

Project Addendum 1

(1 page, 4 attachments)

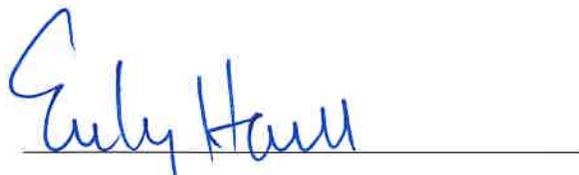
Project: FY22 Wastewater Sludge Removal and Disposal

Date: March 24, 2022

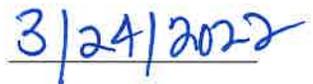
The listed corrections should be incorporated into the plans/specifications. All bidders are required to indicate on the outside of their proposal envelope the receipt of this information by giving the date and addenda number.

Description:

1. Add Appendix A to Table of Contents
2. Add to Appendix A, "Sewer Lagoon Schematic"
3. Add to Appendix A, "Sludge Testing Results"
4. Section 01650 Measurement and Payment Procedures, Part 2 Execution, 2.01
Measurement and Payment of Bid Items, Add to B. Mobilization "Measurement shall be made at the flow meter of wet material removed from the lagoon."



City of Lakeland
Emily Harrell, P.E., City Engineer



Date

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APPENDIX A

Sewer Lagoon Schematic	
Sludge Testing Results	

4/19/2018

City of Lakeland
Mr. Spencer Smalley
10001 US Hwy 70
Lakeland, TN, 38002

Ref: Analytical Testing
Lab Report Number: 18-102-0239
Client Project Description: Sludge Testing

Dear Mr. Spencer Smalley:
Waypoint Analytical, Inc. received sample(s) on 4/12/2018 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.

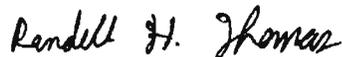
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established 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 as-received 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

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 #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	



04135
City of Lakeland
Mr. Spencer Smalley
10001 US Hwy 70
Lakeland , TN 38002

Project : Sludge Testing
Information :

Report Date : 4/19/2018

Report Number : **18-102-0239**

REPORT OF ANALYSIS

Received : 4/12/2018

Lab No : **98869**
Sample ID : **Land Applied Sludge**

Matrix: **Solids**
Sampled: **4/12/2018 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	96.9	%		1	04/17/18 10:31	CJH	2540G-2011
Ammonia Nitrogen	7190	mg/Kg - dry	806	1	04/19/18 12:30	ZBD	4500NH3C-2011
Nitrate (NO3-N)	266	mg/Kg - dry	32.3	1	04/16/18 20:41	CCR	9056
Nitrite (NO2-N)	225	mg/Kg - dry	32.3	1	04/16/18 20:41	CCR	9056
Nitrate+Nitrite-N	490	mg/Kg - dry	32.3	1	04/16/18 20:41	CCR	9056
pH	6.6	s.u.		1	04/19/18 08:20	RMW	9045D
Total Solids	3.13	%	0.100	1	04/12/18 16:18	CJR	2540G-2011
Total Volatile Solids	63.5	%	0.100	1	04/12/18 16:18	CJR	2540G-2011
Total Kjeldahl Nitrogen	88700	mg/Kg - dry	4000	1	04/13/18 15:47	CLP	4500NORGD-2011
Total Phosphorus	18000	mg/Kg - dry	161	1	04/14/18 13:39	BKN	6010C
Total Arsenic	<32.3	mg/Kg - dry	32.3	1	04/14/18 13:39	BKN	6010C
Total Cadmium	<3.23	mg/Kg - dry	3.23	1	04/14/18 13:39	BKN	6010C
Total Copper	652	mg/Kg - dry	8.06	1	04/14/18 13:39	BKN	6010C
Total Lead	15.3	mg/Kg - dry	9.68	1	04/14/18 13:39	BKN	6010C
Mercury (Total)	<0.429	mg/Kg - dry	0.429	1	04/13/18 12:34	KKM	7471A
Total Molybdenum	<8.06	mg/Kg - dry	8.06	1	04/14/18 13:39	BKN	6010C
Total Nickel	22.2	mg/Kg - dry	8.06	1	04/14/18 13:39	BKN	6010C
Total Potassium	3710	mg/Kg - dry	161	1	04/14/18 13:39	BKN	6010C
Total Selenium	<32.3	mg/Kg - dry	32.3	1	04/14/18 13:39	BKN	6010C
Total Zinc	855	mg/Kg - dry	16.1	1	04/14/18 13:39	BKN	6010C
Specific Oxygen Uptake Rate	NA			1			EPA-1683

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



2790 Whitten Road, Memphis, TN 38133
 Main 901.213.2400 ° Fax 901.213.2440
 www.waypointanalytical.com

04135
 City of Lakeland
 Mr. Spencer Smalley
 10001 US Hwy 70
 Lakeland , TN 38002

Project : Sludge Testing
 Information :

Report Date : 4/19/2018

Report Number : **18-102-0239**

REPORT OF ANALYSIS

Received : 4/12/2018

Lab No : **98874**
 Sample ID : **Sample #5**

Matrix: **Solids**
 Sampled: **4/12/2018 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	96.6	%		1	04/17/18 10:31	CJH	2540G-2011
Fecal Coliform MPN/g	6470	MPN/g - dry	88.2	1	04/12/18 14:43	SBA	9221E-2011

Lab No : **98875**
 Sample ID : **Sample #6**

Matrix: **Solids**
 Sampled: **4/12/2018 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	96.7	%		1	04/17/18 10:31	CJH	2540G-2011
Fecal Coliform MPN/g	8480	MPN/g - dry	90.9	1	04/12/18 14:43	SBA	9221E-2011

Lab No : **98876**
 Sample ID : **Sample #7**

Matrix: **Solids**
 Sampled: **4/12/2018 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
% Moisture	96.4	%		1	04/17/18 10:31	CJH	2540G-2011
Fecal Coliform MPN/g	3060	MPN/g - dry	83.3	1	04/12/18 14:43	SBA	9221E-2011

**Qualifiers/
 Definitions**

DF Dilution Factor

MQL Method Quantitation Limit

Kit ID:	0000095320
Initiated By:	Randy Thomas
Initiated Date:	4/10/2018
Project Comment	

CHAIN-OF-CUSTODY



18-102-0239
 04135
 04-12-2018
 12:18:13
 City of Lakeland
 Sludge Testing

Company Name City of Lakeland	Company Number 04135	Client Project Manager/Contact Mr. Spencer Smalley	Purchase Order number
Site Name Sludge Testing	Project Number	<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limits(s) Date Results Needed	Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other
LIMS Project ID Lakeland - Sludge Testing	Project Manager Phone #	Project Manager Email ssmalley@lakelandtn.org	Site/Facility ID #

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
4-12-18	9:20	Land Applied Sludge	Solids	G	1	Glass Clear - Quart	NONE	pH/Moist/TKN/PO4/K/As/Cd /Cu/Pb/Mo/Ni/Se/Zn/Hg/ NH3/NO3NO2/TS/TVS/SOUR
		Sample #1	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #2	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #3	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #4	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #5	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #6	Solids	G	1	Glass - 4oz	NONE	FC/Moisture
		Sample #7	Solids	G	1	Glass - 4oz	NONE	FC/Moisture

For Laboratory Use Only			Sampled by (Name - Print) Cade McMillan		Client Remarks/Comments			
Ice N/A	Custody Seals Y/N	Lab Comments	Relinquished by: (SIGNATURE) Cade McMillan	Date Time 1020 4-12-18	Received by: (SIGNATURE)	Date Time 1020 4-12-18		
Blank/Cooler Temp 72 1.02			Relinquished by: (SIGNATURE)	Date Time 1120 4-12-18	Received by: (SIGNATURE)	Date Time 1120 4-12-18		
			Relinquished by: (SIGNATURE)	Date Time 1120 4-12-18	Received by: (SIGNATURE)	Date Time 1120 4-12-18		
			Relinquished by: (SIGNATURE)	Date Time 1120 4-12-18	Received by: (SIGNATURE)	Date Time 1120 4-12-18		

1.03 Bid Item Descriptions

The cost of all material and labor required to complete this project as specified and shown on the drawings, but not specifically included as a pay item, shall be included in the bid price of its related bid item. No extra pay shall be granted for items that are reasonably foreseen as necessary for the proper installation of an item.

PART 2 Execution

2.01 Measurement and Payment of Bid Items

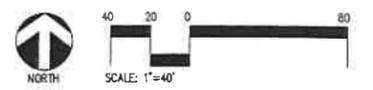
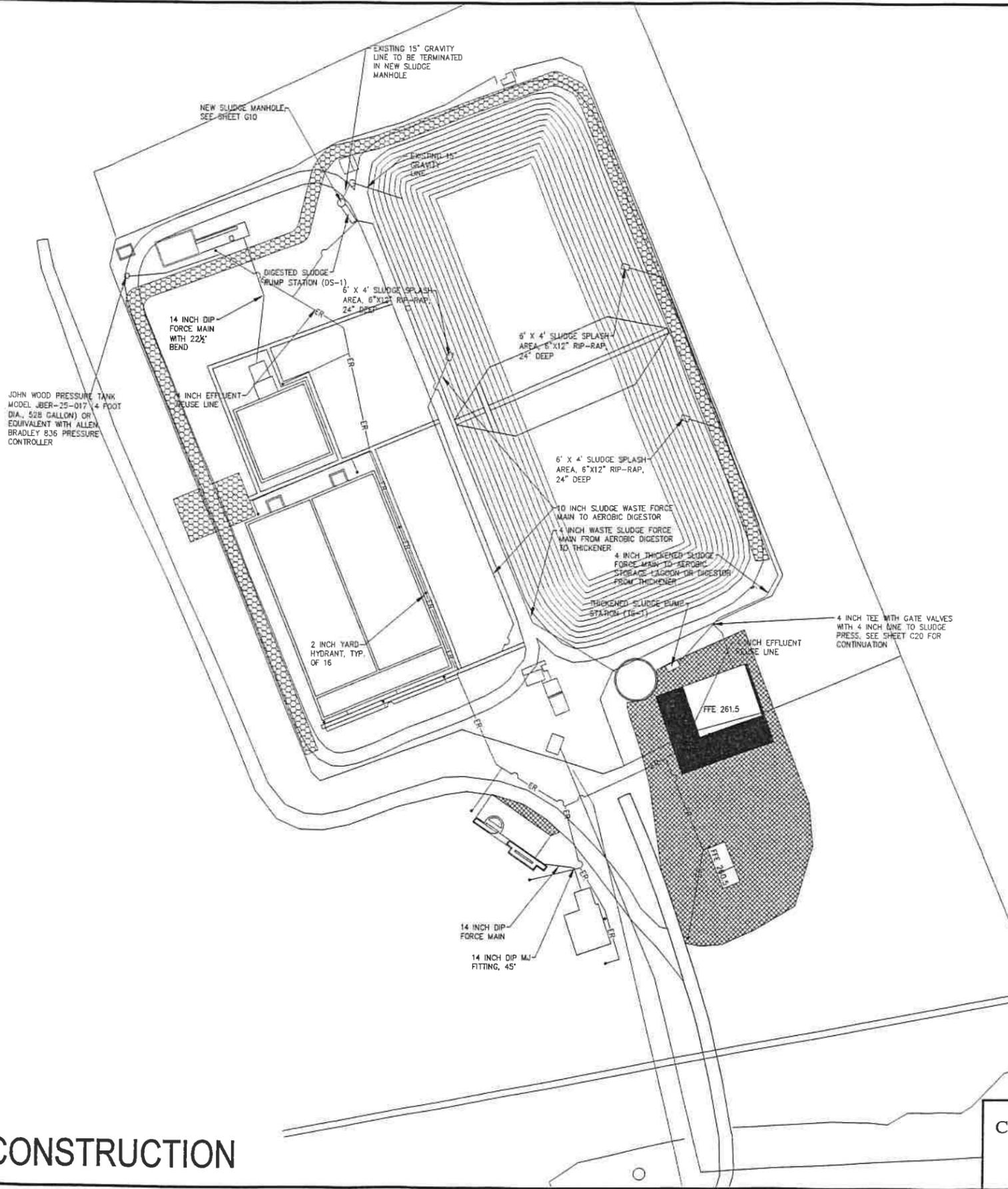
A. Removal and Disposal of Sludge from Sewer Lagoon

1. Measurement of this item shall be paid by gallons (GAL) of sludge removed and disposed from the Scotts Creek Sewer Lagoon. Measurement shall be made at the flow meter of wet material removed from the lagoon. This item shall include removal, hauling and disposal of sludge and all necessary equipment and materials required to perform work as well as any testing and local, state, and federal permits required. Payment shall be made by the contract unit price per gallon (GAL).

B. Mobilization

1. Measurement of this item shall be paid by lump sum (LS) for mobilization. This item shall include all costs for mobilization, including mobilization of equipment to the project site and property owner notifications in accordance with these specifications. Payment shall be by the contract unit price per Lump Sum (LS).

END OF SECTION



GENERAL NOTES:

1. SITE CONSTRUCTION INCLUDES MODIFICATIONS TO BOTH EASTERN AND WESTERN LAGOONS.
2. THE WASTEWATER TREATMENT PLANT SHALL REMAIN OPERATIONAL DURING ALL SITE CONSTRUCTION AND IMPROVEMENTS. OPERATIONAL ISSUES SUCH AS ROUTING FLOW FROM ONE LAGOON TO THE OTHER SHALL BE COORDINATED WITH THE ENGINEER.
3. THE CONSTRUCTION OF IMPROVEMENTS WITHIN THE FOOTPRINT OF THE EASTERN LAGOON SHALL BE COMPLETED BEFORE THE CONSTRUCTION OF IMPROVEMENTS WITHIN THE WESTERN LAGOON.

ISSUED FOR CONSTRUCTION

**JWS & ASSOCIATES
CONSULTING ENGINEERS**

10305 Latting Road Cordova, TN 38016
Phone 901.754.1239 Fax 901.754.8292
e-mail davidjws@bellsouth.net

REV.	DATE	DESCRIPTION	DR BY	APP BY
1	03/17	ISSUED FOR CONSTRUCTION	DMS	DMS
SCALE: 1 INCH = 40 FEET		PROJECT NO.: 600	DWS NAME:	
DATE: 10/14/2005		PROJECT: SCOTT'S CREEK WWTP		
DES BY:		SHEET TITLE: SITE PIPING PLAN REUSE WATER AND SLUDGE		
DR BY:		SHEET 1 OF 1		
CHK BY:		DRAWING NO. G6		
APP BY:				