

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

Gen Nan	erator he: Chickasaw Trails Wastewater Treatment Plant	(/SI)(In)(II)(An=(II))	Existing Fracking No:	
Own	er or Operator: (the person or legal entity which controls the site's operatio			
0 111	Name of Official Contact Person: (individual responsible for a site) Justin Hall	Title or Position: Executive [Director	
1	Mailing Address: 520 J.M. Ash Drive	City: Holly Springs	State: MS	^{Zip:} 38635
	Phone: ()662.252.3916	rwrmts@yahoo.	com	
	Name of Local Contact Person: (if appropriate, write "same as #1") Robert Richmond	Title or Position: Project Mar	nager	
2	Site Address: (this may or may not be the same as street address) 1019 Dogwood Road	Site City: Cayce	TN MS	^{Zip:} 38611
	Phone:) 901.598.2806	rwrmts@yahoo.		
	Write in the box (to the right)	or circle the number (above) to indicate wh	ere to send correspor	idence:
pern	non-exceptional biosolids land application sites that have been it will be covered under this permit upon receipt of the sign oval letter(s).	en approved by the division prior to led certification statement, complete	the effective dated NOI and a co	te of this by of site
A.	OPERATIONAL INFORMATION: Estimated annual amount of biosolids generated (dry weig Estimated annual amount of biosolids to be land applied (december 2).	ht basis) 30 dry weight basis) 30		(tons)
В.	BIOSOLIDS TREATMENT PROCESS: Please provide biosolids being land applied (use a separate sheet if necess	ide a description of the biosolids	treatment proce	
Solids	ning sewage is screened and transferred to the sequential bat is are transferred to an aerobic digester where the material digesternal Creek.	ch reactor (SBR) where the solids so	ettle to the botton and discharged to	n. The settled a tributary of the
C.	 CHEMICAL ANALYSIS: Indicate which contaminant s Table 1 Ceiling Contaminant Concentrations: Submit analytical results to demonstrate eligibits General Permit. Submit PCB and TCLP analytical results that are 	Table 3 Contaminant (lity for and compliance with the	Concentrations: quality criteria	specified in the
See	attached analysis. The material is non-hazard		nt Concentra	tion
com	ppliant.			
D.	PATHOGEN REDUCTION LEVEL ACHIEVED: Ind. A, Alternatives 5 and 6; for Class B, Alternatives 2 and 3 Process to Significantly Reduce Pathogens (PSRP). Class A: Alternative 1 Alternative 4 Alternative 4 Alternative 1 Class B: Alternative 1 Alternat	itive 2 Altern tive 5 Altern (List Eq. process. Attach laboratory analy	er Reduce Pathonative 3 native 6 PFRP) native 3 PSRP)	ogens (PFRP) or
The resu	settled solids transferred from the sequential ilting in a Class B biosolid as it relates to path	batch reactor are aerobica	ally digested	onsite

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

E.		RACTION RED	OUCTION LEVEL ACHIEVED: Indicate the option used	d to achieve the v	vector attraction
	reduction.				
	Option 1 Option 5		tion 2		
			tion 6 Option 7 Option 8 reduction Options 1 - 5 is selected, do the biosolids r	most Class A m	
	requirements pric	or to or at the san	ne time as meeting the vector attraction reduction requirem	neet Class A pa	amogen reduction
	Yes	No.	the time as meeting the vector attraction reduction requirem	icitis.	
	Provide a detaile	d description of t	he vector attraction reduction treatment process. Attach la	aboratory analyti	cal and/or process
	monitoring result	ts, as appropriate.	, that demonstrate vector attraction reduction is being achie	eved:	P
The			from the sequential batch reactor are aerobic		d oneite
Alth	ough not initis	ally tested for	volatile solids and/or SOUR, an attempt will	ho made pri	ortolond
anni	lication to ma	at oither Opti	on 1 or Option 4. If the meterial fails to make	be made pri	or to land
Opti	on 10 will be	ereimei Obiii	on 1 or Option 4. If the material fails to mee	t Option 1 or	Option 4,
Opti	on 10 will be	utilizea.			
F.	If one of the vect	or attraction redu	action Options 1 - 8 above was not performed, indicate how	v the vector attra	ction reduction
	will be performed	d on the field as p	part of the land application process:		
	Option 9 (Su	bsurface Injecti-	on)	n)	
11.0 11					
If Opti	on 1 or Option 4 fa	iil, the material wil	I be land applied as a liquid and will be incorporated within 6	hours in accordar	nce with Option 10.
G.	SAMPLING PL	AN: Include a	detailed copy of the biosolids sampling plan as specified	i - 1 - i - 1 - 1	771 1:
0.	plan must addres	s sampling prote	ocols for contaminants, pathogen reduction, and vector at	in the instruction	ns. The sampling
Due to t	the small size of the plan	nt and resultant small a	mount of material generated, the biosolids will be sampled on an event-timed by	pasis and immediately	prior to land application.
H.					838
	LAND APPLIC	ALION AREA	S): Include a list of land application area(c) that will be	so used for dien	anal af 1: 1: 1-
	Attach a datailed	man abausina an	(s): Include a list of land application area(s) that will be	be used for disp	osai oi biosoiids.
	Attach a detailed	map showing ap	propriate buffers in accordance with section 3.2.1 (add add	litional pages if r	necessary)
	Attach a detailed Area Number	map showing ap	propriate buffers in accordance with section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2	litional pages if r Latitude	Longitude
	Attach a detailed	map showing ap	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2	Latitude (decimal)	Longitude (decimal)
	Area Number	Area (acres)	propriate buffers in accordance with section 3.2.1 (add add	litional pages if r Latitude	Longitude
	Area Number	Area (acres)	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2	Latitude (decimal)	Longitude (decimal)
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	Area Number	Area (acres)	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2	Latitude (decimal)	Longitude (decimal)
	Area Number TN-FA-1	map showing ap Area (acres) ~112.5	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be ~8 DryTon/Acre at ~3.5% solids	Latitude (decimal) 35.136145	Longitude (decimal) -89.553261
I.	Area Number TN-FA-1 CERTIFICATIO	Area (acres) ~112.5 ON: I certify, un	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be ~8 DryTon/Acre at ~3.5% solids ander penalty of law, that contaminant concentrations in the section of the section o	Latitude (decimal) 35.136145	Longitude (decimal) -89.553261
I.	Attach a detailed Area Number TN-FA-1 CERTIFICATIO vector attraction r	Area (acres) ~112.5 ON: I certify, undeduction, and other	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the per quality criteria of the biosolids stated in the regulations	Latitude (decimal) 35.136145 he biosolids, pats have been met s	Longitude (decimal) -89.553261
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I.	CERTIFICATIOn were prepared un properly gathered person(s) who ma	Area (acres) ~112.5 ON: I certify, undeduction, and other to land application, and evaluated anage the system	Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the results of the information submitted. Based on my own knowled, or those directly responsible for gathering the information.	he biosolids, pats have been met of assure that que ge as well as the on the informat	thogen reduction, or, if appropriate, d all attachments alified personnel ne inquiry of the
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I.	CERTIFICATIOn were prepared un properly gathered person(s) who mat the best of my knows biosolids described	ON: I certify, undeduction, and other to land application and evaluated anage the system to land above is eligible above is eligible.	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the results of the information submitted. Based on my own knowled, or those directly responsible for gathering the information in the first of the content o	he biosolids, pats have been met of this document and assure that quige as well as the informatie that the facilitid Application of	thogen reduction, or, if appropriate, d all attachments alified personnel ne inquiry of the ion submitted, to y or generator of Biosolids Lam
I.	CERTIFICATIOn were prepared un properly gathered person(s) who mathe best of my knowled biosolids describe aware that there a	DN: I certify, undeduction, and other to land application and evaluated anage the system to land evaluated anage the syst	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the results of the information in accordance with a system designed the information submitted. Based on my own knowled or those directly responsible for gathering the information in the first or those directly responsible for gathering the information in the concentration of the Lambalties for submitting false information, including possibility of the Lambalties for submitting false information, including possibility.	he biosolids, pats have been met of assure that quige as well as the informative that the facilit d Application of ity of fines and ity of fin	thogen reduction, or, if appropriate, dall attachments alified personnel ne inquiry of the ion submitted, to y or generator of Biosolids. I am
I.	CERTIFICATIOn were prepared un properly gathered person(s) who mathe best of my knowled biosolids describe aware that there a	ON: I certify, undeduction, and other to land application and evaluated anage the system to a solution and to land evaluated anage the system to a solution and the solution anamed and the solution and the solution and the solution and the s	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the results of the information submitted. Based on my own knowled, or those directly responsible for gathering the information in the first of the content o	he biosolids, pats have been met of assure that quige as well as the informative that the facilit d Application of ity of fines and ity of fin	thogen reduction, or, if appropriate, dall attachments alified personnel ne inquiry of the ion submitted, to y or generator of Biosolids. I am
1.	CERTIFICATION were prepared un properly gathered person(s) who mat the best of my kn biosolids describe aware that there a knowing violation penalty of perjury	Area (acres) Area (acres) ~112.5 DN: I certify, unreduction, and off to land application and evaluated anage the system anage the system and evaluated anage the system anage the system and evaluated anage the system	Application Rate (tons/acre) per section 3.2.1 (add add Application Rate (tons/acre) per section 3.2.2 Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids inder penalty of law, that contaminant concentrations in the quality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the or supervision in accordance with a system designed the information submitted. Based on my own knowled, or those directly responsible for gathering the information in the first true, accurate and complete. I further acknowledgule for coverage under TDEC's General Permit for the Lambalties for submitting false information, including possibilin Tennessee Code Annotated Section 39-16-702(a)(4).	he biosolids, pats have been met chis document and assure that quige as well as thou, the informative that the facilit did Application of ity of fines and it, this declaration	thogen reduction, or, if appropriate, dall attachments alified personnel ne inquiry of the ion submitted, to y or generator of Biosolids. I am
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I.	CERTIFICATION Vector attraction rewill be met prior were prepared un properly gathered person(s) who may the best of my know biosolids describe aware that there a knowing violation penalty of perjury Name: Robert Signature:	DN: I certify, undeduction, and other to land application, and evaluated anage the system and above is eligible are significant per	Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the information in accordance with a system designed the information submitted. Based on my own knowled, or those directly responsible for gathering the information in the for coverage under TDEC's General Permit for the Lambalties for submitting false information, including possibility in Tennessee Code Annotated Section 39-16-702(a)(4). Title: Plant M.	he biosolids, pats have been met of the informative that the facilit d Application of ity of fines and it, this declaration	thogen reduction, or, if appropriate, dall attachments alified personnel ne inquiry of the ion submitted, to y or generator of Biosolids. I am
I.	CERTIFICATION Vector attraction rewill be met prior were prepared un properly gathered person(s) who may the best of my knowled by the biosolids describe aware that there a knowing violation penalty of perjury Name: Power Signature: 1000 Pelephone: (901)	DN: I certify, undeduction, and other to land application and evaluated anage the system to all above is eligible to significant per significa	Bermuda Hay - application rate would be -8 DryTon/Acre at -3.5% solids ander penalty of law, that contaminant concentrations in the requality criteria of the biosolids stated in the regulations on of biosolids. I further certify that other information in the information in accordance with a system designed the information submitted. Based on my own knowled, or those directly responsible for gathering the information in the for coverage under TDEC's General Permit for the Lambalties for submitting false information, including possibility in Tennessee Code Annotated Section 39-16-702(a)(4). Title: Plant M.	he biosolids, pats have been met of this document an o assure that quige as well as the informative that the facility of fines and it, this declaration	thogen reduction, or, if appropriate, dall attachments alified personnel ne inquiry of the ion submitted, to y or generator of F Biosolids. I am imprisonment for n is made under

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



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 Nam	erator Chickasaw Trails Wastewater Treatment Plant	Current NPDES No: MS0060046-001	Existing Tracking No:							
Owne	er or Operator: (the person or legal entity which controls the site's operation	(II) Marchall I Itility Services								
	Name of Official Contact Person: (individual responsible for a site) Justin Hall	Title or Position: Executive	Director							
1	Mailing Address: 520 J.M. Ash Drive	City: Holly Springs	State: MS	Zip: 38635						
	Phone:) 662.252.3916	rwrmts@yahoo	o.com							
	Name of Local Contact Person: (if appropriate, write "same as #1") Robert Richmond	Title or Position: Project Ma	•							
2	Site Address: (this may or may not be the same as street address) 1019 Dogwood Road	Site City: Cayce	TN MS	^{Zip:} 38611						
	Phone: opening of the property									
	Write in the box (to the right)	or circle the number (above) to indicate v	where to send correspon	dence:						
pern	non-exceptional biosolids land application sites that have be nit will be covered under this permit upon receipt of the sign oval letter(s).									
A.	OPERATIONAL INFORMATION:	tht basis) 30								
	Estimated aimidal amount of biosonids generated (dry weight basis)									
В.	BIOSOLIDS TREATMENT PROCESS: Please prov		le traatment proce	(tons)						
ь.	biosolids being land applied (use a separate sheet if necess		is treatment proce	ss used prior to						
solid	ming sewage is screened and transferred to the sequential bas are transferred to an aerobic digester where the material digeonnah Creek.									
C.	 CHEMICAL ANALYSIS: Indicate which contaminant rable 1 Ceiling Contaminant Concentrations: Submit analytical results to demonstrate eligib General Permit. Submit PCB and TCLP analytical results that are 	Table 3 Contaminan ility for and compliance with the		x specified in the						
	e attached analysis. The material is non-hazar apliant.	dous and is Table 3 Pollut	ant Concentra	tion						
D.	PATHOGEN REDUCTION LEVEL ACHIEVED: Inc. A, Alternatives 5 and 6; for Class B, Alternatives 2 and Process to Significantly Reduce Pathogens (PSRP). Class A: Alternative 1 Alternative 4 Alternative 4 (List PFRP)	3, list the specific Process to Functive 2 Alto List E (List E								
	(List PSRP)	(List E	ernative 3 q. PSRP) —							
	Provide a detailed description of the pathogen treatmen results, as appropriate, that demonstrate pathogen reduction	on is being achieved:								
	e settled solids transferred from the sequentia ulting in a Class B biosolid as it relates to patl		cally digested	onsite						

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

E.		RACTION RED	UCTION LEV	EL ACHIEVED	Indicate the option used	to achieve the v	ector attraction
	reduction.			7			
	Option 1		ion 2	Option 3	Option 4		
	Option 5		ion 6	Option 7	Option 8	Class A	41
					ted, do the biosolids m		tnogen reduction
	Yes	or to or at the sam	ie time as meetir	ig the vector attra	ction reduction requirem	ents?	
		_	ne vector attracti	on reduction tree	tment process. Attach la	horatory analytic	eal and/or process
					reduction is being achie		ai aliu/oi process
T I.	•				•		1 26 .
					reactor are aerobio		
					JR, an attempt will		
app	lication to mee	et either Option	on 1 or Optic	on 4. If the m	aterial fails to meet	Option 1 or	Option 4,
Opti	on 10 will be u	utilized.	-			-	
'							
TC	TC C.1	1	0 1	0.1	C 1 ' 1' ' 1	.1	. 1
F.					performed, indicate how	the vector attraction	ction reduction
	will be performed	i on the field as p bsurface Injecti o				")	
		osuriace injectio)II)		Option 10 (Incorporation	11)	
If Ont	ion 1 or Ontion 4 fa	il the material will	he land annlied	as a liquid and wil	be incorporated within 6	hours in accordan	nce with Ontion 10
пОрс	ion i or option + ia	ii, tric material wiii	be laria applica	as a liquia aria wii	be incorporated within o	nours in accordan	ice with option to.
G.	SAMPLING PL	AN: Include a c	letailed copy of	the biosolids san	npling plan as specified	in the instruction	ns. The sampling
					reduction, and vector at		
Due to	the small size of the plan	t and resultant small a	mount of material gen	erated, the biosolids wil	I be sampled on an event-timed b	asis and immediately	prior to land application.
H.	I AND ADDITE	ATION ADEA	g). Include e 1	ist of land applie	cation area(s) that will b	a used for disp	osal of biosalids
п.					ith section 3.2.1 (add add		
	Area Number	Area (acres)	_	ate (tons/acre) p		Latitude	Longitude
	Area Number	Area (acres)	Application N	ate (tons/acre) p	ci section 5.2.2	(decimal)	(decimal)
	TN-FA-1	~112.5	Bermuda Hay - ap	plication rate would be	-8 DryTon/Acre at ~3.5% solids	35.136145	-89.553261
I.	CERTIFICATION	ON: I certify, u	nder penalty of	law, that contam	inant concentrations in t	he biosolids, par	thogen reduction,
					s stated in the regulation		
	will be met prior	to land application	on of biosolids.	I further certify t	hat other information in	this document an	nd all attachments
	were prepared ur	nder my direction	n or supervision	in accordance v	vith a system designed	to assure that qu	alified personnel
					ed on my own knowled		
					r gathering the informat		
					te. I further acknowledge		
					eneral Permit for the Lar		
					nation, including possibi		
			in Tennessee	Code Annotated	Section 39-16-702(a)(4)	, this declaratio	n is made under
	penalty of perjury	7.					
	Name.				Title:		
	Name:				11116.		
	Signature:						
	Telephone: ()				Date Signed:/	/	
NOT	E: In evaluating	NOI forms, TDI	EC may request	additional inform	nation to complete its re	view to determin	ne the eligibility fo

<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.



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

L334088

L333998

L333998

Report Number: 17-136-0254

REPORT OF ANALYSIS

Randy Thomas Project Manager

97353 Lab No:

Sample ID : Sludge

Matrix: Sludge

Sampled: 5/15/2017 13:35

Test Results Units MQL DF Date / Time Analyzed TCLP Herbicide Extraction Combined 1 05/18/17 17:50 TCLP Metals Extraction Combined 1 05/18/17 17:50 TCLP Pesticide Extraction Combined 1 05/18/17 17:50 TCLP SVOC Extraction Combined 1 05/18/17 17:50	Ву	Analytical
TCLP Metals Extraction Combined 1 05/18/17 17:50 TCLP Pesticide Extraction Combined 1 05/18/17 17:50 TCLP SVOC Extraction Combined 1 05/18/17 17:50		Method
TCLP Metals Extraction Combined 1 05/18/17 17:50 TCLP Pesticide Extraction Combined 1 05/18/17 17:50 TCLP SVOC Extraction Combined 1 05/18/17 17:50		
TCLP Pesticide Extraction Combined 1 05/18/17 17:50 TCLP SVOC 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 3VOC Extraction	SAJ	SW-1311
	SAJ	SW-1311
TCLP VOC ZHE Extraction Combined 1 05/18/17 18:03	SAJ	SW-1311 (ZHE
Analytical Method: 6010C Prep Batch(es): L333788 05/19/17 10:40		
Prep Method: 3005A Test Results Units MQL DF Date / Time Analyzed	Ву	Analytical Batch
TCLP 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

mg/L

mg/L

mg/L

Qualifiers/ **Definitions**

TCLP Selenium

TCLP Lead

TCLP Silver

DF

Dilution Factor

< 0.010

< 0.050

< 0.005

MQL

0.010

0.050

0.005

Method Quantitation Limit

1 05/22/17 17:48 KKM

1 05/19/17 20:03 KKM

1 05/19/17 20:03 KKM



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

Lab No:

97353

Sample ID : Sludge

Matrix: Sludge

Sampled: 5/15/2017 13:35

05/19/17 11:25 L333803 7470A Prep Batch(es): **Analytical Method:** 7470A Prep Method: DF Date / Time Ву 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 Ву 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 mg/L TCLP gamma-BHC < 0.001600 L334285 05/23/17 01:47 VIC mg/L 0.001600 < 0.001600 TCLP Methoxychlor L334285 05/23/17 01:47 VIC mg/L 0.01200 < 0.01200 TCLP Toxaphene L334285 0.008000 05/23/17 01:47 VIC mg/L TCLP Chlordane <0.008000 05/23/17 01:47 VIC L334285 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

Surrogate: Decachlorobiphenyl 10 05/23/17 01:47 VIC L334285 Limits: 25-123% 41.21 Surrogate: Tetrachloro-m-xylene Prep Batch(es): L333930 05/22/17 08:00 Analytical Method: 8151A

Prep Method: 8151A Units MQL DF Results

82.04

Test Batch Analyzed 1 05/23/17 14:11 VIC L334303 0.0200 < 0.0200 mg/L **TCLP 2,4-D**

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Limits: 36-116%

Method Quantitation Limit

10 05/23/17 01:47 VIC

Ву

Date / Time

1334285

Analytical



02809

Lab No:

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

97353

REPORT OF ANALYSIS

Randy Thomas Project Manager

Matrix: Sludge

Sampled: 5/15/2017 13:35

Analytical Method: Prep Method:	8151A 8151A		Prep Ba	atch(es):	L333930	05/22/17	08:00			
Test		Results		Units	MQL		DF	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: DCA	NA.		48.00		Limits:	20-120%		1 05/23/17 14:1	1 VIC	L334303
Analytical Method: Prep Method:	8260B 5030B		Prep Ba	atch(es):	L333973	05/20/17	7 12:09)		
Test		Results		Units	MQL		DF	Date / Time Analyzed	Ву	Analytical Batch
TCLP Benzene		<0.0100		mg/L	0.0100	£.	1	05/20/17 19:21	LAT	L334002
TCLP Carbon Tetrachic	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	rene	<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	l.	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)	1	05/20/17 19:21	LAT	L334002
TCLP Trichloroethene		<0.0100		mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
TCLP Vinyl Chloride		< 0.0100		mg/L	0.0100)	1	05/20/17 19:21	LAT	L334002
Surrogate: 4-E	Bromofluorobenzene		98.4		Limits:	71-137%		1 05/20/17 19:	21 LAT	L33400
3	oromofluoromethane		95.4		Limits:	70-128%	,	1 05/20/17 19:	21 LAT	L33400
Surrogate: 1,2	2-Dichloroethane - d4		88.8		Limits:	63-136%		1 05/20/17 19:		
Surrogate: To	luene-d8		95.4		Limits:	70-130%)	1 05/20/17 19:	21 LA	L33400

Qualifiers/ Definitions

DF

Dilution Factor

MQL



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

Matrix: Sludge

Sampled: 5/15/2017 13:35

97353 Lab No: Sample ID : Sludge

Analytical Method: 8270C

Prep Batch(es):

L334021 05/22/17 11:00

Prep Method: 3510C							
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
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-Tribromophe	enol	52.6	Limits: 40-125%)	1 05/22/17 16:	16	L334103
Surrogate: TCLP 2-Fluorobiphenyl		49.5	Limits: 38-107%)	1 05/22/17 16:	16	L334103
Surrogate: TCLP 2-Fluorophenol		26.9	Limits: 20-110%)	1 05/22/17 16:	16	L334103
Surrogate: TCLP 4-Terphenyl-d14		74.3	Limits: 33-122%	0	1 05/22/17 16:	16	L334103
Surrogate: TCLP Nitrobenzene-d5		54.3	Limits: 29-110%	0	1 05/22/17 16:	16	L334103
Surrogate: TCLP Phenol-d6		21.0	Limits: 10-115%	o	1 05/22/17 16:	16	L334103

Qualifiers/ **Definitions**

Dilution Factor

MQL



02809

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

Project

Chickasaw Trails WWTP

Information: Digester Sludge

Report Date: 5/30/2017

Report Number: 17-143-0275

REPORT OF ANALYSIS

Received: 5/23/2017

Lab No:

93502

Sample ID : Grab 1

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	333000	MPN/g - dry	90900	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	96.7	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No:

93503

Sample ID: Grab 2

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	<83300	MPN/g - dry	83300	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	96.4	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No:

93504

Sample ID: Grab 3

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	164000	MPN/g - dry	53600	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	94.4	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No:

93505

Sample ID : Grab 4

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	<81100	MPN/g - dry	81100	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	96.3	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



02809

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

Project Chickasaw Trails WWTP

Information : Digester Sludge

Report Date: 5/30/2017

Report Number: 17-143-0275

REPORT OF ANALYSIS

Received: 5/23/2017

Lab No:

93506

Matrix: Solids

Sample ID : Grab 5

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	796000	MPN/g - dry	55600	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	94.6	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No:

93507

Sample ID : Grab 6

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	65500	MPN/g - dry	54500	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	94.5	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Lab No:

93508

Sample ID: Grab 7

Matrix: Solids

Sampled: 5/23/2017 8:06

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Fecal Coliform MPN/g	<88200	MPN/g - dry	88200	1	05/23/17 14:40	SBA	9221E-2011
% Moisture	96.6	%	0.100	1	05/24/17 15:02	CJR	2540G-2011

Geometric Mean Calculation

Date:

5/30/2017

Analyst:

C. Cook

Report Number:

17-143-0275

			Measured V	alues	
			MPN	Highest	
			<u>Index</u>	ml	0/0
#		Sample Number	Value	used	moisture
1	L	93502	11,000.0	0.001	96.7
2	L	93503	2,999.0	0.001	96.4
3	L	93504	9,200.0	0.001	94.4
4	L	93505	2,999.0	0.001	96.3
5	L	93506	43,000.0	0.001	94.6
6	L	93507	3,600.0	0.001	94.5
7	L	93508	2,999.0	0.001	96.6

Conve	Conversion to Dry Weight							
	Dry Weight							
%	MPN/g							
solids								
0.03	333,333							
0.04	83,306							
0.06	164,286							
0.04	81,054							
0.05	796,296							
0.06	65,455							
0.03	88,206							

Geometric Mean (using above values)

149,891.5



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,

Randy Thomas

Rendell H. 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.





02809

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

Project Chickasaw Trails WWTP

Information:

Report Date: 6/15/2017

Lab No : 96879 Matrix: Solids

Sample ID : **Digester Sludge** Sampled: **6/8/2017 13:03**

Test	Results	Units	MQL	I	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	1 (06/15/17 04:10	VIC	8082
Surrogate: Tetrachloro-m-xylene	93.8		Limits: 25-125%	1	1 (06/15/17 04:10	VIC	8082

Qualifiers/ Definitions DF

Dilution Factor

MQL



Cooler Receipt Form

Customer Number: 02809

Customer Name: Metro Desoto WWTP

Report Number: 17-160-0296

Shipping Method

○ Fed Ex	US Postal	Lab		Other :	
UPS	Client	Oour	ier	Thermometer ID:	#8
Shipping contain	er/cooler uncompromi	sed?	Yes	○ No	
Number of coole	rs received		1		
Custody seals in	tact on shipping conta	iner/cooler?	O Yes	○ No	Not Required
Custody seals int	tact on sample bottles	?	O Yes	○ No	Not Required
Chain of Custody	/ (COC) present?		Yes	○ No	
COC agrees with	sample label(s)?		Yes	○ No	
COC properly co	mpleted		Yes	○ No	
Samples in propo	er containers?		Yes	○ No	
Sample containe	rs intact?		Yes	○ No	
Sufficient sample	volume for indicated	test(s)?	Yes	○ No	
All samples rece	ived within holding tim	e?	Yes	○ No	
Cooler temperatu	ure in compliance?		Yes	○ No	
	arrived at the laborato onsidered acceptable a un.		Yes	○ No	
Water - Sample	containers properly pr	eserved	O Yes	○ No	● N/A
Water - VOA vial	s free of headspace		O Yes	○ No	● N/A
Trip Blanks recei	ved with VOAs		O Yes	○ No	● N/A
Soil VOA method	l 5035 – compliance c	riteria met	O Yes	○ No	● N/A
High concent	ration container (48 hr	.)	Lo	w concentration EnC	Core samplers (48 hr)
High concent	ration pre-weighed (m	ethanol -14	d) Lo	w conc pre-weighed	vials (Sod Bis -14 d)
Special precaution	ons or instructions incl	uded?	O Yes	● No	
Comments:					

Signature: Kristina A. McAdams Date & Time: 06/09/2017 13:51:04

209> 100D Sample Delivery Preservation 17.160-0296 02809 06-09-2017 13:48:18 (Note special detection limits or methods) TIME TIME Analysis Requested 69.7 DATE Metro Desoto WWTP Chickasaw Trails WWTP Total PCB × NH₃-N Work Orde TSS CHAIN OF CUSTODY RECORD BOD RECEIVED BY LAIGH RECEIVED BY (sign) Fax Results Grab/Comp Grab Remarks RUSH 4 Sludge 5 Oil/Solvent 6 Other Type Ce 1200 Matrix **≷** TIME TIME Email: rwrmts@yahoo.com 2 Aqueous 3 Soil/Sediment 1 Wastewater Phone#: 662-893-0773 Sample 1303 11/0/01 Time DATE DATE PA#: 5500 Sample Matrix: FID#: Date Method of Shipment Courier Depth Mitchell Technical Services, Inc. Sample ID/Number Digester Sludge Chickasaw Trails WWTP Project Manager/Contact: RELINQUSHED BY (sign) Robert Richmond RELINQUSHED BY (sign) Company Name Project #: Sampled By RWR RELINQUSH Н cont. # of



4/5/2017

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

Ref:

Analytical Testing

Lab Report Number: 17-083-0254

Client Project Description: Chickasaw Trails

Dear Mr. Robert Richmond:

Waypoint Analytical, Inc. received sample(s) on 3/24/2017 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,

Randy Thomas Project Manager

Rendell H. Thomas

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.





Client: Metro Desoto WWTP Project: Chickasaw Trails

Lab Report Number: 17-083-0254

Date: 4/5/2017

CASE NARRATIVE

All analytes are being reported on a dry weight basis and as received basis.



02809

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

Project

Chickasaw Trails

Information:

Report Date : 4/5/2017

Report Number: 17-083-0254

REPORT OF ANALYSIS

Received: 3/24/2017

Lab No : **96266**

Sample ID : Digester

Matrix: Solids

Sampled: 3/23/2017 10:04

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
% Moisture	96.5	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Ammonia Nitrogen	89.0	mg/Kg	25.0	1	04/04/17 09:00	ZBD '	4500NH3C-2011
Biochemical Oxygen Demand (5-day)	6670	mg/Kg	1200	1	03/24/17 11:03	DB2	5210B-2011
COD (Chemical Oxygen Demand)	20300	mg/Kg	3000	20	03/27/17 09:00	SNB	5220D-2011
Nitrate (NO3-N)	20.9	mg/Kg	1.00	1	03/31/17 18:32	BKN	9056
HEM: Oil and Grease	<1210	mg/Kg	1210	1	04/03/17 09:00	SMS	SW-9071B
	6.7	s.u.		1	03/23/17 10:04	FLD	FIELD ^
pH Total Solids	3,50	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Total Kjeldahl Nitrogen	1140	mg/Kg	50.0	1	04/04/17 14:25	CLP '	4500NORGD-201:
Total Phosphorus	336	mg/Kg	25.0	1	04/04/17 14:27	CLP	365.4
Total Arsenic	<1.00	mg/Kg	1.00	1	04/03/17 22:08	KKM	6010C
Total Cadmium	<0.100	mg/Kg	0.100	1	. 04/03/17 22:08	KKM	6010C
Total Chromium	1.73	mg/Kg	0.250	1	. 04/03/17 22:08	KKM	6010C
Total Copper	28.2	mg/Kg	0.250	1	04/03/17 22:08	KKM	6010C
Total Lead	0.941	mg/Kg	0.300	1	04/03/17 22:08	KKM	6010C
Mercury (Total)	< 0.0133	mg/Kg	0.0133	1	03/27/17 13:57	ABC	7471A
Total Molybdenum	<0.250	mg/Kg	0.250		1 04/03/17 22:08	KKM	6010C
Total Nickel	1.19	mg/Kg	0.250		1 04/03/17 22:08	KKM	6010C
Total Potassium	116	mg/Kg	5.00		1 04/03/17 22:08	KKM	6010C
	<1.00	mg/Kg	1.00		1 04/03/17 22:08	KKM	6010C
Total Selenium	<0.250	mg/Kg	0.250		1 04/03/17 22:08	KKM	6010C
Total Silver Total Zinc	32.4	mg/Kg	0.500		1 04/03/17 22:08	KKM	6010C

Qualifiers/ Definitions DF Dilution Factor

MQL



02809

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

Project Chickasaw Trails Information :

Report Date: 4/5/2017

Lab No: 96266 Matrix: Solids

Sample ID : **Digester**Sample Vi Digester

Sample ID : Digester							
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
% Moisture	96.5	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Ammonia Nitrogen	2540	mg/Kg - dry	714	1	04/04/17 09:00	ZBD	4500NH3C-2011
Biochemical Oxygen Demand (5-day)	191000	mg/Kg - dry	34300	1	03/24/17 11:03	DB2	5210B-2011
COD (Chemical Oxygen Demand)	580000	mg/Kg - dry	85700	20	03/27/17 09:00	SNB	5220D-2011
Nitrate (NO3-N)	597	mg/Kg - dry	28.6	1	03/31/17 18:32	BKN	9056
HEM: Oil and Grease	<34600	mg/Kg - dry	34600	1	04/03/17 09:00	SMS	SW-9071B
pH	6.7	s.u.		1	03/23/17 10:04	FLD	FIELD ~
Total Solids	3.50	%	0.100	1	03/27/17 16:33	CJR	2540G-2011
Total Kieldahl Nitrogen	32600	mg/Kg - dry	1430	1	04/04/17 14:25	CLP	4500NORGD-201:
Total Phosphorus	9600	mg/Kg - dry	714	1	04/04/17 14:27	CLP	365.4
Total Arsenic	<28.6	mg/Kg - dry	28.6	1	. 04/03/17 22:08	KKM	6010C
Total Cadmium	<2.86	mg/Kg - dry	2.86	1	04/03/17 22:08	KKM	6010C
Total Chromium	49.4	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Copper	806	mg/Kg - dry	7.14	1	04/03/17 22:08	KKM	6010C
Total Lead	26.9	mg/Kg - dry	8.57	1	04/03/17 22:08	KKM	6010C
Mercury (Total)	<0.380	mg/Kg - dry	0.380		03/27/17 13:57	ABC	7471A
Total Molybdenum	<7.14	mg/Kg - dry	7.14		1 04/03/17 22:08	KKM	6010C
Total Nickel	34.0	mg/Kg - dry	7.14		1 04/03/17 22:08	KKM	6010C
Total Potassium	3310	mg/Kg - dry	143		1 04/03/17 22:08	KKM	6010C
Total Selenium	<28.6	mg/Kg - dry	28.6		1 04/03/17 22:08	KKM	6010C
Total Silver	<7.14	mg/Kg - dry	7.14		1 04/03/17 22:08	KKM	6010C
Total Zinc	926	mg/Kg - dry	14.3		1 04/03/17 22:08	KKM	6010C
TOTAL ZILIC	320						

Qualifiers/ Definitions Dilution Factor

DF

MQL



Cooler Receipt Form

Customer Number: 02809

Customer Name: Metro Desoto WWTP

Report Number: 17-083-0254

Shipping Method

Fed Ex	· C	US Postal Client	Lab Courie	er		Other		#10	and a side of the first of the contract of the first of the contract of the co
Shipping o	container/co	oler uncomprom	nised?	•	Yes		No		
Number of	f coolers red	ceived		3	1				
Custody s	eals intact c	on shipping cont	ainer/cooler?	1	Yes		No		Not Required
		on sample bottle		0	Yes		No	•	Not Required
		C) present?		•	Yes	0	No		
COC agre	es with sam	nple label(s)?		•	Yes		No		
	erly comple			•	Yes	0	No		
	in proper co	490			Yes		No		
	ontainers in				Yes		No		
		ume for indicate	d test(s)?	•	Yes		No		
All samples received within holding time?					Yes		No		
		n compliance?		•	Yes	(_)	No		
Cooler/Sa Samples	amples arriv	red at the labora dered acceptable	tory on ice. e as cooling	•	Yes	C	No		
Water - S	ample conta	ainers properly p	oreserved	•	Yes		No		N/A
		e of headspace		(_	Yes	Ĺ	No	•	N/A
Trip Blanl	ks received	with VOAs			Yes		No	•	N/A
Soil VOA	method 503	35 – compliance	criteria met		Yes		No		N/A
		on container (48			Lo	w concent	ration En	Core sar	mplers (48 hr)
		n pre-weighed (d)	Lo	w conc pre	e-weighe	d vials (S	Sod Bis -14 d)
		or instructions in		(Yes	•	No		
Comme			ango iscuos w	ill be	recor	ded on nor	n-compliz	ance reno	ort.
	Any regula	tory non-compli	ance issues w	ill be					
	Signature:	Rebekah Ross	3		Date	e & Time:	03/24/2	017 12:5	7:57



Digester

Digester

Digester

1004

1004

3/23/17

2790 Whitten Road Memphis TNI 20122

H2SO4 - Sulfurio

Acid

HNO3 - Nitric

Acid

H2SO4 - Sulfurio

Acid

COD

As/Cd/Cr/Cu/Pb/Hg/Ni/Ag/Z

0&G

Metro Desoto WWTP

Plastic - Pint

Plastic - Pint

Glass - 4oz

Chickasaw Trails

17-083-0254 02809 03-24-2017 12 57:39

CHAIN-OF-CUSTOI

Kit ID: 0000078727
Initiated By: Randy Thomas
Project Commment

Company N	ame		Company Number		Client P	roject N	Manager/Contact		Purchase Order Number		
Mitchell Metro Desot	Teducial	SURIUS	02809		Metro De	esoto W	/WTP	THE PERSON NAMED IN COLUMN TO PE	5468		
Site Name			Project Number	The state of the s	RUS	ı - Addı	tional charges apply		Method of	Shipment UPSUSPS	
Unichasan	Trails			***************************************	Special Detection Limits(s)				Courier Client Drop Off		
Stres Haulee	Difes Hautee Waste			Date Re	sults Ne	eded		Other			
LIMS Proje	LIMS Project ID Project Manager Phone #			one#	Project	Manag	er Email		Site/Facility ID #		
			(662) 893-0773								
Date	Time		Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Pres	ervation	Analyses	
400			1	Aqueous	G	1	Plastic - Pint	ŕ	NONE	pH/TSS/BOD	
3 23 17	1004	Diges	tev					-			

G

G

3

1

1

Aqueous

Aqueous

Aqueous

	For Laborator	y Use Only	Sampled by (Name - Print)	Client Remarks	•	
Ice	Custody	Lab Comments	2 wr	Same	ple pH is 6.7	
	Seals		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
(Y)N	Y/N		AAN: H	3/24/17 1215	Cutho	32417121
			Relinquished by: (SIGNATURE)	Date Time	Received by (SIGNATURE)	Date Time
Blank/C	oler Temp					
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
(1.00	7-16	Dutto	32417/249	with	3341714
			1/1			



August 10, 2017

Jeff Retzke Denali Water Solutions 35 Refreshment Place Decatur, AL 35601

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

LabNumber	Sample Description	Date/Time Collected	Date Submitted
1710800-01	Outflow Sludge Holding Tank	8/3/17 11:35	8/3/17

ENERSOLV is accredited to ISO/IEC 17025:2005 by Laboratory Accreditation Bureau and to the TNI 2003 Standard by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by ENERSOLV are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed in accordance with ENERSOLV Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. *ENERSOLV* considers this report your official record. This information shall remain in *ENERSOLV*'s active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Karen Sutton

Vice President Client Services

Karen Sutton



SAMPLE RESULTS REPORT

REPORT TO

Jeff Retzke Denali Water Solutions 35 Refreshment Place Decatur, AL 35601



ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.



Cert# L2239 Testing

Report Date/Time: 08/10/2017 11:33

NELAP Accredited Florida DOH #E871078 ENERSOLV also maintains ISO/IEC 17025 accreditation through Laboratory Accreditation Bureau for the specific tests listed in L-A-B Certificate #L2239 scope of accreditation.

ADEM
Drinking Water
Certification
No. 40160

Submitted: 08/03/2017

Tests within the scope of accreditation are indicated by an asterisk (*).

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

Analyte Name	Result	Units	Qual	Regulatory Limit
--------------	--------	-------	------	---------------------

Sample Point: Outflow Sludge Holding Tank

Inorganics

Specific Oxygen Consumption Rate

Sample ID: 1710800-01

0.899 (mg/g)/h (dw)

Collected: 08/03/2017



SAMPLE RESULTS REPORT

REPORT TO

Jeff Retzke Denali Water Solutions 35 Refreshment Place Decatur, AL 35601



ENERSOLV maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.



Report Date/Time: 08/10/2017 11:33

NELAP Accredited Florida DOH #E871078 ENERSOLV also maintains ISO/IEC 17025 accreditation through Laboratory Accreditation Bureau for the specific tests listed in L-A-B Certificate #L2239 scope of accreditation.

ADEM
Drinking Water
Certification
No. 40160

Tests within the scope of accreditation are indicated by an asterisk (*).

This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ENERSOLV Corporation.

All calculations are performed prior to rounding per EPA and Standard Methods requirements.

Data Qualifiers:

< Less than reporting limit

Analysis Information

				Analysis	Analysis
Lab Number	Analysis	SpecificMethod	Analyst	Start Date/Time	End Date/Time
1710800-01	Specific Oxygen Uptake Rate	SM 2710B	SH	08/03/2017 15:25	

The results contained in this report are only representative of the sample(s) received.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

|--|

www.enersolv.com

COMPANY/CLIENT NAME	ĮŲ.	CE	CLIENT P.O. NUMBER	NUMBER	ENER	ENERSOLV PROJECT NUMBER	T NUMBER				AND THE RES		
Denali Water			1619	0						REQUESTED		ANALYSES	
CLIENT POINT OF CONTACT	TACT	CLIENT PHYSICAL ADDRESS	ICAL ADDR	ESS	CITY	CITY/STATE/ZIP							
Jeff Retzke		35 Refreshment Place	nment P	ace INFOR	\neg	Decatur, AL 35601	601						
Jeff.retzke@denaliwater.com	iwater.com	2565034300	00 Chi	CKasav TED REPO	Chickasaw Trails WW/TP, Caycee, MS EXPEDITED REPORT DELIVERY (SURCHARGE)	VTP, Cayo	see, MS						
Jeff Retzke			DATED	DATE DUE (REQUIRED)	IIRED)								
ENERSOLV LAB NUMBER		SAMPLE DESCRIPTION	NOIL		SAMPLE TRANSFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME		GRAB COMP	SOUR				
0-0080/1	/ Outflow Sludge Holidng Tank	e Holidng	Tank	80	8/3/2017	11:35	×		×				
							+		+				
Comments:			1								SAME	SAMPLE TEMPERATURE	TURE
Coll	Collector to complete shaded areas, as applicable	shaded are	eas, as a	pplicab	<u>e</u>						RECE	RECEIVED @	
SAMPLER		E	FIELD INFORMATION	ORMA	NOIT		9	Qty		Type		Parameter	
Start Date	Hq /gm	TRC mg/l		DO I/gm		Temp deg C							
Start	Date	Date		Date		Date							
Stop Date	Time	Time		Time		Time							
Stop Time	Analyst	Analyst		Analyst		Analyst							
,	SM 4500H+B	SM 4500-CI D	O-CI D	SM 4	SM 4500-O G	SM 2550B	89						
	rüre) DATE	17 14:04		INQUISHE	RELINQUISHED BY: (SIGNATURE)		DATE	TIME		RELINQUISHED BY: (SIGNATURE)	IGNATURE)	DATE	TIME
RECEIVED BY (SUSNATURE)) ОАТВ	TIME	REC	RECEIVED BY:	BY: (SIGNATURE)		DATE	TIME		RECEIVED BY: (SIGNATURE)	TURE)	DATE	TIME
RECEIVED FOR LABORATORY USE BY:	RY USE BY (SIGNATURE)	- 9	DATE	7.2/	7 TIME	SAMPLE SAMPLE	SAMPLE STATUS:					3	
	(Indu	1	4		140		Accepted		□ Rejected	ected	☐ Accepte	Accepted with Exception	tion
					8	6					Frensolv	Francoly Form FI D-020-SOD A	NOD A rov



Tennessee Department of Environment and Conservation - Division of Water Polluction Control Exhibit B - Agronomic Application Rate Calculations Based on Nitrogen (N)

Revision 05/08/14

BACKGROUND INFORMATION/QUESTIONS		
	FILL IN BELC	W
	Chickasaw Trails	
WWTP NPDES PERMIT NUMBER		
SITE NAME	Nuckolls Farm	
COUNTY	Fayette	
E.A.C.		
SITE TRACKING NUMBER	N/A	
LABORATORY NAME	Waypoint Analytical, M	emphis
DATE OF ANALYSIS		4/5/17
SLUDGE/BIOSOLID ANALYSIS LABOR	ATORY RESULTS	
(Attached a copy of the laboratory analysis used for these)
(
TOTAL KJELDAHL NITROGEN (TKN)	32,600	mg/kg
AMMONIUM NITROGEN (NH₄-N)	·	<u> </u>
NITRATE + NITRITE NITROGEN (NO ₃ -N + NO ₂ -N)	,	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)	✓	
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

VOLATILIZATION FACTORS K_V		
(SELECT ONLY ONE)	YES	
1 - ARE BIOSOLIDS LIQUID AND SURFACE APPLIED?	✓	
2 - ARE BIOSOLIDS LIQUID AND INJECTED INTO SOIL?		
3 - ARE BIOSOLID DEWATERED AND APPLIED IN ANY MANNER?		
VOLATILIZATION FACTORS K _V =		0.5
MINERALIZATION RATE F _M		
WHAT BIOSOLID PROCESS GENERATE THE FRACTION (F_{M}) OF ORGANIC NITROGEN? (SELECT ONLY ONE)	SELECT PROCESS	
NONE (Unstabilized)		
ALKALINE STABILIZATION		
AEROBIC DIGESTION		
ANAEROBIC DIGESTION		
COMPOSING		
SELECTION CHOICE:	1 SELECTED	
MINERALIZATION RATE F _M =		0.3
AGRONOMIC LOADING RATE	8.7	tons/acre



3308 Bernice Avenue Russellville, AR 72802 PO Box 3036 • Russellville, AR 72811 Phone: 479-498-0500

CONSENT FOR BIOSOLIDS USE

Site/Farm Location: Nuck-1s Rd	Fayette County
Acreage: 12 o	Crop: Burmade
for use as a soil amendment/fertilizer on the above understand that Denali will coordinate biosolids dunless otherwise advised by me. I also certify that property or authorized by the holder to give consent to the co	
I understand that the following conditions apply to and/or my farm operator (leasee) will be responsible	my land following biosolids applications and that I for following these conditions where applicable:
with harvested parts that touch the biosolid shall not be harvested for 14 months after the c. Food crops (crops consumed by humans inclu with harvested parts below the surface of the application of biosolids when the biosolids incorporation into the soil, or 38 months when prior to incorporation. d. Food crops, feed crops, and fiber crops shall biosolids. e. Turf grown on land where biosolids is applied the biosolids when the harvested turf is ple exposure or a lawn, unless otherwise specified f. Public access to land with a high potential for	ading but not limited to fruits, vegetables and tobacco) s/soil mixture and are totally above the land surface application of biosolids. Iding but not limited to fruits, vegetables and tobacco) e land shall not be harvested for 20 months after the remain on the land surface \geq 4 months prior to en the biosolids remain on the land surface $<$ 4 months not be harvested for 30 days after the application of a shall not be harvested for one year after application of aced on either land with a high potential for public by the permitting authority. To public exposure shall be limited for one year after and with a low potential for public exposure shall be
permitting, inspecting, applying, or any biosolids related for proper identification at any time. The term of the	atory staff to access my property for the purpose of ted activity. I reserve the right to ask the above parties his Consent shall continue until written notification is the landowner and tenant retain complete control over
Owner Name (Please Print)	Operator/Leasee Name (Please Print)
17573 Algungwh Ct Address Lowellis A GT KG City, County, State, Zip	ار الا عام الا عام الا الا الا الا الا الا الا الا الا ا
	901-485-5511
Phone Number	Phone Number
Signature Date	Signature
יים ביים ביים ביים ביים ביים ביים ביים	Signature Date



3308 Bernice Avenue Russellville, AR 72802 PO Box 3036 - Russellville, AR 72811 Phone: 479-498-0500







Owner: Carl Nuckolls Operator: Jamerson Farms Address: Farm - Nuckolls Road

> 10

ortho_1-1_1n_s_tn047_2016_1

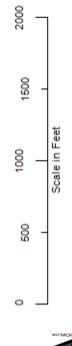
Property Line

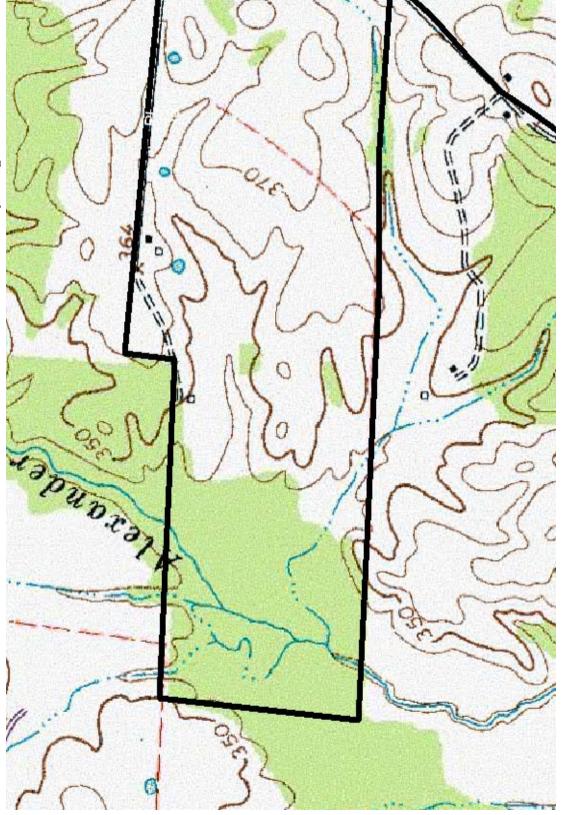
Phone: Jamerson - 901-485-5516



Russellville, AR 72802 PO Box 3036 - Russellville, AR 72811 Phone: 479-498-0500 3308 Bernice Avenue







Owner: Operator:	Carl Nuckolls Jamerson Farms
Address:	rarm - Nuckolis Road

₹ 6

ortho_1-1_1n_s_tn047_2016_1

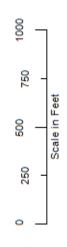
Property Line drg_s_tn047

Macon, IIN	Jamerson - 901-485-5516
	Phone:



3308 Bernice Avenue Russellville, AR 72802 PO Box 3036 - Russellville, AR 72811 Phone: 479-498-0500







Owner:	Carl Nuckolls
Operator:	Jamerson Farms
Address:	Farm - Nuckolls Road
	Macon, TN
i	077 107 707

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Creek or Ditch Property Line ortho_1-1_1n_s_tn047_2016_1

setbacks fields

> Jamerson - 901-485-5516 Phone: