID:	3496-43-05 (0-2)	Date Received:	01/31/20
Sample No:	20-0561-025	Date Reported:	02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.028	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.021	0.005	mg/L	
Iron	28.9	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-43-05 (0-2)
Sample No: 20-0561-025

Date Collected: 01/30/20
Time Collected: 13:27
Date Received: 01/31/20
Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 106.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.7	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 84.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 86.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	75.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/10/20				
Preparation Date: 02/09/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/10/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/10/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	113	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,520	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	16.3	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	27.7	0.5	mg/kg	
Magnesium	2,800	50	mg/kg	
Manganese	1,220	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	0.5	0.2	mg/kg	
Sodium	1,390	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.7	1.0	mg/kg	
Zinc	63.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	7.75		Units	
TCLP Extraction Analysis Date: 02/04/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	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	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:35

Sample ID: 3496-43-07 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-027

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	41.0	0.1	mg/L	
Lead	0.016	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-43-07 (0-2)
Sample No: 20-0561-027

Date Collected: 01/30/20
Time Collected: 13:35
Date Received: 01/31/20
Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 89	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 84	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 62.6	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 98.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.1	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/31/20				
Total Solids	75.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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	10.3	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: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/05/20				
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: 02/11/20				
Preparation Date: 02/09/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/09/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/09/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/10/20				Preparation Date: 02/04/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.3	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,070	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	33.8	0.5	mg/kg	
Iron	26,000	5.0	mg/kg	
Lead	64.8	0.5	mg/kg	
Magnesium	4,510	50	mg/kg	
Manganese	612	0.5	mg/kg	
Nickel	22.9	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,330	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/10/20		Method: 6010C		Preparation Method 3050B Preparation Date: 02/04/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.7	1.0	mg/kg	
Zinc	113	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20		Method: 7471B		
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/06/20 9:30		Method: 9045D 2004		
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Analysis Date: 02/04/20		Method: 1311		
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/07/20		Method: 6010C		Preparation Method 3010A Preparation Date: 02/06/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/07/20		Method: 7470A		
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/30/20

Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73

Time Collected: 13:45

Sample ID: 3496-43-09 (0-2)

Date Received: 01/31/20

Sample No: 20-0561-029

Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/04/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	36.2	0.1	mg/L	
Lead	0.052	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: 02/10/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO36 Manhattan-Monee 81.0220509.73
Sample ID: 3496-43-09 (0-2)
Sample No: 20-0561-029

Date Collected: 01/30/20
Time Collected: 13:45
Date Received: 01/31/20
Date Reported: 02/14/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 107.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 91.6	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 73.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 97.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 84.3	50 - 100	



February 17, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0602
Date Received: February 03, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 1002922019-1: effective 08/22/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal Cleghorn
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:10

Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	74.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:10

Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:10

Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	133	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	5,030	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	7.4	0.5	mg/kg	
Copper	16.4	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	37.1	0.5	mg/kg	
Magnesium	3,320	50	mg/kg	
Manganese	808	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	579	50	mg/kg	



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Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/05/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.2	1.0	mg/kg	
Zinc	72.6	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction Analysis Date: 02/05/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.5	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	
TCLP Mercury Method 1311 Analysis Date: 02/11/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:10

Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.033	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.026	0.005	mg/L	
Iron	34.3	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-32-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-004

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 107.6	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 108.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 107.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 89.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 116.3	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 95.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83	50 - 100	



Analytical Report

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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:06

Sample ID: 3496-32-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	73.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 3496-32-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



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Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Sample ID: 3496-32-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.8	1.0	mg/kg	
Barium	120	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,400	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	17.6	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	44.2	0.5	mg/kg	
Magnesium	11,000	50	mg/kg	
Manganese	867	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	674	50	mg/kg	



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Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/06/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/05/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	29.4	1.0	mg/kg	
Zinc	66.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/05/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/07/20	Method: 9045D 2004			
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction Analysis Date: 02/05/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	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	
TCLP Mercury Method 1311 Analysis Date: 02/11/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



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Time Collected: 13:06

Sample ID: 3496-32-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.039	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	38.2	0.1	mg/L	
Lead	0.016	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:06

Sample ID: 3496-32-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-005

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.6	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 99.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 80.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 64.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 105.5	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 86.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 76.2	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	78.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	1.0	1.0	mg/kg	
Arsenic	8.7	1.0	mg/kg	
Barium	108	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,180	50	mg/kg	
Chromium	21.6	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	27,300	5.0	mg/kg	
Lead	14.2	0.5	mg/kg	
Magnesium	4,200	50	mg/kg	
Manganese	527	0.5	mg/kg	
Nickel	32.8	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,080	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/06/20		Preparation Method 3050B		
		Preparation Date: 02/05/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.4	1.0	mg/kg	
Zinc	65.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/05/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/07/20				
pH @ 25°C, 1:2	8.15		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/11/20		Preparation Method 3010A		
		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.038	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.144	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.173	0.005	mg/L	
Iron	174	0.1	mg/L	
Lead	0.031	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 13:00

Sample ID: 3496-32-07 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-007

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 105.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 82.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 79.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 98.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	71.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	147	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	7,020	50	mg/kg	
Chromium	20.0	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	17.6	0.5	mg/kg	
Magnesium	4,610	50	mg/kg	
Manganese	415	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	2,090	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	599	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/06/20				Preparation Date: 02/05/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	30.8	1.0	mg/kg	
Zinc	76.7	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/05/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/07/20				
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.043	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.027	0.005	mg/L	
Iron	46.0	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 12:55

Sample ID: 3496-32-08 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-008

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 108.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 108.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 109.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 92.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 81.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 104.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 102.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 93.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	78.84		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

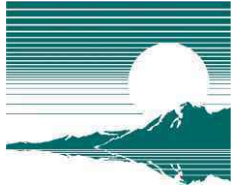
Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/06/20				
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: 02/11/20				
Preparation Date: 02/10/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/10/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	136	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,390	50	mg/kg	
Chromium	21.2	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	14.7	0.5	mg/kg	
Iron	24,800	5.0	mg/kg	
Lead	14.5	0.5	mg/kg	
Magnesium	3,790	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	19.1	0.5	mg/kg	
Potassium	1,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,130	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/12/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	35.3	1.0	mg/kg	
Zinc	52.3	1.0	mg/kg	
Total Mercury Analysis Date: 02/06/20	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/10/20 10:30	Method: 9045D 2004			
pH @ 25°C, 1:2	7.84		Units	
TCLP Extraction Analysis Date: 02/05/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/11/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/11/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
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	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	51.5	0.1	mg/L	
Lead	0.008	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:26

Sample ID: 3496-32-11 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-011

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 104.9	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 106.8	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 85.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 74.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 75.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 91.6	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 89.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 82.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	74.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/11/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.7	1.0	mg/kg	
Barium	127	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,060	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	25,000	5.0	mg/kg	
Lead	23.5	0.5	mg/kg	
Magnesium	3,880	50	mg/kg	
Manganese	711	0.5	mg/kg	
Nickel	22.9	0.5	mg/kg	
Potassium	1,520	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	878	50	mg/kg	



Analytical Report

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Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	34.1	1.0	mg/kg	
Zinc	64.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	0.11	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:13

Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.014	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	0.082	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	91.3	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



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Sample ID: 3496-38-01 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-014

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 86.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 76.7	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 97.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 102.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 87.9	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	77.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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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Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/11/20				
Preparation Date: 02/11/20				
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	



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Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/11/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/11/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.1	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,330	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	14.8	0.5	mg/kg	
Copper	18.8	0.5	mg/kg	
Iron	26,500	5.0	mg/kg	
Lead	20.1	0.5	mg/kg	
Magnesium	3,980	50	mg/kg	
Manganese	563	0.5	mg/kg	
Nickel	19.5	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	672	50	mg/kg	



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Time Collected: 11:07

Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	39.6	1.0	mg/kg	
Zinc	51.1	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.86		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	0.024	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.111	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.087	0.005	mg/L	
Iron	133	0.1	mg/L	
Lead	0.032	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:07

Sample ID: 3496-38-02 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-015

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98.5	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 99.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 91.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 78.5	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 82.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 100.2	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 99.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 88.6	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	75.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/12/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/12/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	137	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,630	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	23.9	0.5	mg/kg	
Iron	24,000	5.0	mg/kg	
Lead	16.7	0.5	mg/kg	
Magnesium	4,150	50	mg/kg	
Manganese	247	0.5	mg/kg	
Nickel	20.3	0.5	mg/kg	
Potassium	1,260	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,140	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	31.9	1.0	mg/kg	
Zinc	61.5	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	8.29		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20				Preparation Date: 02/10/20
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/11/20		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.135	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.122	0.005	mg/L	
Iron	137	0.1	mg/L	
Lead	0.055	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	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 11:01

Sample ID: 3496-38-03 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-016

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 102.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 79.1	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 72.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 83.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 91.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 81.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	68.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/12/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/12/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	148	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,200	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	6,830	50	mg/kg	
Manganese	500	0.5	mg/kg	
Nickel	18.3	0.5	mg/kg	
Potassium	1,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	835	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/12/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	28.7	1.0	mg/kg	
Zinc	55.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.67		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
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	0.105	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.087	0.005	mg/L	
Iron	92.4	0.1	mg/L	
Lead	0.040	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	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:57

Sample ID: 3496-38-04 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-017

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.7	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102.4	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.4	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 69.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 82.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78.3	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/04/20				
Total Solids	76.85		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/12/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/12/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/12/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	141	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,660	50	mg/kg	
Chromium	23.2	0.5	mg/kg	
Cobalt	10.8	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	25,900	5.0	mg/kg	
Lead	17.3	0.5	mg/kg	
Magnesium	4,740	50	mg/kg	
Manganese	472	0.5	mg/kg	
Nickel	24.2	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.7	0.2	mg/kg	
Sodium	798	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/12/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	38.5	1.0	mg/kg	
Zinc	55.3	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/06/20				
Mercury	0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.71		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/10/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/12/20		Preparation Date: 02/11/20		
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	0.071	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.044	0.005	mg/L	
Iron	67.3	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: 02/11/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 10:52

Sample ID: 3496-38-05 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-018

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 99	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 102	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.4	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 103.2	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 76.2	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 70.3	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 84.7	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 87.6	35 - 105	
8270C	Phenol-d5 (surr)	%R: 78	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	74.72		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/07/20				
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: 02/14/20				
Preparation Date: 02/11/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/14/20		Preparation Date: 02/11/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Collected: 01/31/20

Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/14/20				Preparation Date: 02/11/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/13/20				Preparation Date: 02/07/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	132	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	6,450	50	mg/kg	
Chromium	21.0	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	24,700	5.0	mg/kg	
Lead	17.5	0.5	mg/kg	
Magnesium	4,300	50	mg/kg	
Manganese	184	0.5	mg/kg	
Nickel	20.6	0.5	mg/kg	
Potassium	1,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	1,500	50	mg/kg	



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Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3050B		
		Preparation Date: 02/07/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	32.9	1.0	mg/kg	
Zinc	74.6	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 02/07/20				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 02/10/20 10:30				
pH @ 25°C, 1:2	7.80		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 02/05/20				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 02/13/20		Preparation Method 3010A		
		Preparation Date: 02/11/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Project ID: IDOT W036 Manhattan-Monee 81.0220509.73

Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/05/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/13/20		Preparation Date: 02/11/20		
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	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.038	0.005	mg/L	
Iron	53.9	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	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

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Time Collected: 9:05

Sample ID: 3496-DUP-15 (0-2)

Date Received: 02/03/20

Sample No: 20-0602-042

Date Reported: 02/17/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 98	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 103.1	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.8	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 92	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 78.8	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 86.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 96.9	35 - 105	
8270C	Phenol-d5 (surr)	%R: 88.1	50 - 100	



February 19, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0635
Date Received: February 04, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-62-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/05/20				
Total Solids	94.69		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-62-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/10/20				
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: 02/15/20				
Preparation Date: 02/12/20				
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	



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Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/12/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/12/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/10/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	16.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	159,000	50	mg/kg	
Chromium	5.8	0.5	mg/kg	
Cobalt	1.3	0.5	mg/kg	
Copper	5.9	0.5	mg/kg	
Iron	4,660	5.0	mg/kg	
Lead	6.7	0.5	mg/kg	
Magnesium	81,700	50	mg/kg	
Manganese	191	0.5	mg/kg	
Nickel	4.2	0.5	mg/kg	
Potassium	589	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	781	50	mg/kg	



Analytical Report

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Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-62-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/10/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	5.5	1.0	mg/kg	
Zinc	28.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/07/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/12/20 7:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.88		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/17/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-62-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/14/20		Preparation Date: 02/12/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.0	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: 02/12/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 10:26

Sample ID: 3496-62-01 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-015

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 94.8	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 108.1	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.4	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 97	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 77.9	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 94.8	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 100.4	35 - 105	
8270C	Phenol-d5 (surr)	%R: 83.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/06/20				
Total Solids	78.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/17/20				
Preparation Date: 02/13/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	80.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,700	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	21.9	0.5	mg/kg	
Magnesium	3,900	50	mg/kg	
Manganese	332	0.5	mg/kg	
Nickel	21.7	0.5	mg/kg	
Potassium	1,530	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,370	50	mg/kg	



Analytical Report

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Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Metals Analysis Date: 02/14/20	Method: 6010C	Preparation Method 3050B Preparation Date: 02/12/20		
Thallium	< 1.0	1.0	mg/kg	N
Vanadium	27.9	1.0	mg/kg	
Zinc	62.9	1.0	mg/kg	
Total Mercury Analysis Date: 02/13/20	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 02/13/20	Method: 9045D 2004			
pH @ 25°C, 1:2	7.85		Units	
TCLP Extraction Analysis Date: 02/06/20	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 02/18/20	Method: 6010C	Preparation Method 3010A Preparation Date: 02/13/20		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 02/12/20	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/06/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
Arsenic	0.019	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.091	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.072	0.005	mg/L	
Iron	92.6	0.1	mg/L	
Lead	0.044	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 02/13/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 13:52

Sample ID: 3496-75-07 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-033

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101.3	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.5	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.6	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 79.6	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 61.3	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 48.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 73.4	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 70.3	35 - 105	
8270C	Phenol-d5 (surr)	%R: 58.8	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	74.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

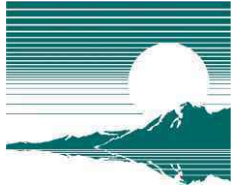
Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/11/20				
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: 02/15/20				
Preparation Date: 02/13/20				
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/15/20		Preparation Date: 02/13/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/15/20				Preparation Date: 02/13/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/14/20				Preparation Date: 02/12/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	11.3	1.0	mg/kg	
Barium	125	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,490	50	mg/kg	
Chromium	21.2	0.5	mg/kg	
Cobalt	16.5	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	24,700	5.0	mg/kg	
Lead	20.9	0.5	mg/kg	
Magnesium	3,630	50	mg/kg	
Manganese	904	0.5	mg/kg	
Nickel	29.1	0.5	mg/kg	
Potassium	1,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.8	0.2	mg/kg	
Sodium	1,320	50	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/17/20		Preparation Date: 02/12/20		
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	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	45.1	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/03/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 12:52

Sample ID: 3496-76-08 (0-2)

Date Received: 02/04/20

Sample No: 20-0635-044

Date Reported: 02/19/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits</i> <i>Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 100.2	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 104.2	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.5	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 62.8	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 61.4	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 81.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 77.7	35 - 105	
8270C	Phenol-d5 (surr)	%R: 68.7	50 - 100	



February 20, 2020

Ms. Jill Connolly
HUFF & HUFF INC.
915 Harger Road
Suite 330
Oak Brook, IL 60523

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73
First Environmental File ID: 20-0676
Date Received: February 05, 2020

Dear Ms. Jill Connolly:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number 004324: effective 04/23/2019 through 02/28/2020.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:17

Sample ID: 3496-54-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 02/07/20				
Total Solids	79.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/04/20

Project ID: IDOT WO 36 Manhattan-Monee 81.0220509.73

Time Collected: 11:17

Sample ID: 3496-54-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 02/12/20				
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: 02/17/20				
Preparation Date: 02/14/20				
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	



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Time Collected: 11:17

Sample ID: 3496-54-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 02/17/20		Preparation Date: 02/14/20		
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
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	



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Time Collected: 11:17

Sample ID: 3496-54-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 02/17/20				Preparation Date: 02/14/20
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 02/17/20				Preparation Date: 02/13/20
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	178	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,300	50	mg/kg	
Chromium	22.0	0.5	mg/kg	
Cobalt	16.0	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	25,500	5.0	mg/kg	
Lead	24.6	0.5	mg/kg	
Magnesium	4,220	50	mg/kg	
Manganese	861	0.5	mg/kg	
Nickel	23.8	0.5	mg/kg	
Potassium	1,430	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	2,090	50	mg/kg	



Analytical Report

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Sample ID: 3496-54-02 (0-2)

Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Extraction		Method: 1312		
Analysis Date: 02/10/20				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 02/18/20		Preparation Date: 02/17/20		
Arsenic	0.011	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.097	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.059	0.005	mg/L	
Iron	88.2	0.1	mg/L	
Lead	0.035	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: 02/14/20				
Mercury	< 0.0005	0.0005	mg/L	



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Date Received: 02/05/20

Sample No: 20-0676-003

Date Reported: 02/20/20

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Sample QC Summary: Surrogate Recovery				
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>	<i>%R Limits Low High</i>	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 101	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R: 105.7	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 111.2	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 71.9	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R: 57	45 - 112	
8270C	2-Fluorophenol (Surr)	%R: 63	41 - 84	
8270C	d14-Terphenyl (Surr)	%R: 85.1	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R: 75.5	35 - 105	
8270C	Phenol-d5 (surr)	%R: 67.6	50 - 100	



Huff & Huff, a Subsidiary of GZA