



**GRANGER PARK – WATER QUALITY POND
STORMWATER IMPROVEMENT PROJECT**

CITY OF LAGRANGE

ADDENDUM NO. 2

FEBRUARY 28, 2017

To: Bidders

From: City of LaGrange and Rindt-McDuff Associates

CONTRACTOR QUESTIONS/COMMENTS:

1 – Has the dredge material been tested?

Response 1: A Pond Sediment Analysis Report was prepared for this project (attached). The material was found to be non-hazardous.

2 – Does the City have a potential site the dredged materials can be disposed on? Landfill?

Response 2: A potential non-landfill disposal site was identified by the City (see Dredging Note 4 on Sheet 4 of the Drawings). Any non-landfill site selected will require additional erosion and sediment control measures.

3 – How does the construction of this project impact the construction of the Thread Trail? The boardwalk will have to be delayed until after this work is complete correct?

Response 3: The City will coordinate with the Thread Trail contractor to minimize conflict between the two projects. Correct, the boardwalk will be delayed until the pond improvement work is complete in that area.

4 – Is this project lump sum?

Response 4: Yes.

5 – Can we get the cad files to verify haul off?

Response 5: CAD files will be provided to the awarded Contractor.

ATTACHMENTS

Pond Sediment Analysis Results Summary and Sample Location Map
Pond Sediment Analysis Report



GRANGER PARK WATER QUALITY POND SEDIMENT ANALYSIS RESULTS SUMMARY

Rindt-McDuff Associates visited the project site on 2/20/17 to collect sediment samples from the pond. Samples were collected from three locations as indicated in the attached location map. The samples were delivered to an independent environmental laboratory to be analyzed for RCRA metals, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs).

A copy of the analysis report is attached and a summary of the results is provided in the table below. Based on the analysis, low concentrations of some chemicals were found to be present; however, the detections were much lower than the limits requiring reporting to the state. Therefore, it is not anticipated that dredged material from the pond would require special handling or disposal procedures.

Analysis	Sample Results			NC ¹
	01	02	03	
VOCs	BRL	BRL	BRL	-
PAHs:				
Phenanthrene (ug/Kg)	BRL	460	BRL	110,000
Fluoranthene (ug/Kg)	840	950	BRL	500,000
Pyrene (ug/Kg)	780	750	BRL	500,000
Chrysene (ug/Kg)	BRL	BRL	BRL	5,000
Benzo(b)fluoranthene (ug/Kg)	930	550	BRL	5,000
Metals:				
Barium (mg/Kg)	103	25.1	95.4	500
Chromium (mg/Kg)	42.6	24.4	42.36	1,200
Lead (mg/Kg)	35.1	9.47	27.4	400
PCBs	BRL	BRL	BRL	-

BRL = Below Reporting Limit
 ug/Kg = microgram per Kilogram
 mg/Kg = milligram per Kilogram
 NC = Notification Concentration

Notes:

1. NC based on Rules of GA DNR EPD Ch 391-3-19, Hazardous Site Response
2. All contaminants tested that not shown in table above were BRL

POND SEDIMENT SAMPLE LOCATION MAP





ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 27, 2017

Kevin Roe
Rindt-McDuff Associates, Inc.
334 Cherokee Street
Marietta GA 30060

TEL: (770) 427-8123
FAX: (770) 425-8930

RE: LaGrange Site

Dear Kevin Roe:

Order No: 1702H36

Analytical Environmental Services, Inc. received 4 samples on 2/20/2017 2:27:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Jessica Shilling
Project Manager



COMPANY: Rindt-McDuff Associates (RMA)		ADDRESS: 334 Cherokee St Marietta, GA 30060			ANALYSIS REQUESTED								Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers																												
PHONE: 770 427 8123		FAX: 770 425 8930			<table border="1"> <tr> <td>PAHs</td> <td>VOCs</td> <td>RCRA METALS</td> <td>PCBS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="15">PRESERVATION (See codes)</td> </tr> </table>								PAHs	VOCs		RCRA METALS	PCBS												PRESERVATION (See codes)														
PAHs	VOCs	RCRA METALS	PCBS																																								
PRESERVATION (See codes)																																											
SAMPLED BY: Kevin Roe		SIGNATURE: <i>[Signature]</i>			#		SAMPLE ID		SAMPLED		Grab		Composite		Matrix (See codes)																												
		DATE		TIME																																							
1	01	2/20/17	11:05	X		SE	X	X	X	X							6																										
2	02	2/20/17	11:10	X		SE	X	X	X	X							6																										
3	03	2/20/17	11:30	X		SE	X	X	X	X							6																										
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RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION								RECEIPT																											
1: <i>[Signature]</i>		2:27		2: <i>[Signature]</i>		2/20/17		PROJECT NAME: LaGrange Site								Total # of Containers 18																											
2: <i>[Signature]</i>		2/20/17		3: <i>[Signature]</i>				PROJECT #: R2016-119								Turnaround Time Request																											
3: <i>[Signature]</i>				3: <i>[Signature]</i>				SITE ADDRESS: Granges Park								<input checked="" type="radio"/> Standard 5 Business Days																											
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Kevin Roe								<input type="radio"/> 2 Business Day Rush																											
				OUT / / VIA:				INVOICE TO: krroe@rindt-mcduff.com								<input type="radio"/> Next Business Day Rush																											
				IN / / VIA:				(IF DIFFERENT FROM ABOVE)								<input type="radio"/> Same Day Rush (auth req.)																											
				CLIENT / / VIA:				QUOTE #: _____ PO#: _____								<input type="radio"/> Other _____																											
				GREYHOUND / / VIA:												STATE PROGRAM (if any): _____																											
				OTHER / / VIA:												E-mail? <input checked="" type="radio"/> N; Fax? Y/N																											
																DATA PACKAGE: I II III IV																											

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Rindt-McDuff Associates, Inc.

Project: LaGrange Site

Lab ID: 1702H36

Case Narrative

Sample Receiving Nonconformance:

Due to melted ice in the cooler, label became smeared and illegible. Laboratory proceeded by matching the bottle type to the analysis requested. Sample was logged in using the information provided by the Chain of Custody (COC).

A trip blank was provided but not listed on the COC.

Due to original soil vials being packed completely with sample, laboratory proceeded to create new vials using sample provided by the percent moisture sample jar per Kevin Roe via phone on 2/21/2017.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on samples 1702H36-001A, & -003 A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 01
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:05:00 AM
Lab ID: 1702H36-001	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B								
					(SW7471B)			
Mercury	BRL	0.209		mg/Kg-dry	238300	1	02/22/2017 18:37	JR
TCL VOLATILE ORGANICS SW8260B								
					(SW5035)			
1,1,1-Trichloroethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,1,2,2-Tetrachloroethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,1,2-Trichloroethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,1-Dichloroethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,1-Dichloroethene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2,4-Trichlorobenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2-Dibromo-3-chloropropane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2-Dibromoethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2-Dichlorobenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2-Dichloroethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,2-Dichloropropane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,3-Dichlorobenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
1,4-Dichlorobenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
2-Butanone	BRL	110		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
2-Hexanone	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
4-Methyl-2-pentanone	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Acetone	BRL	220		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Benzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Bromodichloromethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Bromoform	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Bromomethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Carbon disulfide	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Carbon tetrachloride	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Chlorobenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Chloroethane	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Chloroform	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Chloromethane	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
cis-1,2-Dichloroethene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
cis-1,3-Dichloropropene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Cyclohexane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Dibromochloromethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Dichlorodifluoromethane	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Ethylbenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Freon-113	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Isopropylbenzene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
m,p-Xylene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Methyl acetate	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Methyl tert-butyl ether	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 01
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:05:00 AM
Lab ID: 1702H36-001	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Methylene chloride	BRL	44		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
o-Xylene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Styrene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Tetrachloroethene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Toluene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
trans-1,2-Dichloroethene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
trans-1,3-Dichloropropene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Trichloroethene	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Trichlorofluoromethane	BRL	11		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Vinyl chloride	BRL	22		ug/Kg-dry	238421	1	02/22/2017 06:43	CJ
Surr: 4-Bromofluorobenzene	73.2	63-125		%REC	238421	1	02/22/2017 06:43	CJ
Surr: Dibromofluoromethane	108	69.9-123		%REC	238421	1	02/22/2017 06:43	CJ
Surr: Toluene-d8	85.3	70-122		%REC	238421	1	02/22/2017 06:43	CJ
POLYCHLORINATED BIPHENYLS SW8082A			(SW3550C)					
Aroclor 1016	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1221	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1232	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1242	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1248	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1254	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Aroclor 1260	BRL	78		ug/Kg-dry	238340	1	02/22/2017 17:53	SH
Surr: Decachlorobiphenyl	78.1	43.2-138		%REC	238340	1	02/22/2017 17:53	SH
Surr: Tetrachloro-m-xylene	88.5	46-128		%REC	238340	1	02/22/2017 17:53	SH
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Acenaphthylene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
1-Methylnaphthalene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
2-Methylnaphthalene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Acenaphthene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Fluorene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Phenanthrene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Anthracene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Fluoranthene	840	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Pyrene	780	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Benz(a)anthracene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Chrysene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Benzo(b)fluoranthene	930	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Benzo(k)fluoranthene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 01
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:05:00 AM
Lab ID: 1702H36-001	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D					(SW3550C)			
Benzo(a)pyrene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Dibenz(a,h)anthracene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Benzo(g,h,i)perylene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Indeno(1,2,3-cd)pyrene	BRL	770		ug/Kg-dry	238384	1	02/22/2017 23:35	RF
Surr: 2-Fluorobiphenyl	66.5	53.3-120		%REC	238384	1	02/22/2017 23:35	RF
Surr: 4-Terphenyl-d14	78.3	61.2-120		%REC	238384	1	02/22/2017 23:35	RF
Surr: Nitrobenzene-d5	64.5	52.7-120		%REC	238384	1	02/22/2017 23:35	RF
METALS, TOTAL SW6010D					(SW3050B)			
Arsenic	BRL	10.6		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Barium	103	10.6		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Cadmium	BRL	5.30		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Chromium	42.6	5.30		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Lead	35.1	10.6		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Selenium	BRL	10.6		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
Silver	BRL	5.30		mg/Kg-dry	238373	1	02/23/2017 17:45	JL
PERCENT MOISTURE D2216								
Percent Moisture	57.1	0		wt%	R337198	1	02/23/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 02
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:10:00 AM
Lab ID: 1702H36-002	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.131		mg/Kg-dry	238300	1	02/22/2017 18:40	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,1,2,2-Tetrachloroethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,1,2-Trichloroethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,1-Dichloroethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,1-Dichloroethene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2,4-Trichlorobenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2-Dibromo-3-chloropropane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2-Dibromoethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2-Dichlorobenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2-Dichloroethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,2-Dichloropropane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,3-Dichlorobenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
1,4-Dichlorobenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
2-Butanone	BRL	67		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
2-Hexanone	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Acetone	BRL	130		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Benzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Bromodichloromethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Bromoform	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Bromomethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Carbon disulfide	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Carbon tetrachloride	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Chlorobenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Chloroethane	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Chloroform	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Chloromethane	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
cis-1,2-Dichloroethene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
cis-1,3-Dichloropropene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Cyclohexane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Dibromochloromethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Ethylbenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Freon-113	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Isopropylbenzene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
m,p-Xylene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Methyl acetate	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Methyl tert-butyl ether	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 02
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:10:00 AM
Lab ID: 1702H36-002	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Methylene chloride	BRL	27		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
o-Xylene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Styrene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Tetrachloroethene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Toluene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
trans-1,2-Dichloroethene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
trans-1,3-Dichloropropene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Trichloroethene	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Trichlorofluoromethane	BRL	6.7		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Vinyl chloride	BRL	13		ug/Kg-dry	238421	1	02/22/2017 07:07	CJ
Surr: 4-Bromofluorobenzene	94.1	63-125		%REC	238421	1	02/22/2017 07:07	CJ
Surr: Dibromofluoromethane	101	69.9-123		%REC	238421	1	02/22/2017 07:07	CJ
Surr: Toluene-d8	97.7	70-122		%REC	238421	1	02/22/2017 07:07	CJ
POLYCHLORINATED BIPHENYLS SW8082A			(SW3550C)					
Aroclor 1016	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1221	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1232	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1242	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1248	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1254	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Aroclor 1260	BRL	45		ug/Kg-dry	238340	1	02/22/2017 18:23	SH
Surr: Decachlorobiphenyl	84.7	43.2-138		%REC	238340	1	02/22/2017 18:23	SH
Surr: Tetrachloro-m-xylene	105	46-128		%REC	238340	1	02/22/2017 18:23	SH
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Acenaphthylene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
1-Methylnaphthalene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
2-Methylnaphthalene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Acenaphthene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Fluorene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Phenanthrene	460	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Anthracene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Fluoranthene	950	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Pyrene	750	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Benz(a)anthracene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Chrysene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Benzo(b)fluoranthene	550	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Benzo(k)fluoranthene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 02
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:10:00 AM
Lab ID: 1702H36-002	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Benzo(a)pyrene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Dibenz(a,h)anthracene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Benzo(g,h,i)perylene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Indeno(1,2,3-cd)pyrene	BRL	450		ug/Kg-dry	238384	1	02/23/2017 00:03	RF
Surr: 2-Fluorobiphenyl	93.5	53.3-120		%REC	238384	1	02/23/2017 00:03	RF
Surr: 4-Terphenyl-d14	103	61.2-120		%REC	238384	1	02/23/2017 00:03	RF
Surr: Nitrobenzene-d5	91.6	52.7-120		%REC	238384	1	02/23/2017 00:03	RF
METALS, TOTAL SW6010D		(SW3050B)						
Arsenic	BRL	6.49		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Barium	25.1	6.49		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Cadmium	BRL	3.25		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Chromium	24.4	3.25		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Lead	9.47	6.49		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Selenium	BRL	6.49		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
Silver	BRL	3.25		mg/Kg-dry	238373	1	02/23/2017 17:48	JL
PERCENT MOISTURE D2216								
Percent Moisture	26.0	0		wt%	R337198	1	02/23/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
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- E Estimated (value above quantitation range)
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 03
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:30:00 AM
Lab ID: 1702H36-003	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TOTAL MERCURY SW7471B					(SW7471B)			
Mercury	BRL	0.429		mg/Kg-dry	238300	1	02/22/2017 18:42	JR
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
1,1,1-Trichloroethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,1,2,2-Tetrachloroethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,1,2-Trichloroethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,1-Dichloroethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,1-Dichloroethene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2,4-Trichlorobenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2-Dibromo-3-chloropropane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2-Dibromoethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2-Dichlorobenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2-Dichloroethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,2-Dichloropropane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,3-Dichlorobenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
1,4-Dichlorobenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
2-Butanone	BRL	190		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
2-Hexanone	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
4-Methyl-2-pentanone	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Acetone	BRL	380		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Benzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Bromodichloromethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Bromoform	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Bromomethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Carbon disulfide	39	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Carbon tetrachloride	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Chlorobenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Chloroethane	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Chloroform	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Chloromethane	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
cis-1,2-Dichloroethene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
cis-1,3-Dichloropropene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Cyclohexane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Dibromochloromethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Dichlorodifluoromethane	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Ethylbenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Freon-113	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Isopropylbenzene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
m,p-Xylene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Methyl acetate	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Methyl tert-butyl ether	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 03
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:30:00 AM
Lab ID: 1702H36-003	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Methylcyclohexane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Methylene chloride	BRL	76		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
o-Xylene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Styrene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Tetrachloroethene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Toluene	120	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
trans-1,2-Dichloroethene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
trans-1,3-Dichloropropene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Trichloroethene	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Trichlorofluoromethane	BRL	19		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Vinyl chloride	BRL	38		ug/Kg-dry	238421	1	02/22/2017 07:30	CJ
Surr: 4-Bromofluorobenzene	76.3	63-125		%REC	238421	1	02/22/2017 07:30	CJ
Surr: Dibromofluoromethane	101	69.9-123		%REC	238421	1	02/22/2017 07:30	CJ
Surr: Toluene-d8	92.9	70-122		%REC	238421	1	02/22/2017 07:30	CJ
POLYCHLORINATED BIPHENYLS SW8082A			(SW3550C)					
Aroclor 1016	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1221	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1232	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1242	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1248	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1254	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Aroclor 1260	BRL	150		ug/Kg-dry	238340	1	02/22/2017 18:53	SH
Surr: Decachlorobiphenyl	83.5	43.2-138		%REC	238340	1	02/22/2017 18:53	SH
Surr: Tetrachloro-m-xylene	93.9	46-128		%REC	238340	1	02/22/2017 18:53	SH
POLYAROMATIC HYDROCARBONS SW8270D			(SW3550C)					
Naphthalene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Acenaphthylene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
1-Methylnaphthalene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
2-Methylnaphthalene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Acenaphthene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Fluorene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Phenanthrene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Anthracene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Fluoranthene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Pyrene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Benz(a)anthracene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Chrysene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Benzo(b)fluoranthene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Benzo(k)fluoranthene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: 03
Project Name: LaGrange Site	Collection Date: 2/20/2017 11:30:00 AM
Lab ID: 1702H36-003	Matrix: Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
POLYAROMATIC HYDROCARBONS SW8270D		(SW3550C)						
Benzo(a)pyrene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Dibenz(a,h)anthracene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Benzo(g,h,i)perylene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Indeno(1,2,3-cd)pyrene	BRL	1500		ug/Kg-dry	238384	1	02/23/2017 00:31	RF
Surr: 2-Fluorobiphenyl	80.3	53.3-120		%REC	238384	1	02/23/2017 00:31	RF
Surr: 4-Terphenyl-d14	94	61.2-120		%REC	238384	1	02/23/2017 00:31	RF
Surr: Nitrobenzene-d5	78.3	52.7-120		%REC	238384	1	02/23/2017 00:31	RF
METALS, TOTAL SW6010D		(SW3050B)						
Arsenic	BRL	21.4		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Barium	95.4	21.4		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Cadmium	BRL	10.7		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Chromium	42.3	10.7		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Lead	27.4	21.4		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Selenium	BRL	21.4		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
Silver	BRL	10.7		mg/Kg-dry	238373	1	02/23/2017 17:51	JL
PERCENT MOISTURE D2216								
Percent Moisture	77.2	0		wt%	R337198	1	02/23/2017 15:00	BD

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: TRIP BLANK
Project Name: LaGrange Site	Collection Date: 2/20/2017
Lab ID: 1702H36-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,1,2-Trichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,1-Dichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,1-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2-Dibromoethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2-Dichloroethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,2-Dichloropropane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,3-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
1,4-Dichlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
2-Butanone	BRL	50		ug/L	238410	1	02/21/2017 23:43	BN
2-Hexanone	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
4-Methyl-2-pentanone	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
Acetone	BRL	50		ug/L	238410	1	02/21/2017 23:43	BN
Benzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Bromodichloromethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Bromoform	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Bromomethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Carbon disulfide	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Carbon tetrachloride	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Chlorobenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Chloroethane	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
Chloroform	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Chloromethane	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
cis-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
cis-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Cyclohexane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Dibromochloromethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Dichlorodifluoromethane	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
Ethylbenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Freon-113	BRL	10		ug/L	238410	1	02/21/2017 23:43	BN
Isopropylbenzene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
m,p-Xylene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Methyl acetate	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Methyl tert-butyl ether	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Methylcyclohexane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Methylene chloride	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
o-Xylene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 27-Feb-17

Client: Rindt-McDuff Associates, Inc.	Client Sample ID: TRIP BLANK
Project Name: LaGrange Site	Collection Date: 2/20/2017
Lab ID: 1702H36-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Tetrachloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Toluene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
trans-1,2-Dichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
trans-1,3-Dichloropropene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Trichloroethene	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Trichlorofluoromethane	BRL	5.0		ug/L	238410	1	02/21/2017 23:43	BN
Vinyl chloride	BRL	2.0		ug/L	238410	1	02/21/2017 23:43	BN
Surr: 4-Bromofluorobenzene	85.4	66.1-129		%REC	238410	1	02/21/2017 23:43	BN
Surr: Dibromofluoromethane	112	83.6-123		%REC	238410	1	02/21/2017 23:43	BN
Surr: Toluene-d8	100	81.8-118		%REC	238410	1	02/21/2017 23:43	BN

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked?					
29. Containers meet preservation guidelines?					
30. Was pH adjusted?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238300

Sample ID: MB-238300	Client ID:	Units: mg/Kg	Prep Date: 02/22/2017	Run No: 337100							
SampleType: MBLK	TestCode: TOTAL MERCURY SW7471B	BatchID: 238300	Analysis Date: 02/22/2017	Seq No: 7362735							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-238300	Client ID:	Units: mg/Kg	Prep Date: 02/22/2017	Run No: 337100							
SampleType: LCS	TestCode: TOTAL MERCURY SW7471B	BatchID: 238300	Analysis Date: 02/22/2017	Seq No: 7362736							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.3909 0.100 0.4000 97.7 80 120

Sample ID: 1702G55-023CMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/22/2017	Run No: 337100							
SampleType: MS	TestCode: TOTAL MERCURY SW7471B	BatchID: 238300	Analysis Date: 02/22/2017	Seq No: 7362738							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4884 0.114 0.4566 107 70 130

Sample ID: 1702G55-023CMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/22/2017	Run No: 337100							
SampleType: MSD	TestCode: TOTAL MERCURY SW7471B	BatchID: 238300	Analysis Date: 02/22/2017	Seq No: 7362739							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4883 0.115 0.4602 106 70 130 0.4884 0.014 30

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238340

Sample ID: MB-238340	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 337011							
SampleType: MBLK	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 238340	Analysis Date: 02/21/2017	Seq No: 7360684							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	BRL	33									
Aroclor 1221	BRL	33									
Aroclor 1232	BRL	33									
Aroclor 1242	BRL	33									
Aroclor 1248	BRL	33									
Aroclor 1254	BRL	33									
Aroclor 1260	BRL	33									
Surr: Decachlorobiphenyl	12.82	0	16.67		76.9	43.2	138				
Surr: Tetrachloro-m-xylene	16.68	0	16.67		100	46	128				

Sample ID: LCS-238340	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 337011							
SampleType: LCS	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 238340	Analysis Date: 02/21/2017	Seq No: 7360685							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	158.9	33	166.7		95.4	63.7	117				
Aroclor 1260	161.2	33	166.7		96.7	70.8	124				
Surr: Decachlorobiphenyl	13.89	0	16.67		83.3	43.2	138				
Surr: Tetrachloro-m-xylene	17.93	0	16.67		108	46	128				

Sample ID: 1702G28-019AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 337011							
SampleType: MS	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 238340	Analysis Date: 02/22/2017	Seq No: 7360895							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	148.9	35	177.5		83.9	52.8	125				
Aroclor 1260	157.5	35	177.5		88.8	56.4	129				
Surr: Decachlorobiphenyl	14.66	0	17.75		82.6	43.2	138				
Surr: Tetrachloro-m-xylene	15.15	0	17.75		85.4	46	128				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238340

Sample ID: 1702G28-019AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 337011							
SampleType: MSD	TestCode: POLYCHLORINATED BIPHENYLS SW8082A	BatchID: 238340	Analysis Date: 02/22/2017	Seq No: 7360896							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	152.1	35	177.5		85.7	52.8	125	148.9	2.10	23.8	
Aroclor 1260	161.2	35	177.5		90.8	56.4	129	157.5	2.32	19.2	
Surr: Decachlorobiphenyl	14.75	0	17.75		83.1	43.2	138	14.66	0	0	
Surr: Tetrachloro-m-xylene	15.04	0	17.75		84.7	46	128	15.15	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
 Project Name: LaGrange Site
 Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238373

Sample ID: MB-238373	Client ID:	Units: mg/Kg	Prep Date: 02/22/2017	Run No: 337171							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 238373	Analysis Date: 02/23/2017	Seq No: 7364594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: LCS-238373	Client ID:	Units: mg/Kg	Prep Date: 02/22/2017	Run No: 337171							
SampleType: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 238373	Analysis Date: 02/23/2017	Seq No: 7364595							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	46.36	5.00	50.00		92.7	80	120				
Barium	50.50	5.00	50.00		101	80	120				
Cadmium	48.77	2.50	50.00		97.5	80	120				
Chromium	50.61	2.50	50.00	0.03550	101	80	120				
Lead	48.86	5.00	50.00		97.7	80	120				
Selenium	41.48	5.00	50.00		83.0	80	120				
Silver	4.960	2.50	5.000		99.2	80	120				

Sample ID: 1702H64-001DMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/22/2017	Run No: 337171							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 238373	Analysis Date: 02/23/2017	Seq No: 7364597							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	49.59	5.63	56.27	6.492	76.6	75	125				
Barium	219.1	5.63	56.27	148.3	126	75	125				S
Cadmium	52.56	2.81	56.27	0.09660	93.2	75	125				
Chromium	75.72	2.81	56.27	34.11	74.0	75	125				S

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238373

Sample ID: 1702H64-001DMS	Client ID:	Units: mg/Kg-dry	Prep Date: 02/22/2017	Run No: 337171							
SampleType: MS	TestCode: METALS, TOTAL SW6010D	BatchID: 238373	Analysis Date: 02/23/2017	Seq No: 7364597							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	62.33	5.63	56.27	10.51	92.1	75	125				
Selenium	39.99	5.63	56.27		71.1	75	125				S
Silver	5.166	2.81	5.627	0.03033	91.3	75	125				

Sample ID: 1702H64-001DMSD	Client ID:	Units: mg/Kg-dry	Prep Date: 02/22/2017	Run No: 337171							
SampleType: MSD	TestCode: METALS, TOTAL SW6010D	BatchID: 238373	Analysis Date: 02/23/2017	Seq No: 7364598							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	53.11	5.60	55.96	6.492	83.3	75	125	49.59	6.85	20	
Barium	295.0	5.60	55.96	148.3	262	75	125	219.1	29.5	20	SR
Cadmium	54.67	2.80	55.96	0.09660	97.5	75	125	52.56	3.94	20	
Chromium	69.93	2.80	55.96	34.11	64.0	75	125	75.72	7.95	20	S
Lead	72.68	5.60	55.96	10.51	111	75	125	62.33	15.3	20	
Selenium	42.11	5.60	55.96		75.2	75	125	39.99	5.15	20	
Silver	5.345	2.80	5.596	0.03033	95.0	75	125	5.166	3.41	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238384

Sample ID: MB-238384	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336901							
SampleType: MBLK	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7359659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1000	0	1667		60.0	53.3	120				
Surr: 4-Terphenyl-d14	1216	0	1667		73.0	61.2	120				
Surr: Nitrobenzene-d5	937.7	0	1667		56.3	52.7	120				

Sample ID: LCS-238384	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336901							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7361044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1582	330	1667		94.9	69.2	120				
2-Methylnaphthalene	1595	330	1667		95.7	65.8	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238384

Sample ID: LCS-238384	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336901							
SampleType: LCS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7361044							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthene	1510	330	1667		90.6	69.6	120				
Acenaphthylene	1557	330	1667		93.4	66.4	120				
Anthracene	1554	330	1667		93.2	70	120				
Benz(a)anthracene	1647	330	1667		98.8	70	120				
Benzo(a)pyrene	1659	330	1667		99.5	70	120				
Benzo(b)fluoranthene	1640	330	1667		98.4	70	120				
Benzo(g,h,i)perylene	1373	330	1667		82.4	70	120				
Benzo(k)fluoranthene	1586	330	1667		95.2	70	120				
Chrysene	1533	330	1667		92.0	70	120				
Dibenz(a,h)anthracene	1542	330	1667		92.5	70	120				
Fluoranthene	1639	330	1667		98.4	70	120				
Fluorene	1623	330	1667		97.4	69.3	120				
Indeno(1,2,3-cd)pyrene	1467	330	1667		88.0	70	120				
Naphthalene	1460	330	1667		87.6	65.3	120				
Phenanthrene	1516	330	1667		91.0	70	120				
Pyrene	1623	330	1667		97.4	70	120				
Surr: 2-Fluorobiphenyl	1545	0	1667		92.7	53.3	120				
Surr: 4-Terphenyl-d14	1668	0	1667		100	61.2	120				
Surr: Nitrobenzene-d5	1383	0	1667		83.0	52.7	120				

Sample ID: 1702G55-020BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 336901							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7359702							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1780	400	2002		88.9	62.1	120				
2-Methylnaphthalene	1704	400	2002		85.1	58.1	120				
Acenaphthene	1706	400	2002		85.2	63.2	120				
Acenaphthylene	1728	400	2002		86.3	60.8	120				

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238384

Sample ID: 1702G55-020BMS	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 336901							
SampleType: MS	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7359702							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	1752	400	2002		87.5	66.8	120				
Benz(a)anthracene	1883	400	2002		94.0	68.5	120				
Benzo(a)pyrene	1807	400	2002		90.3	67	120				
Benzo(b)fluoranthene	1858	400	2002		92.8	68.3	120				
Benzo(g,h,i)perylene	1844	400	2002		92.1	57	122				
Benzo(k)fluoranthene	1821	400	2002		90.9	65.8	120				
Chrysene	1744	400	2002		87.1	68	120				
Dibenz(a,h)anthracene	1865	400	2002		93.1	59.6	118				
Fluoranthene	1848	400	2002		92.3	62.1	117				
Fluorene	1821	400	2002		90.9	62.1	120				
Indeno(1,2,3-cd)pyrene	1841	400	2002		91.9	58.4	119				
Naphthalene	1602	400	2002		80.0	57	120				
Phenanthrene	1737	400	2002		86.7	62.3	120				
Pyrene	1855	400	2002		92.6	64.3	120				
Surr: 2-Fluorobiphenyl	1679	0	2002		83.8	53.3	120				
Surr: 4-Terphenyl-d14	1845	0	2002		92.1	61.2	120				
Surr: Nitrobenzene-d5	1564	0	2002		78.1	52.7	120				

Sample ID: 1702G55-020BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 337059							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7361885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1712	400	2002		85.5	62.1	120	1780	3.90	17.2	
2-Methylnaphthalene	1667	400	2002		83.3	58.1	120	1704	2.19	18.2	
Acenaphthene	1668	400	2002		83.3	63.2	120	1706	2.23	20	
Acenaphthylene	1679	400	2002		83.9	60.8	120	1728	2.87	20	
Anthracene	1734	400	2002		86.6	66.8	120	1752	1.03	20	
Benz(a)anthracene	1771	400	2002		88.4	68.5	120	1883	6.12	19.1	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238384

Sample ID: 1702G55-020BMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 337059							
SampleType: MSD	TestCode: POLYAROMATIC HYDROCARBONS SW8270D	BatchID: 238384	Analysis Date: 02/22/2017	Seq No: 7361885							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzo(a)pyrene	1776	400	2002		88.7	67	120	1807	1.77	20	
Benzo(b)fluoranthene	1748	400	2002		87.3	68.3	120	1858	6.09	19.8	
Benzo(g,h,i)perylene	1790	400	2002		89.4	57	122	1844	2.98	19.6	
Benzo(k)fluoranthene	1787	400	2002		89.2	65.8	120	1821	1.91	17	
Chrysene	1685	400	2002		84.2	68	120	1744	3.43	19	
Dibenz(a,h)anthracene	1801	400	2002		89.9	59.6	118	1865	3.52	18	
Fluoranthene	1800	400	2002		89.9	62.1	117	1848	2.66	23.6	
Fluorene	1743	400	2002		87.0	62.1	120	1821	4.38	20	
Indeno(1,2,3-cd)pyrene	1784	400	2002		89.1	58.4	119	1841	3.12	18.6	
Naphthalene	1599	400	2002		79.9	57	120	1602	0.200	19	
Phenanthrene	1717	400	2002		85.7	62.3	120	1737	1.16	23.8	
Pyrene	1767	400	2002		88.2	64.3	120	1855	4.87	22.2	
Surr: 2-Fluorobiphenyl	1669	0	2002		83.4	53.3	120	1679	0	0	
Surr: 4-Terphenyl-d14	1837	0	2002		91.7	61.2	120	1845	0	0	
Surr: Nitrobenzene-d5	1513	0	2002		75.6	52.7	120	1564	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238410

Sample ID: MB-238410	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336911							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7357422							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238410

Sample ID: MB-238410	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336911							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7357422							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.60	0	50.00		87.2	66.1	129				
Surr: Dibromofluoromethane	49.81	0	50.00		99.6	83.6	123				
Surr: Toluene-d8	47.92	0	50.00		95.8	81.8	118				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238410

Sample ID: LCS-238410	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336911							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7357421							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.59	5.0	50.00		105	68	139				
Benzene	53.20	5.0	50.00		106	74	125				
Chlorobenzene	49.94	5.0	50.00		99.9	75.7	123				
Toluene	53.20	5.0	50.00		106	75.9	126				
Trichloroethene	51.77	5.0	50.00		104	70.6	129				
Surr: 4-Bromofluorobenzene	45.53	0	50.00		91.1	66.1	129				
Surr: Dibromofluoromethane	54.92	0	50.00		110	83.6	123				
Surr: Toluene-d8	45.55	0	50.00		91.1	81.8	118				

Sample ID: 1702F67-008AMS	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336963							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359916							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	522.1	50	500.0		104	64.3	149				
Benzene	487.5	50	500.0		97.5	71.6	132				
Chlorobenzene	479.2	50	500.0		95.8	73.1	126				
Toluene	508.0	50	500.0		102	72.5	135				
Trichloroethene	466.1	50	500.0		93.2	70.2	132				
Surr: 4-Bromofluorobenzene	430.5	0	500.0		86.1	66.1	129				
Surr: Dibromofluoromethane	504.6	0	500.0		101	83.6	123				
Surr: Toluene-d8	459.1	0	500.0		91.8	81.8	118				

Sample ID: 1702F67-008AMSD	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336963							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359917							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	524.7	50	500.0		105	64.3	149	522.1	0.497	30.8	
Benzene	485.3	50	500.0		97.1	71.6	132	487.5	0.452	20.7	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238410

Sample ID: 1702F67-008AMSD	Client ID:	Units: ug/L	Prep Date: 02/21/2017	Run No: 336963
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238410	Analysis Date: 02/21/2017	Seq No: 7359917

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	464.4	50	500.0		92.9	73.1	126	479.2	3.14	26.6	
Toluene	500.3	50	500.0		100	72.5	135	508.0	1.53	23.2	
Trichloroethene	465.2	50	500.0		93.0	70.2	132	466.1	0.193	27.7	
Surr: 4-Bromofluorobenzene	439.7	0	500.0		87.9	66.1	129	430.5	0	0	
Surr: Dibromofluoromethane	513.1	0	500.0		103	83.6	123	504.6	0	0	
Surr: Toluene-d8	476.6	0	500.0		95.3	81.8	118	459.1	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238421

Sample ID: MB-238421	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336970							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359002							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238421

Sample ID: MB-238421	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336970							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359002							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.48	0	50.00		89.0	63	125				
Surr: Dibromofluoromethane	45.28	0	50.00		90.6	69.9	123				
Surr: Toluene-d8	50.37	0	50.00		101	70	122				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238421

Sample ID: LCS-238421	Client ID:	Units: ug/Kg	Prep Date: 02/21/2017	Run No: 336970							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359001							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.03	5.0	50.00		104	62	142				
Benzene	59.27	5.0	50.00		119	70.2	131				
Chlorobenzene	53.19	5.0	50.00		106	72.9	129				
Toluene	57.97	5.0	50.00		116	70.6	131				
Trichloroethene	58.17	5.0	50.00		116	70.1	136				
Surr: 4-Bromofluorobenzene	48.51	0	50.00		97.0	63	125				
Surr: Dibromofluoromethane	46.95	0	50.00		93.9	69.9	123				
Surr: Toluene-d8	48.28	0	50.00		96.6	70	122				

Sample ID: 1702F15-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 336970							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359003							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.91	6.1	61.24		103	55	143				
Benzene	70.10	6.1	61.24		114	68.5	128				
Chlorobenzene	60.95	6.1	61.24		99.5	67.7	126				
Toluene	68.42	6.1	61.24		112	66.9	128				
Trichloroethene	67.38	6.1	61.24		110	60.7	133				
Surr: 4-Bromofluorobenzene	59.54	0	61.24		97.2	63	125				
Surr: Dibromofluoromethane	59.74	0	61.24		97.5	69.9	123				
Surr: Toluene-d8	59.68	0	61.24		97.4	70	122				

Sample ID: 1702F15-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 336970							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359004							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.45	6.1	61.24		95.4	55	143	62.91	7.35	19.3	
Benzene	68.79	6.1	61.24		112	68.5	128	70.10	1.89	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Rindt-McDuff Associates, Inc.
Project Name: LaGrange Site
Workorder: 1702H36

ANALYTICAL QC SUMMARY REPORT

BatchID: 238421

Sample ID: 1702F15-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 02/21/2017	Run No: 336970							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 238421	Analysis Date: 02/21/2017	Seq No: 7359004							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	60.66	6.1	61.24		99.0	67.7	126	60.95	0.483	20	
Toluene	67.28	6.1	61.24		110	66.9	128	68.42	1.68	20	
Trichloroethene	67.07	6.1	61.24		110	60.7	133	67.38	0.455	20	
Surr: 4-Bromofluorobenzene	59.53	0	61.24		97.2	63	125	59.54	0	0	
Surr: Dibromofluoromethane	59.36	0	61.24		96.9	69.9	123	59.74	0	0	
Surr: Toluene-d8	60.10	0	61.24		98.1	70	122	59.68	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		