

DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES William R. Snodgrass - Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243-1102 (615) 532-0625

NOTICE OF INTENT (NOI) for Land Application of Non-Exceptional Quality Biosolids

Gene	erator le:	Current NPDES No:	Existing Tracking No:				
Own	er or Operator: (the person or legal entity which controls the site's operati	on)					
	Name of Official Contact Person: (individual responsible for a site)	Title or Position:					
1	Mailing Address:	City:	State: Zip:				
	Phone: ()	E-mail:					
	Name of Local Contact Person: (if appropriate, write "same as #1")	Title or Position:					
2	Site Address: (this may or may not be the same as street address)	Site City:	State: Zip: TN				
	Phone:	E-mail:					
	Write in the box (to the right) or circle the number (above) to indicate	where to send correspondence:				

All non-exceptional biosolids land application sites that have been approved by the division prior to the effective date of this permit will be covered under this permit upon receipt of the signed certification statement, completed NOI and a copy of site approval letter(s).

abbi	ovar icucits).									
Ă.	OPERATIO	NAL INFORMATION:								
	Estimated and	nual amount of biosolids ge	enerated (dry weight basis)	(tons)						
	Estimated and	nual amount of biosolids to	be land applied (dry weight basis	s)(tons)						
B.	BIOSOLIDS	5 TREATMENT PROCE	SS: Please provide a descripti	on of the biosolids treatment process used prior to						
	biosolids bein	ng land applied (use a separ	ate sheet if necessary):	1 1						
			•							
С	CHEMICAI	ANALYSIS Indicate w	nich contaminant standard(s) the	biosolids meet:						
···	Table 1 Ceili	ing Contaminant Concent	rations. Tab	ble 3 Contaminant Concentrations:						
	• Submit analytical results to demonstrate aligibility for and compliance with the quality criteria specified in the									
	Gen	eral Permit	emonstrate englotinty for and ex	simpliance with the quanty effering specified in the						
	• Sub	mit PCB and TCI P analyti	cal results that are less five years	old						
	- Sub	line i CD and i CEI analyti	car results that are less rive years	014.						
D	PATHOGEN	N REDUCTION LEVEL	ACHIEVED. Indicate alternativ	ve used to achieve the pathogen reduction For Class						
υ.	A Alternativ	res 5 and 6 [°] for Class B A	Iternatives 2 and 3 list the spec	if Process to Further Reduce Pathogens (PFRP) or						
	Process to Si	gnificantly Reduce Pathoge	ens (PSRP).							
	Class A:	\square Alternative 1	Alternative 2	Alternative 3						
		Alternative 4	Alternative 5	Alternative 6						
			(List PFRP)	(List Eq. PFRP)						
	Class B:	Alternative 1	Alternative 2	Alternative 3						
			(List PSRP)	(List Eq. PSRP)						
	Provide a de	tailed description of the p	athogen treatment process. Atta	ach laboratory analytical and/or process monitoring						
	results, as app	propriate, that demonstrate	pathogen reduction is being achie	eved:						

E.	VECTOR ATTR	RACTION RED	UCTION LEVEL ACHIEVED:	Indicate the option used	to achieve the v	ector attraction			
	reduction.		ion 2 🗌 Option 3	Option 4					
	Option 5		ion 6 Option 7	Option 8					
	If one of the ve	ector attraction r	eduction Options 1 - 5 is select	ed, do the biosolids m	neet Class A pa	thogen reduction			
	requirements prio	or to or at the sam	e time as meeting the vector attrac	ction reduction requirem	ents?				
	Provide a detailed	d description of the	he vector attraction reduction treat	ment process. Attach la	boratory analytic	al and/or process			
	monitoring results, as appropriate, that demonstrate vector attraction reduction is being achieved:								
The	The settled solids transferred from the sequential batch reactor are aerobically digested onsite.								
	TO 0.1								
F.	If one of the vector will be performed	or attraction redu	ction Options 1 - 8 above was not art of the land application process	performed, indicate how	the vector attraction	ction reduction			
	Option 9 (Sul	bsurface Injection	\mathbf{D} on \mathbf{D}	ption 10 (Incorporation	n)				
		·							
If Op	tion 4 fails, the ma	aterial will be lan	d applied as a liquid and will be ir	corporated within 6 hou	urs in accordanc	e with Option 10.			
G.	SAMPLING PL	AN: Include a c	letailed copy of the biosolids sam	pling plan as specified i	in the instruction	s. The sampling			
	plan must address	s sampling proto	cols for contaminants, pathogen r	reduction, and vector att	raction reduction	n quality criteria.			
Due to	the small size of the plan	it and resultant small a	nount of material generated, the biosolids will	be sampled on an event-timed b	asis and immediately p	prior to land application.			
U	I AND ADDI IC	ATION ADEA	s). Include a list of land applie	ation area(s) that will h	a used for disp	and of biosolida			
11.	Attach a detailed	map showing ap	propriate buffers in accordance with	th section 3.2.1 (add add	itional pages if n	ecessary)			
	Area Number	Area (acres)	Application Rate (tons/acre) pe	er section 3.2.2	Latitude (decimal)	Longitude (decimal)			
	TN-FA-1	~108	Bermuda Hay - application rate would be ~8	7 DryTon/Acre at ~3.5% solids	35.136145	-89.553261			
				and a state of the second s					
		}							
T	CEDTIEICATIC	N. Lootify w	day populate of laws, that contamin	cont concentrations in t	he biegolide not	hagen reduction			
1.	vector attraction r	reduction, and oth	per quality criteria of the biosolids	stated in the regulations	have been met of	or, if appropriate.			
	will be met prior	to land application	on of biosolids. I further certify th	at other information in t	his document an	d all attachments			
	were prepared un	der my direction	or supervision in accordance w	ith a system designed t	o assure that qu	alified personnel			
	properly gathered	and evaluated	the information submitted. Base	d on my own knowled	ge as well as the	ie inquiry of the			
	the best of my kn	nowledge and bel	ief, is true, accurate and complete	e. I further acknowledge	e that the facilit	v or generator of			
	biosolids describe	ed above is eligib	le for coverage under TDEC's Ge	neral Permit for the Lan	d Application of	Biosolids. I am			
	aware that there a	re significant per	nalties for submitting false inform	ation, including possibil	ity of fines and i	mprisonment for			
	penalty of periury	ns. As specified	in Tennessee Code Annotated S	$\frac{1}{2} = \frac{1}{2} = \frac{1}$, this declaration	n is made under			
	lustin	Hall		Manager					
	Name: 003th		1/1 01	Title:					
	Signature:	atin	Bell						
	Telephone (14.9)	252	3916	Date Signed. 11	22 ,19				
NOT	Leichight (NOI farme TDI		Date orgineu/_	iana ta datamain				

<u>NOTE</u>: In evaluating NOI forms, TDEC may request additional information to complete its review to determine the eligibility for coverage under TDEC's General Permit.

Submit the original completed and signed form to <u>Water.Permits@tn.gov</u> or: Biosolids NOI Processing - Division of Water Resources William R. Snodgrass - Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor Nashville, TN 37243-1102

RDA 2366



11/12/2019

Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS, 38654

Ref: Analytical Testing Revised Lab Report Number: 19-274-9080 (Original Report 19-274-0080) Client Project Description: Chickasaw Trails Sludge Testing

Dear Mr. Robert Richmond: Waypoint Analytical, LLC. received sample(s) on 10/1/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule August 2017) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #407	750 Lo	ouisiana	#04015	VA NELAP	#460181	Texas	#T104704180	Arkansas	#88-0650
Mississippi	С	alifornia	#2904	NC	#415	Oklahoma	#9311	SC	#84002
Kentucky #900	047 T	ennessee	#TN02027	EPA	#TN00012	Kentucky UST	#80215	PA DEP	#68-03195





Sample Summary Table

Report Number:

Client Project Description:

Chickasaw Trails Sludge Testing

19-274-9080

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
99406	Digester Sludge	Solids	10/01/2019 08:55	10/01/2019
99407	Digester Sludge - Grab 1	Solids	10/01/2019 08:55	10/01/2019
99408	Digester Sludge - Grab 2	Solids	10/01/2019 08:55	10/01/2019
99409	Digester Sludge - Grab 3	Solids	10/01/2019 08:55	10/01/2019
99410	Digester Sludge - Grab 4	Solids	10/01/2019 08:55	10/01/2019
99411	Digester Sludge - Grab 5	Solids	10/01/2019 08:55	10/01/2019
99412	Digester Sludge - Grab 6	Solids	10/01/2019 08:55	10/01/2019
99413	Digester Sludge - Grab 7	Solids	10/01/2019 08:55	10/01/2019



Client: Metro Desoto WWTP Project: Chickasaw Trails Lab Report Number: 19-274-9080 Date: 11/12/2019

CASE NARRATIVE

This report is being revised due to the addition of Selenium and Molybdenum to the project sample.

Specific Oxygen Uptake Rate in Biosolids Method EPA-1683

QC Batch No: L457424 Due to this high solids content of this sample, it had to be ran at a 5 times dilution.

Solids Total Mercury Analysis - CVAA Method 7471A

Analyte: Mercury

QC Batch No: L457839

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS 38654

Project Chickasaw Trails Information : Sludge Testing

> Original Report Date: 10/08/2019 Revised Report Date: 11/12/2019 Received : 10/01/2019

> > Matrix: Solids

Sampled: 10/1/2019 8:55

Report Number : 19-274-9080

REPORT OF ANALYSIS

Lab No : 99406

Sample ID : Digester Sludge

Test	Results	Units	MQL	DF	Date / Time	Ву	Analytical
					Analyzed		Method
Moisture	93.6	%		1	10/07/19 11:44	VBW	SW-DRYWT
Ammonia Nitrogen	7640	mg/Kg - dry	391	1	10/07/19 14:00	JPJ	4500NH3C-2011
Nitrate (NO3-N)	34.4	mg/Kg - dry	15.6	1	10/04/19 16:57	CCR	9056A
Nitrite (NO2-N)	21.1	mg/Kg - dry	15.6	1	10/04/19 16:57	CCR	9056A
Nitrate+Nitrite-N	55.5	mg/Kg - dry	15.6	1	10/04/19 16:57	JRF	9056A
рН	7.5	s.u.		1	10/08/19 07:04	JSL	9045D
Total Solids	6.51	%	0.010	1	10/01/19 15:50	ADM	2540G-2011
Total Kjeldahl Nitrogen	16700	mg/Kg - dry	781	1	10/07/19 16:59	CLP	4500NORGD-2011
Total Nitrogen	16700	mg/Kg - dry	15.6	1	10/04/19 16:57	ELK	CALCULATION \sim
Arsenic	8.63	mg/Kg - dry	7.81	1	10/02/19 19:25	BKN	6010D
Cadmium	<1.56	mg/Kg - dry	1.56	1	10/02/19 19:25	BKN	6010D
Chromium	43.8	mg/Kg - dry	3.91	1	10/02/19 19:25	BKN	6010D
Copper	477	mg/Kg - dry	3.91	1	10/02/19 19:25	BKN	6010D
Lead	20.9	mg/Kg - dry	4.69	1	10/02/19 19:25	BKN	6010D
Mercury	<0.247	mg/Kg - dry	0.247	1	10/08/19 13:14	TJS	7471A
Molybdenum	<3.91	mg/Kg - dry	3.91	1	10/02/19 19:25	BKN	6010D
Nickel	22.8	mg/Kg - dry	3.91	1	10/02/19 19:25	BKN	6010D
Selenium	<7.81	mg/Kg - dry	7.81	1	10/02/19 19:25	BKN	6010D
Silver	<3.91	mg/Kg - dry	3.91	1	10/02/19 19:25	BKN	6010D
Zinc	498	mg/Kg - dry	19.5	1	10/02/19 19:25	BKN	6010D
Specific Oxygen Uptake Rate	0.74	(mg/g)/hr		1	10/02/19 12:20	ТКМ	EPA-1683

Qualifiers/ Definitions DF



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch , MS 38654

Project Chickasaw Trails Information : Sludge Testing

> Original Report Date : 10/08/2019 Revised Report Date: 11/12/2019 Received : 10/01/2019

Report Number : 19-274-9080

REPORT OF ANALYSIS

Lab No : 99407	No: 99407					: Solid	s	
Sample ID : Digester Sludge - Grab 1 Sampled: 10/1/2019 8:								
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture	88.4	%		1	10/07/19 11:44	VBW	SW-DRYWT	
Fecal Coliform	>138000	MPN/g - dry	15.5	1	10/02/19 08:25	HSK	9221E-2011	

Lab No : 99408		Matrix: Solids						
Sample ID : Digester Sludge ·	- Grab 2				Sampled: 10/1/2019 8:55			
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture	91.1	%		1	10/07/19 11:44	VBW	SW-DRYWT	
Fecal Coliform	>180000	MPN/g - dry	20.2	1	10/02/19 08:25	HSK	9221E-2011	

Lab No : 99409 Sample ID : Digester Sludge - Grab 3		Matrix: Solids Sampled: 10/1/2019 8:55						
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	

				/	
Moisture	90.8	%		1 10/07/19 11:44 VBW	SW-DRYWT
Fecal Coliform	>174000	MPN/g - dry	19.5	1 10/02/19 08:25 HSK	9221E-2011

Lab No : 99 Sample ID : Dig	410 Jester Slug	lge - Grab 4				Matrix: Solids Sampled: 10/1/2019 8:				
Test		Results	Units	MQL	D	F Date / Time Analyzed	Ву	Analytical Method		
Moisture		92.4	%			1 10/07/19 11:44	VBW	SW-DRYWT		
Fecal Coliform		211000	MPN/g - dry	23.6		1 10/02/19 08:25	HSK	9221E-2011		
Qualifiers/ Definitions	DF MQL	Dilution Factor Method Quantitation Limit			L	Limit Exceeded				



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS 38654

Project Chickasaw Trails Information : Sludge Testing

> Original Report Date: 10/08/2019 Revised Report Date: 11/12/2019 Received : 10/01/2019

> > Matrix: Solids

Sampled: 10/1/2019 8:55

Report Number : 19-274-9080

REPORT OF ANALYSIS

Lab No : 99411 Sample ID : Digester Sludge - Grab 5

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture	90.8	%		1	10/07/19 11:44	VBW	SW-DRYWT	
Fecal Coliform	>174000	MPN/g - dry	19.5	1	10/02/19 08:25	HSK	9221E-2011	

Lab No :	99412
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Sample ID : Digester Sludge - Grab 6

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	90.8	%		1	10/07/19 11:44	VBW	SW-DRYWT
Fecal Coliform	>174000	MPN/g - dry	19.5	1	10/02/19 08:25	HSK	9221E-2011

Lab No : 99413

Sample ID : Digester Sludge - Grab 7

DF

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture	90.7	%		1	10/07/19 11:44	VBW	SW-DRYWT	
Fecal Coliform	172000	MPN/g - dry	19.3	1	10/02/19 08:25	HSK	9221E-2011	

Matrix: Solids

Matrix: Solids

Sampled: 10/1/2019 8:55

Sampled: 10/1/2019 8:55



Cooler Receipt Form

Customer	Number:	02809

Customer Name: Metro Desoto WWTP Peport Number: 19-274-0080

кероп питр	er: I	9-21	4-000

		Shipping I	Method	l		
O Fed Ex	US Postal	Lab		Other :		
				Thermometer ID:	Т70	
Shipping conta	ainer/cooler uncompromis	sed?	Yes	🔿 No		
Number of coo	olers received		1			
Custody seals	intact on shipping contain	ner/cooler?) Yes	🔿 No	Not R	equired
Custody seals	intact on sample bottles?	· () Yes	🔘 No	Not R	equired
Chain of Custo	ody (COC) present?		Yes	🔿 No		
COC agrees v	vith sample label(s)?		Yes	🔿 No		
COC properly	completed		Yes	🔘 No		
Samples in pr	oper containers?		Yes	🔘 No		
Sample contai	iners intact?		Yes	🔘 No		
Sufficient sam	ple volume for indicated t	est(s)?	Yes	🔘 No		
All samples re	ceived within holding time	9?	Yes	🔿 No		
Cooler temper	rature in compliance?		Yes	🔿 No		
Cooler/Sample Samples were process had b	es arrived at the laborator considered acceptable a legun.	y on ice. s cooling	Yes	○ No		
Water - Samp	le containers properly pre	served) Yes	🔘 No	N/A	
Water - VOA v	vials free of headspace	() Yes	🔘 No	N/A	
Trip Blanks re	ceived with VOAs	() Yes	🔘 No	N/A	
Soil VOA meth	nod 5035 – compliance cr	iteria met) Yes	🔿 No	N/A	
High conce	entration container (48 hr)			w concentration EnC	Core samplers (48 hr)
High conce	entration pre-weighed (me	thanol -14 d)		w conc pre-weighed	vials (Sod Bis	-14 d)
Special preca	utions or instructions inclu	ided?) Yes	No		
Comments:						

Signature: Sovanchampa Yos

Date & Time: 10/01/2019 13:12:06



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Randy Thomas
9/26/2019
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	19-274-0080
	02809
Metro Desoto WWTP	10-01-2019
Chickasaw Trails	13.11.47

Company	Name	Company Number			Client Project Manager/Contact				Purchase Order Number			
Metro Des	etro Desoto WWTP 02809				Metro I	Desoto \	WWTP		2061			
Site Name Pro Chickasaw Trails Digester Sludge			Project Number	RUSH – Additional charges apply Special Detection Limits(s)				Method of Shipment Fed Ex UPS USPS Courier Client Drop Off Other				
LIMS Proj	ect ID	t ID Project Manager Phone # Project Manager Email		er Email	ail		ility ID #					
Metro Desoto - Sludge Testing (6			(662) 893-0773	662) 893-0773			rs Cyahoo.co	m				
Date	Time		Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Prese	ervation	Analyses		
10/1/19	0855	Digester	Sludge	Solids	G	2	Glass - 4oz	NONE		NONE		As/Cd/Cr/Cu/Pb/Hg/Ni/Ag/Z n/NH3/Tot N/TS/SOUR/pH
10/1/19	0855	Digester	Sludge - Grab 1	Solids	G	1	Glass - 4oz					NONE
10/1/19	0855	Digester S	Sludge - Grab 2	Solids	G	1	Glass - 4oz	NONE		Fecal/Moisture		
10/1/19	0855	Digester S	iludge - Grab 3	Solids	G	1	Glass - 4oz	NONE		NONE Fe		Fecal/Moisture
10/1/19	0855	Digester S	iludge - Grab 4	Solids	G	1	Glass - 4oz	NONE		Fecal/Moisture		
10/1/19	0855	Digester S	iludge - Grab 5	Solids	G	1	Glass - 4oz	NONE		Fecal/Moisture		
10/1/19	0855	Digester S	ludge - Grab 6	Solids	G	1	Glass - 4oz	NONE		Fecal/Moisture		
10/1/19	0855	Digester S	ludge - Grab 7	Solids	G	1	Glass - 4oz	NO	NE	Fecal/Moisture		

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments				
Ice	Custody	Lab Comments	RWR					
ØN	Y		Relinquished by: (SIGNATURE)	Date Time 10/1/19 08:25	Received by: (SIGNATURE)	Date Time 10119 825		
Blank/Co	oler Temp		Relinquished by: (SIGNA/TURE)	Date Time	Received by: (SIGNATURE)	Date Time		
1-1	1.0 c	P. T.	Relinquished by (SIGNATURE)	Date Time 10119 1210	Received by: (SIGNATURE)	Date Time 10119 1210		



11/11/2019

Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS, 38654

Ref: Analytical Testing Lab Report Number: 19-311-0151 Client Project Description: Chickasaw Trails Sludge Testing

Dear Mr. Robert Richmond: Waypoint Analytical, LLC. received sample(s) on 11/7/2019 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule August 2017) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40	0750 I	Louisiana	#04015	VA NELAP	#460181	Texas	#T104704180	Arkansas	#88-0650
Mississippi	(California	#2904	NC	#415	Oklahoma	#9311	SC	#84002
Kentucky #90	0047 -	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#80215	PA DEP	#68-03195





Sample Summary Table

Report Number:

Client Project Description: Chickasaw Trails

Sludge Testing

19-311-0151

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
93595	Digester Sludge - Grab 1	Solids	11/07/2019 10:00	11/07/2019
93596	Digester Sludge - Grab 2	Solids	11/07/2019 10:00	11/07/2019
93597	Digester Sludge - Grab 3	Solids	11/07/2019 10:00	11/07/2019
93598	Digester Sludge - Grab 4	Solids	11/07/2019 10:00	11/07/2019
93599	Digester Sludge - Grab 5	Solids	11/07/2019 10:00	11/07/2019
93600	Digester Sludge - Grab 6	Solids	11/07/2019 10:01	11/07/2019
93601	Digester Sludge - Grab 7	Solids	11/07/2019 10:01	11/07/2019



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch , MS 38654

Project Chickasaw Trails Information : Sludge Testing

Report Number : 19-311-0151

REPORT OF ANALYSIS

Report Date : 11/11/2019 Received : 11/07/2019

Matrix: Solids

Sampled: 11/7/2019 10:00

Lab No : 93595					Matrix: Solids				
Sample ID : Digester Sludge - Grab 1					Sampled:	11/7	/2019 10:00		
Test		Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture		87.8	%		1	11/08/19 10:46	VBW	SW-DRYWT	_
Fecal Coliforr	n	1150000	MPN/g - dry	14800	1	11/07/19 16:30	SBA	9221E-2011	

Lab No : 93596					Matrix	: Solid	S
Sample ID : Digester Sludge - Gra				Sampled	: 11/7	/2019 10:00	
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	87.7	%		1	11/08/19 10:46	VBW	SW-DRYWT
Fecal Coliform	398000	MPN/g - dry	14600	1	11/07/19 16:30	SBA	9221E-2011

Lab No : **93597**

Sample ID : Digester Sludge - Grab 3

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method	
Moisture	87.8	%		1	11/08/19 10:46	VBW	SW-DRYWT	
Fecal Coliform	648000	MPN/g - dry	14800	1	11/07/19 16:30	SBA	9221E-2011	

Lab No : 93598 Matrix: Solids Sample ID : Digester Sludge - Grab 4 Sampled: 11/7/2019 10:00 MQL DF Test Results Units Date / Time By Analytical Analyzed Method SW-DRYWT Moisture % 88.0 1 11/08/19 10:46 VBW Fecal Coliform 1080000 MPN/g - dry 9221E-2011 15000 1 11/07/19 16:30 SBA **Qualifiers/** Limit Exceeded

 Qualifiers/
 DF
 Dilution Factor
 L

 Definitions
 MQL
 Method Quantitation Limit
 L



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS 38654

Project Chickasaw Trails Information : Sludge Testing

Report Number : 19-311-0151

REPORT OF ANALYSIS

Report Date : 11/11/2019 Received : 11/07/2019

Matrix: Solids

ab No : 93599					Matrix: Solids				
Sample ID : Digester Sludge - G	rab 5				Sampled	: 11/7	/2019 10:00		
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method		
Moisture	87.8	%		1	11/08/19 10:46	VBW	SW-DRYWT		
Fecal Coliform	648000	MPN/g - dry	14800	1	11/07/19 16:30	SBA	9221E-2011		

Lab No : 93600

Sample ID : Digester Sludge - Grab 6

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	87.7	%		1	11/08/19 10:46	VBW	SW-DRYWT
Fecal Coliform	1060000	MPN/g - dry	14600	1	11/07/19 16:30	SBA	9221E-2011

Lab No : 93601

Sample ID : Digester Sludge - Grab 7

DF

Matrix: Solids Sampled: 11/7/2019 10:01

Sampled: 11/7/2019 10:01

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	87.8	%		1	11/08/19 10:46	VBW	SW-DRYWT
Fecal Coliform	1800000	MPN/g - dry	14800	1	11/07/19 16:30	SBA	9221E-2011

Qualifiers/ Definitions

Geometric Mean Calculation

Date: 11/11/2019

Analyst: B. Andres

Report Number:19-311-0151

		_							
			Measured V	alues			Conversion to Dry Weight		
		-	MPN	Highest				Dry Weight	
			Index	ml	%	%	ó D	MPN/g	
#		Sample Number	Value	used	moisture	sol	ids		
1	L	93595	140,000.0	1E-06	87.8	0.	12	1,147,541	
2	L	93596	49,000.0	1E-06	87.7	0.	12	398,374	
3	L	93597	79,000.0	1E-06	87.8	0.	12	647,541	
4	L	93598	130,000.0	1E-06	88.0	0.	12	1,083,333	
5	L	93599	79,000.0	1E-06	87.8	0.	12	647,541	
6	L	93600	130,000.0	1E-06	87.7	0.	12	1,056,911	
7	L	93601	220,000.0	1E-06	87.8	0.	12	1,803,279	

Geometric Mean (using above values)

875,979.3



Cooler Receipt Form

Customer Number	: 02809
Customer Name:	Metro Desoto WWTP

Report Number: 19-311-0151

	Shipping Method								
◯ Fed Ex	◯ US Postal	🕒 Lab		Other :					
	○ Client		rier	Thermometer ID:	#56				
Shipping conta	ainer/cooler uncompromise	ed?	Yes	🔘 No					
Number of co	olers received		1			_			
Custody seals	intact on shipping contain	er/cooler?	⊖ Yes	🔵 No	Not Requir	red			
Custody seals intact on sample bottles?			⊖ Yes	🔘 No	Not Requir	red			
Chain of Cust	ody (COC) present?		Yes	🔵 No					
COC agrees v	with sample label(s)?		Yes	🔘 No					
COC properly	completed		Yes	🔵 No					
Samples in pr	oper containers?		Yes	🔵 No					
Sample conta	iners intact?		Yes	🔘 No					
Sufficient sample volume for indicated test(s)?			Yes	🔵 No					
All samples received within holding time?			Yes	🔵 No					
Cooler temperature in compliance?			Yes	🔵 No					
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.			Yes	◯ No					
Water - Samp	le containers properly pres	erved	🔵 Yes	🔵 No	N/A				
Water - VOA	vials free of headspace		⊖ Yes	🔘 No	N/A				
Trip Blanks re	ceived with VOAs		\bigcirc Yes	🔘 No	N/A				
Soil VOA meth	nod 5035 – compliance crit	eria met	◯ Yes	◯ No	N/A				
High conce	entration container (48 hr)			w concentration EnC	ore samplers (48 hr	r)			
High conce	entration pre-weighed (met	nanol -14	d) 🗌 Lov	w conc pre-weighed	vials (Sod Bis -14 d	l)			
Special preca	utions or instructions inclue	ed?	⊖ Yes	No					
Comments:									

Signature: Kristina A. McAdams

Date & Time: 11/07/2019 15:37:36



CHAIN-OF-CUSTODY

Kit ID:	0000127168	
Initiated By:	Randy Thomas	
Initiated Date:	10/31/2019	
Project Comme	ent	

19-311-015 ⁻ 02809 11-07-2019	1
15:37:	19

Metro Desoto WWT Chickasaw Trails

Company Name		2.14	Company Number		Client F	Project I	Manager/Contact	Purchase	Order Number
Metro Deso	to WWTP		02809		Metro D	esoto W	20	068	
Site Name Project Chickasaw Trails Digester Sludge Project LIMS Project ID Project Metro Desoto - Sludge Testing (662) 8			Project Number	Project Number			tional charges apply ction Limits(s) reded	Method o Fed Ex Courier Other	of Shipment
			Project Manager Pho (662) 893-0773	Project	Manag	er Email Cyahoo.com	Site/Facili	Site/Facility ID #	
Date	Time		Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Preservation	Analyses
11/7/19	1000	Digester	Sludge - Grab 1	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/1/19	1000	Digester	Sludge - Grab 2	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/7/19	1000	Digester	Sludge - Grab 3	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/7/19	1000	Digester	Sludge - Grab 4	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/7/19	1000	Digester	Sludge - Grab 5	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/7/19	1001	Digester	Sludge - Grab 6	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture
11/2/19	1001	Digester	Sludge - Grab 7	Solids	G	1	Glass - 4oz	NONE	Fecal/Moisture

10-	For Laboratory Use Only		Sampled by (Name - Print)	Client Remarks/Comments						
Ice	Custody	Lab Comments	RWR	A	and the second second	1. 1. 1.				
AN.	Seals		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time				
0			Relinquished by (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time				
Blank/Co	coler Temp		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time				
1:2	H.		tilsinger 11	1/19 1500	tilsing "	1/1/19 150				
	30		1/1	'						



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS 38654

Report Number : 17-136-0254

Analytical Method: 6010C

Chickasaw Trails WWTP Project Information :

Report Date : 05/24/2017 Received : 5/16/2017

Rendell H. Thomas

Randy Thomas Project Manager

Lab No : 97353 Sample ID : Sludge					Matrix Sampled	: Sludg : 5/15,	je / 2017 13:35	
Tost	Results	Units	MQL	DF	Date / Time	Ву	Analytical	

REPORT OF ANALYSIS

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
TCLP Herbicide Extraction	Combined			1	05/18/17 17:50	SAJ	SW-1311
TCLP Metals Extraction	Combined			1	05/18/17 17:50	SAJ	SW-1311
TCLP Pesticide Extraction	Combined			1	05/18/17 17:50	SAJ	SW-1311
TCLP SVOC Extraction	Combined			1	05/18/17 17:50	SAJ	SW-1311
TCLP VOC ZHE Extraction	Combined			1	05/18/17 18:03	SAJ	SW-1311 (ZHE)

Prep Batch(es): L333788 05/19/17 10:40

Prep Method:	3005A							
Test		Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
TCI P Arsenic		< 0.025	mg/L	0.025	1	05/19/17 20:03	KKM	L333998
TCLP Barium		0.050	mg/L	0.025	1	05/19/17 20:03	KKM	L333998
TCLP Cadmium		<0.005	mg/L	0.005	1	05/19/17 20:03	KKM	L333998
TCLP Chromium		<0.010	mg/L	0.010	1	05/22/17 17:48	KKM	L334088
TCLP Lead		<0.010	mg/L	0.010	1	05/22/17 17:48	ККМ	L334088
TCLP Selenium		<0.050	mg/L	0.050	1	05/19/17 20:03	KKM	L333998
TCLP Silver		<0.005	mg/L	0.005	1	05/19/17 20:03	KKM	L333998

Qualifiers/ Definitions

DF **Dilution Factor**

Method Quantitation Limit MQL



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch , MS 38654

Project Chickasaw Trails WWTP Information :

REPORT OF ANALYSIS

Report Date : 05/24/2017 Received : 5/16/2017

Rendell H. Thomas

Randy Thomas Project Manager

Sampled: 5/15/2017 13:35

Matrix: Sludge

Lab No : 97353

Report Number : 17-136-0254

Sample ID : Sludge

05/19/17 11:25 L333803 7470A Prep Batch(es): Analytical Method: 7470A **Prep Method:** DF Date / Time By Analytical MQL Units Results Test Batch Analyzed L333835 0.0200 1 05/19/17 16:52 ABC mg/L < 0.0200 **TCLP Mercury** 05/22/17 18:00 L334123 Prep Batch(es): Analytical Method: 8081A **Prep Method:** 3510C Date / Time By Analytical MQL DF Units Results Test Batch Analyzed L334285 10 05/23/17 01:47 VIC 0.001600 TCLP Endrin < 0.001600 mg/L 05/23/17 01:47 VIC L334285 0.001600 10 mg/L TCLP gamma-BHC < 0.001600 L334285 05/23/17 01:47 VIC mg/L 0.001600 10 < 0.001600 TCLP Methoxychlor L334285 05/23/17 01:47 VIC mg/L 0.01200 10 < 0.01200 TCLP Toxaphene L334285 0.008000 10 05/23/17 01:47 VIC mg/L TCLP Chlordane < 0.008000 05/23/17 01:47 VIC L334285 10 mg/L 0.001600 < 0.001600 TCLP Heptachlor Epoxide L334285 mg/L 0.001600 10 05/23/17 01:47 VIC < 0.001600 TCLP Heptachlor L334285 Limits: 36-116% 10 05/23/17 01:47 VIC 82.04 Surrogate: Decachlorobiphenyl L334285 10 05/23/17 01:47 VIC Limits: 25-123% 41.21 Surrogate: Tetrachloro-m-xylene Prep Batch(es): L333930 05/22/17 08:00 Analytical Method: 8151A Pren Method: 8151A

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
TCLP 2,4-D	<0.0200	mg/L	0.0200	1	05/23/17 14:11	VIC	L334303	

Qualifiers/ DF Dilution Factor Definitions MQL Method Quantitation Limit



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS 38654

Project Chickasaw Trails WWTP Information :

Report Date : 05/24/2017 Received : 5/16/2017

Rendell H. Thomas

L334002

L334002

Report Number : 17-136-0254

REPORT OF ANALYSIS

Randy Thomas Project Manager

Matrix: Sludge

Lab No : 97353 Sludge Sa

Sample ID : Sludge	Sample ID : Sludge Sampled: 5/15/2017 13:35							2017 13:35	
Analytical Method:	8151A 8151A		Prep Batch(es):	L333930	05/22/17 08	3:00			
Test		Results	Units	MQL	DI	F	Date / Time Analyzed	Ву	Analytical Batch
TCLP 2,4,5-TP (Silvex)		<0.0020	mg/L	0.0020		1	05/23/17 14:11	VIC	L334303
Surrogate: DC/	AA		48.00	Limits:	20-120%		1 05/23/17 14:1	.1 VI	C L334303
Analytical Method:	8260B		Prep Batch(es):	L333973	05/20/17 1	2:09)		
Prep Method:	5030B								
Test		Results	Units	MQL	D	F	Date / Time Analyzed	Ву	Analytical Batch
TCLP Benzene		<0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP Carbon Tetrachlo	oride	<0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP Chlorobenzene		< 0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP Chloroform		< 0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP 1,4-Dichlorobenz	zene	< 0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP 1,2-Dichloroetha	ne	< 0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP 1,1-Dichloroethe	ne	< 0.0100	mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP Methyl Ethyl Ket	one (MEK)	<0.200	mg/L	0.200)	1	05/20/17 19:21	LAT	L334002
TCLP Tetrachloroether	ne	<0.0100	mg/L	0.0100	0	1	05/20/17 19:21	LAT	L334002
TCLP Trichloroethene		< 0.0100	mg/L	0.0100	0	1	05/20/17 19:21	LAT	L334002
TCLP Vinyl Chloride		< 0.0100	mg/L	0.0100	0	1	05/20/17 19:21	LAT	L334002
Surrogate: 4-E	Bromofluorobenzene		98.4	Limits	: 71-137%		1 05/20/17 19:	21 LA	AT L334002
Surrogate: Dit	promofluoromethane		95.4	Limits	: 70-128%		1 05/20/17 19:	21 LA	AT L334002

88.8

95.4

Qualifiers/ **Dilution Factor** DF Definitions

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane - d4

Method Quantitation Limit MQL

1 05/20/17 19:21 LAT

1 05/20/17 19:21 LAT

Limits: 63-136%

Limits: 70-130%



02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch , MS 38654

Project Chickasaw Trails WWTP Information : Report Date : 05/24/2017 Received : 5/16/2017

Rendell H. Thomas

Report Number : 17-136-0254

REPORT OF ANALYSIS

Randy Thomas Project Manager

Sampled: 5/15/2017 13:35

Matrix: Sludge

Lab No : 97353 Sample ID : Sludge

Analytical Method:8270CPrep Method:3510C

Prep Batch(es): L334021 05/22/17 11:00

Prep Method: 5510C								
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
						000	1224102	
TCLP 2-Methylphenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP 3&4 Methylphenol	<0.040	mg/L	0.040	1	05/22/17 16:16	CGC	L334103	
TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP Hexachlorobenzene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP Hexachlorobutadiene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP Hexachloroethane	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP Nitrobenzene	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP Pentachlorophenol	<0.040	mg/L	0.040	1	05/22/17 16:16	CGC	L334103	
TCLP Pyridine	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP 2,4,5-Trichlorophenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020	1	05/22/17 16:16	CGC	L334103	
Surrogate: TCLP 2.4.6-Tribrom	ophenol	52.6	Limits: 40-125%		1 05/22/17 16:1	6	L334103	
Surrogate: TCLP 2-Fluorobiphe	nyl	49.5	Limits: 38-107%		1 05/22/17 16:1	16	L334103	
Surrogate: TCLP 2-Fluoropheno	bl	26.9	Limits: 20-110%		1 05/22/17 16:	16	L334103	
Surrogate: TCLP 4-Terphenyl-c	14	74.3	Limits: 33-122%		1 05/22/17 16:	16	L334103	
Surrogate: TCLP Nitrobenzene-	·d5	54.3	Limits: 29-110%		1 05/22/17 16:	16	L334103	ł
Surrogate: TCLP Phenol-d6		21.0	Limits: 10-115%		1 05/22/17 16:	16	L334103	ł

Qualifiers/ Definitions DF Dilution Factor

MQL Method Quantitation Limit



6/15/2017

Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch, MS, 38654

Ref: Analytical Testing Lab Report Number: 17-160-0296 Client Project Description: Chickasaw Trails WWTP

Dear Mr. Robert Richmond: Waypoint Analytical, Inc. received sample(s) on 6/9/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #4	0750	Louisiana	#04015	VA NELAP	#460181	Texas	#T104704180-11-6	Arkansas	#88-0650
Mississippi		California	#2904	NC	#415	Oklahoma	#9311	Virginia	#00106
Kentucky #9	0047	Tennessee	#TN02027	EPA	#TN00012	Kentucky UST	#41		





02809 Metro Desoto WWTP Mr. Robert Richmond 11299 Stateline Rd Olive Branch , MS 38654

Project Chickasaw Trails WWTP Information :

Report Date : 6/15/2017

Report Number : 17-160-0296

REPORT OF ANALYSIS

Received : 6/9/2017

Lab No : 96879 Sample ID : Digester Sludge Matrix: **Solids** Sampled: **6/8/2017 13:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Aroclor 1016	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1221	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1232	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1242	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1248	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1254	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Aroclor 1260	<0.0749	mg/Kg	0.0749	1	06/15/17 04:10	VIC	8082
Surrogate: Decachlorobiphenyl	63.1		Limits: 25-125%	1 0	6/15/17 04:10 \	/IC	8082
Surrogate: Tetrachloro-m-xylene	93.8		Limits: 25-125%	1 0	6/15/17 04:10 \	/IC	8082



Cooler Receipt Form

Customer Number	: 02809
Customer Name:	Metro Desoto WWTP
Damant Niccosham	17 160 0206

Report Number: 17-160-0296

Shipping Method											
◯ Fed Ex	◯ US Postal	🕒 Lab		Other :							
	◯ Client		ər	Thermometer ID:	#8						
Shipping contain	ner/cooler uncompromi	sed?	• Yes	🔿 No							
Number of coole	ers received		1								
Custody seals in	tact on shipping contai	ner/cooler?	⊖ Yes	🔿 No	Not Requi	ired					
Custody seals in	tact on sample bottles	?	⊖ Yes	🔿 No	Not Requi	ired					
Chain of Custod	y (COC) present?		• Yes	🔵 No							
COC agrees with	h sample label(s)?		• Yes	🔿 No							
COC properly co	ompleted		• Yes	🔿 No							
Samples in prop	er containers?		Yes	🔘 No							
Sample containe	ers intact?		Yes	🔘 No							
Sufficient sample	e volume for indicated	test(s)?	Yes	🔿 No							
All samples rece	eived within holding time	e?	Yes	🔿 No							
Cooler temperat	ure in compliance?		Yes	🔿 No							
Cooler/Samples Samples were co process had beg	arrived at the laborato onsidered acceptable a gun.	ry on ice. as cooling	Yes	⊖ No							
Water - Sample	containers properly pre	eserved) Yes	🔘 No	N/A						
Water - VOA via	Is free of headspace		⊖ Yes	🔘 No	N/A						
Trip Blanks rece	ived with VOAs		⊖ Yes	○ No	N/A						
Soil VOA method	d 5035 – compliance c	riteria met	◯ Yes	◯ No	N/A						
High concent	tration container (48 hr)		w concentration EnC	ore samplers (48 h	nr)					
High concent	ration pre-weighed (me	ethanol -14 d) 🗌 Lo	w conc pre-weighed	vials (Sod Bis -14 c	d)					
Special precaution	ons or instructions inclu	uded?	⊖ Yes	No							
Comments:											

Signature: Kristina A. McAdams

Date & Time: 06/09/2017 13:51:04

			5		r cus	I ODY R	ECORI	O ork Orde	Metro Des Chickasav	oto WWTP / Trails WWTP		13 000	809-2017 -09-2017 :48:18
iompany Aitchel	Name I Technical Services, In	5	Phone#: 6	62-893-0773		Fax Results	-			1000	Doctoria		
roject/Si	te:		Email: rwri FID#:	nts@yahoo.co	ε	RUSH				Note special de	ysis kequest tection limit	ted ts or metho	(sp
Chickas	aw Trails WWTP		PA#: 5500			Ice							
roject #:			Matrix:	Wastewater 1				1	То				F
Project Ma	anager/Contact: Richmond			2 Aqueous 3 Soil/Sedimen	4 500 5 011/ t 6 0th	age Solvent Ier	BOD	VH ₃ -I TSS	otal P(Preserva
t of ont.	Sample ID/Number	Depth	Sample Date	Sample Time	Matrix	Type		N	СВ				ation
7	Digester Sludge		6/8/17	1303	MM	Grab			×				
									<				Cool <6°C
												_	
	-												
mpled By VR		Method of Ship	ment			Remarks							
INQUSH	IED BY (sign)	Courier		DATF	TIME	RECEIVED BY Total	and		0				
LINQUSH	ED BY (sign)	A		0/a/17 DATE	TIME	RECEIVED BY (sign	E C	Jan	On	6 DA	TE T	IME O	Sample Delivery
LINQUSH	Proving Contraction		6.9.1	PATE 13	19E	RECEIVED BY LE	tupiet int		8	AD DA		IME IME	
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3308 Bernice Avenue Russellville, AR 72802 PO Box 3036 - Russellville, AR 72811 Phone: 479-498-0500

CONSENT FOR BIOSOLIDS USE

Site/Farm Location: Nuck-Is Rd Fayette Consty

Acreage: 13 o

Crop: Burmade

_____(Owner), agree to accept biosolids (a by-product of waste water treatment plants) I. for use as a soil amendment/fertilizer on the above described property from Denali Water LLC (Denali). I understand that Denali will coordinate biosolids deliveries with my farm operator (leasee) hereinafter unless otherwise advised by me. I also certify that I am the holder of legal title to the above described property or authorized by the holder to give consent for the land application of biosolids.

I understand that the following conditions apply to my land following biosolids applications and that I and/or my farm operator (leasee) will be responsible for following these conditions where applicable:

- a. Animals shall not be allowed to graze on the land for 30 days after application of biosolids.
- b. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- c. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface ≥ 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
- d. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after the application of biosolids.
- e. Turf grown on land where biosolids is applied shall not be harvested for one year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- f. Public access to land with a high potential for public exposure shall be limited for one year after application of biosolids. Public access to land with a low potential for public exposure shall be limited for 30 days after application of biosolids.

I agree to allow Denali and/or any biosolids regulatory staff to access my property for the purpose of permitting, inspecting, applying, or any biosolids related activity. I reserve the right to ask the above parties for proper identification at any time. The term of this Consent shall continue until written notification is given by either party to terminate this agreement. The landowner and tenant retain complete control over the referenced lands.

Owner Name (Please Print)

Åddress

- 11. is Az 852.66 City, County, State, Zip

Phone Number Jud

Jamerson Forms Operator/Leasee Name (Please Print)

<u>/~ / ~ 339</u> Address

<u>Rossuille Ty 38266</u> City, County, State, Zip

Date

901-485-5511 Phone Number

Signature



BACKGROUND INFORMATION/QUESTIONS		
	FILL IN BELC	W
WWTP NAME	Chickasaw Trails	
WWTP NPDES PERMIT NUMBER	MS0060046	
SITE NAME	Nuckolls Farm	
COUNTY	Fayette	
E.A.C.		
SITE TRACKING NUMBER	N/A	
LABORATORY NAME	Waypoint Analytical, M	lemphis
DATE OF ANALYSIS		10/8/19
SLUDGE/BIOSOLID ANALYSIS LABOR	ATORY RESULTS	
(Attached a copy of the laboratory analysis used for thes	e calculations to this report	t)
TOTAL KJELDAHL NITROGEN (TKN)	16,700	mg/kg
AMMONIUM NITROGEN (NH ₄ -N)	7,640	mg/kg
NITRATE + NITRITE NITROGEN (NO ₃ -N + NO ₂ -N)	56	mg/kg
NITROGEN FROM SUPPLEMENTAL FERTILIZERS (If Appropriate)		lbs/acre
NITROGEN FROM IRRIGATION WATER (If Appropriate)		lbs/acre
NITROGEN FROM PREVIOUS CROP (Unless 2 is based on soil testing)		lbs/acre
OTHER (If Appropriate) Specify		lbs/acre
SELECT CROP TYPE		
(SELECT ONLY ONE)	YES	
1 - CORN (GRAIN) EXPECT YIELD 100 - 125 BUSHELS		
2 - CORN (GRAIN) EXPECT YIELD 126 - 150 BUSHELS		
3 - CORN (SILAGE) EXPECT YIELD 20 TONS		
4 - SOYBEANS EXPECT YIELD 30 BUSHELS		
5 - SOYBEANS EXPECT YIELD 40 BUSHELS		
6- SOYBEANS EXPECT YIELD 50 BUSHELS		
7- WHEAT EXPECT YIELD 40 BUSHELS		
8 - SUMMER ANNUAL GRASS EXPECT YIELD 6 TONS (1 CUTTINGS)		
9 - HYBRID HAY EXPECT YIELD 8 TONS (4 CUTTINGS)	 Image: A set of the set of the	
10 - TALL FESCUE HAY EXPECT YIELD 3 TONS (2 CUTTINGS)		
11 - ORCHARD GRASS HAY EXPECT YIELD 4 TONS (2 CUTTINGS)		
12 - SORGHUM (GRAIN) EXPECT YIELD 60 BUSHELS		
13 - COTTON EXPECT YIELD 1 BALE / ACRE		
14 - COTTON EXPECT YIELD 1.5 BALE / ACRE		
CROP TYPE (LBS N/ACRE/YEAR)		200









Owner:	Carl Nuckolls
Operator:	Jamerson Farms
Address:	Farm - Nuckolls Road
	Macon, TN
Phone:	Jamerson - 901-485-5516



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Trees	
Creek or Ditch	\$
Property Line	\$
fields	
setbacks	
ortho_1-1_1n_s_tn047_2016_1	6

Owner:	Carl Nuckolls
Operator:	Jamerson Farms
Address:	Farm - Nuckolls Road
	Macon, TN
Phone:	Jamerson - 901-485-5516