COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of

Electronic Proposed Acquisition by Bluegrass)	
Water Utility Operating Company, LLC and)	
the Transfer of Ownership and Control of)	
Assets by: P.R. Wastewater Management, Inc.;)	No. 2019-00104
Marshall County Environmental Services LLC;)	No. 2019-00104
LH Treatment Company, LLC; Kingswood)	
Development, Inc.; Airview Utilities, LLC;)	
Brocklyn Utilities, LLC; Fox Run Utilities,)	
LLC; and, Lake Columbia Utilities, Inc.)	

Response to Commission Staff's Post-Hearing Request

Applicant Marshall County Environmental Services LLC herewith submits the response to Commission Staff's Post-Hearing Request.

A signed, notarized verification for this Request appears on the following page. The undersigned counsel is responsible for any objection noted for a particular response.

Respectfully submitted,

/s/ Kathryn A. Eckert

Katherine K. Yunker

kyunker@mcbrayerfirm.com

Kathryn A. Eckert

keckert@mcbrayerfirm.com

McBrayer PLLC

201 East Main Street; Suite 900

Lexington, KY 40507-1310

859-231-8780

fax: 859-231-1175

Attorneys for Applicants

VERIFICATION

On behalf of Applicant Marshall County Environmental Services LLC

Commonwealth of KENTUCKY)
County of Marshall)

I, William A. Artis, a member/owner of Marshall county Environmental Services LLC, being duly sworn, state that I prepared or supervised the preparation of the following response or part thereof for which I am identified as a witness. I state that the matters and things set forth in those responses are true and correct to the best of my knowledge, information and belief formed after reasonable injury.

William A. Artis

Subscribed, sworn to, and acknowledged this 23rd day of 42019, before me, a Notary Public in and before said Commonwealth and County.

BRANDY JOHNSON Notary Public Kentucky – State at Large My Commission Expires May 5, 2021

NOTARY PUBLIC

My Commission expires: May 5, 2021

Request

1. Provide the engineering study, and invoices for the study, that Marshall County Environmental had performed to investigate the feasibility of connecting with a regional sewer authority.

Response

Please see the attached 2018 study and invoice/statement from Rivercrest Engineering,

Inc. for the mapping and estimates work relating to the Great Oaks wastewater treatment system, performed on behalf of MCES.



building.		
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1 11	$IVI \setminus VV$	7 1 5 1 / 1 1
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To:	Allen	Artis
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Date: 7/15/2019

Subject:

Great Oaks Mapping & Estimates 2018 Study

We are forwarding the following items:

(X) Enclosed () Under Separate Cover

VVC are lor	waiting the following items. (2) Enclosed () onder separate cover
Quantity	Description
1	Great Oaks Existing WWTP Drawing
1	Great Oaks Existing WWTP Wall Thickness Drawing
1	Great Oaks WWTP Elimination - Lift Station & Force Main Improvements Planning Map
3	Estimates of Probable Cost w/ 20-year Present Worth Comparisons

These are transmitted as checked below:

()	Approved	()	For Your Approval
()	Approved as Noted	()	As Requested
()	Not Approved	(x)	For Your Use
()	Revise and Resubmit	(x)	For Your Files

Remarks:

Allen,

Please find the noted items included with this transmittal. Note - these items were prepared in 2018 and may not reflect the current conditions of the existing Great Oaks WWTP facility. Rivercrest understands that structural or other improvements may have been implemented, which would affect the improvements estimates.

Rivercrest Engineering, Inc.

Charles (Chad) D. McCann II, PE

GREAT OAKS WWTP ELIMINATION - LIFT STATION & FORCE MAIN IMPROVEMENTS

FOR MARSHALL COUNTY ENVIRONMENTAL SERVICES, LLC ESTIMATE OF PROBABLE COST - AUGUST, 2018

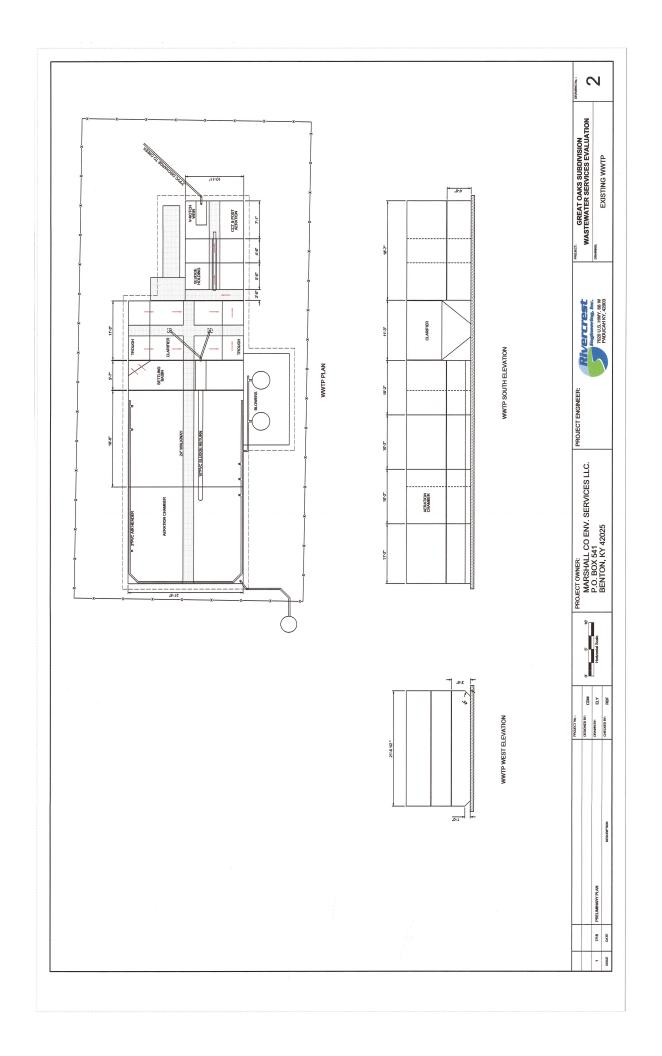
2 8" S 3 8" E 4 8" E	'STEEL ENCASEMENT (Bore)		QTY.	UN	IT PRICE	L.	CAPITAL COST	SERVICE LIFE		LVAG
3 8" E		L.F.	. 110	\$	250	\$	27,500	50	\$	16,50
4 8" C	SDR 35 PVC SEWER (Open Cut)	L.F.	100	\$	60	\$	6,000	50	\$	3,60
	DR 11 HDPE FORCE MAIN (Open Cut)	L.F.	10,950	8	27	\$	295,650	50	\$	177,39
5 4 ft	DR 11 HDPE FORCE MAIN (HDD)	. L.F.	750	s	60	\$	45,000	50	\$	27,00
	DIAMETER PRECAST MANHOLE (10-15' dp) w/ CASTING	EACH	2	\$	4,000	\$	8,000	50	\$	4,80
6 4.ft	DIAMETER PRECAST MANHOLE - ARV VAULT (5 dp) w/ CASTING	EACH	.2	\$	3,500	\$	7,000	50	\$	4,20
7 2 " A	AIR RELEASE VALVE ASSEMBLY	EACH	I	\$	1,500	\$	1,500	50	S	9(
8 LIF	T STATION 1 WET WELL & VALVE VAULT	EACH	1	\$	80,000	\$	80,000	50	\$	48,00
9 200	GPM DUPLEX PUMP & CONTROL SYSTEMS (LIFT STATION 1)	L.S.	1	\$	40,000	\$	40,000	20	\$	
10 ELE	ECTRICAL SYSTEM IMPROVEMENTS (LIFT STATION 1)	L.S.	1	\$	20,000	\$	20,000	20	\$	
11 LIF	T STATION 2 WET WELL & VALVE VAULT	EACH	1	\$	80,000	\$	80,000	50	\$	48,00
12 300	GPM DUPLEX PUMP & CONTROL SYSTEMS (LIFT STATION 2)	L.S.	1	\$	55,000	\$	55,000	20	\$	
13 ELE	ECTRICAL SYSTEM IMPROVEMENTS (LIFT STATION 2)	L.S.	1	\$	25,000	\$	25,000	20	\$	-
14 LIFT	T STATION & MISC. SITE PIPING	L.S.	2	\$	40,000	\$	80,000	. 50	\$	48,00
15 TIE	TO EXISTING MANHOLE	EACH	1	\$	1,500	\$	1,500	-	S	
16 DEC	COMMISSION & DEMOLITION OF EXISTING WWTP	L.S.	1	\$	35,000	\$	35,000		\$	
17 ASP	PHALT PAVING	TON	10	\$	250	\$	2,500	-	\$	
18 DEN	NSE GRADE AGGREGATE BACKFILL/ACCESS ROAD	TON	450	\$	25	\$	11,250		\$	
19 CON	NCRETE	S.Y.	70	\$	120	\$	8,400		\$	
		Subtotal Co	THE RESERVE OF THE PARTY OF THE			\$	829,300	11.00		
		Loan Admi Easement	nistration Acquisition (Assume 35 @ \$1		.00%)	\$	41,000 35,000			
		Engineerin	g Design		.20%)	S	76,300 15,000			
		Permitting	Survey & Electrical Permitting							
			n Engineering/Inspection		0.00%)	\$	7,500 82,900			
		Contingence Total Cost	ies	(1:	5,00%)	S	1,250,100	Salvage	5	378,39

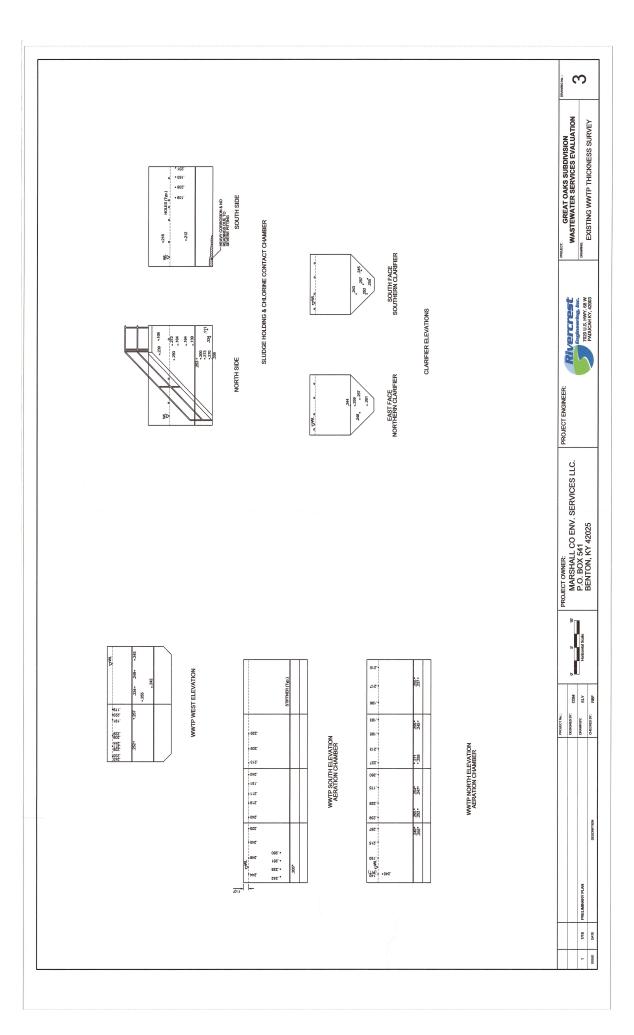
GREAT OAKS WWTP REPLACEMENT FOR MARSHALL COUNTY ENVIRONMENTAL SERVICES, LLC ESTIMATE OF PROPABILE COST AUGUST 2018

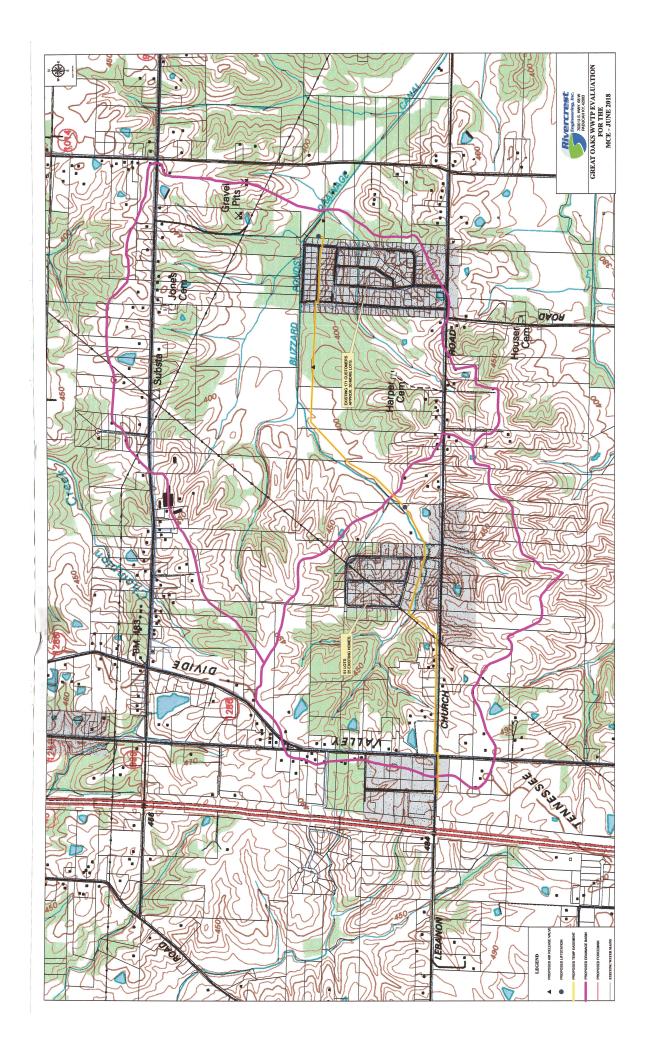
ITEM	DESCRIPTION	UNITS	QTY.	UN	IT PRICE	(COST	SERVICE LIFE		LVAG
1	8" SDR 35 PVC SEWER (Open Cut)	L.F.	20	\$	60	\$	1,200	50	\$	7:
2	4 ft DIAMETER PRECAST MANHOLE (5-10' dp) w/ CASTING	EACH	1	\$	3,500	\$	3,500	50	\$	2,1
3	INFLUENT LIFT STATION IMPROVEMENTS	L.S.	I	S	50,000	\$	50,000	20	\$	
4	ELECTRICAL SYSTEM IMPROVEMENTS	L.S.	1	\$	15,000	8	15,000	20	\$	-
5	PACKAGE EXTENDED AERATION WWTP (70,000 GPD Capacity)	L.S.	1	\$	695,250	\$	695,250	50/20	\$	208,57
6	WWTP FOUNDATION & 18-IN REINFORCED CONCRETE SLAB (80-FT x 30-FT)	L,S.	1	\$	58,332	\$	58,332	50	****	34,9
7	DECOMMISSIONING & DEMOLITION OF EXISTING WWTP	L.S.	1	\$	35,000		35,000		\$	
8	MISC, SITE PIPING	L.S.	2	\$	4,000		8,000	50	\$	4,80
9	MISC. SITE IMPROVEMENTS	L,S.	1	18	5,000	-	5,000	50	\$	3,00
10	DENSE GRADE AGGREGATE BACKFILL/ACCESS ROAD	TON	400	\$	25	\$	10,000	30	\$	
*.	50 Years Structural & 20 Years Mechanical			+-		-	10,000		\$	
		24				_			Ф	
		Subtotal Co	different de comme a made de compre aplitante de de la servicio de descuelar a variante de la compre aplitante de la compre de descuelar a variante de la compre del la compre de la compre de la compre de la compre de la compre			\$	881,282			
		Loan Admir	The second secon	(:	5,00%)	\$	44,000			
	Easement Acquisition (Assume N/A) Engineering Design (9.20%)					-				
						\$	81,100			
		Survey & El	ectrical			\$	7,000			
		Permitting	Contration and without the desired agreement agreement and the contration and the contrat			\$	2,500			
		Construction	Engineering/Inspection	(1	0.00%)	\$	88,100			
		Contingenci	es	(1	5.00%)	\$	165,600			
		Total Cost				5	1,269,582	Salvage	\$	254,1
100.00.00	NNEL COSTS (ESTIMATED 15 MANHOURS PER WEEK)									
RSO										
Opera	tion & Maintenance			\$	40,000					
Opera	ES AND SUPPLIES									
Opera FILIT Electr Chemi	tes and supplies icity @ \$0.11/KWh cal Addition			\$	17,000					
Opera FILIT Electr Chemi OUIPN	TES AND SUPPLIES icity @ \$0.11/KWh cal Addition TENT			\$	17,000					
Opera FILIT Electr Chemi OUIPN Misce	IES AND SUPPLIES icity @ \$0.11/KWh caldition IENT Illaneous			\$	17,000					
Opera FILIT Electr Chemi QUIPN Misce RVIC	IES AND SUPPLIES icity @ \$0.11/KWh cal Addition IENT Illaneous ES			\$ \$	17,000					
Opera FILIT Electr Chemi (UIPM Misce RVIC Sludge	IES AND SUPPLIES icity @ \$0.11/KWh caldition IENT Illaneous			\$ \$ \$	17,000 + 1,000 5,000					
Opera FILIT Electr Chemi (UIPA Misce RVIC Sludge Sampl	IES AND SUPPLIES icity @ \$0.11/KWh cal Addition IENT Illameous ES P Handling and Disposal			\$ \$	17,000 - 1,000 5,000 4,000					
Opera FILIT Electr Chemi QUIPM Misce RVIC Sludge Sampl	TES AND SUPPLIES Loity @ \$0.11/KWh all Addition IENT Illaneous ES Handling and Disposal ing and Reporting			\$ \$	17,000 + 1,000 5,000					
Opera FILIT Electr Chemic QUIPA Misce ERVIC Sludge Sampl NKING	IES AND SUPPLIES city @ \$0.11/KWh cal Addition IENT Illaneous ES ES E Handling and Disposal ing and Reporting G FUND REPLACEMENT (20 YEARS @ 5.0%)			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	17,000 1,000 5,000 4,000 17,000					
Opera FILIT Electr Chemi QUIPA Misce ERVIC Sludge Sampl NKING BTOT	IES AND SUPPLIES (city @ \$0.11/KWh cal Addition IENT Illaneous ES ES E Handling and Disposal ing and Reporting G FUND REPLACEMENT (20 YEARS @ 5.0%) "AL O,M&R T WORTH O,M&R (20 YEARS @ 5.0 %)			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	17,000 1,000 5,000 4,000 17,000 84,000					
Opera FILIT Electr Chemi QUIPN Misce ERVIC Sludge Sampl NKIN BTOT	TES AND SUPPLIES icity @ \$0.11/KWh cald Addition IENT Illaneous ES I Handling and Disposal ing and Reporting G FUND REPLACEMENT (20 YEARS @ 5.0%) AL O,M&R TWORTH O,M&R (20 YEARS @ 5.0 %) R PRESENT WORTH COST SUMMARY			\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	17,000 1,000 5,000 4,000 17,000 84,000 1,046,826					
Opera FILIT Electr Chemic QUIPN Misce ERVIC Sludge Sampl NKING BTOT RESEN	IES AND SUPPLIES (city @ \$0.11/KWh cal Addition IENT Illaneous ES ES E Handling and Disposal ing and Reporting G FUND REPLACEMENT (20 YEARS @ 5.0%) "AL O,M&R T WORTH O,M&R (20 YEARS @ 5.0 %)			\$ \$ \$ \$ \$ \$ \$ \$	17,000 1,000 5,000 4,000 17,000 84,000					

FOR MARSHALL COUNTY ENVIRONMENTAL SERVICES, LLC ESTIMATE OF PROBABLE COST - AUGUST, 2018

ITEM	DESCRIPTION	UNITS	QTY,	UNI	IT PRICE	(CAPITAL	SERVICE LIFE		LVAGE ALUE
1	8" SDR 35 PVC SEWER (Open Cut)	L,F.	20	\$	60	\$	1,200	50	\$	720
2	4 ft DIAMETER PRECAST MANHOLE (5-10' dp) w/ CASTING	EACH	1	\$	3,500	\$	3,500	50	\$	2,100
3	INFLUENT LIFT STATION IMPROVEMENTS	L.S.	1	\$	50,000	\$	50,000	20	\$	
4	ELECTRICAL & CONTROL SYSTEM IMPROVEMENTS	L.S.	1	\$	45,000	\$	45,000	20	s	
5	15 HP BLOWER REPLACEMENT	EACH	2	\$	8,500	\$	17,000	7	\$	
6	REINFORCE TANKS WALLS, BAFFLES, & WEIR SYSTEMS	L.S.	1	\$	60,000	\$	60,000	20	\$	
7	EPOXY PIT FILLING	SQ.IN.	5,000	\$	6	\$	30,000	20	\$	
8	TANK SEAM WELDING	L.F.	150	\$	60	\$	9,000	20	\$	
9	INTERIOR EPOXY COATING SYSTEM	S.F.	6,000	\$	11	\$	66,000	20	\$	
10	EXTERIOR EPOXY COATING SYSTEM	S.F.	7,500	\$	9	\$	67,500	20	\$	
11	UV DISINFECTION SYSTEM REPLACEMENT	L,S,	I	\$	21,500	\$	21,500	20	s	
12	WWTP HEADER & DROP AIR PIPING REPLACEMENT	L.S.	1	\$	35,000	\$	35,000	20	\$	
13	SLUDGE TRANSFER PUMP REPLACEMENT	EACH	2	\$	7,500	\$	15,000	7	\$	
14	EFFLUENT FLOW METER REPLACEMENT	EACH	1	\$	4,000	\$	4,000	7	\$	
15	FIBERGLAS GRATING-WALKWAY REPLACEMENT	L.S.	1	\$	16,000	\$	16,000	20	s	
16	PUMPER TRUCK / WAS'TE HAULING FOR 30 DAYS DURING CONSTRUCTION	LOAD	600	\$	400	\$	240,000		\$	
17	STAINLESS STEEL HARDWARE FOR EQUIPMENT MOUNTING	L.S.	1	\$	3,500	\$. 3,500	50	\$	2,100
18	MISC. SITE IMPROVEMENTS	L.S.	1 .	\$	5,000	\$	5,000		\$	
19	DENSE GRADE AGGREGATE BACKFILL/ACCESS ROAD	TON	400	\$	25	\$	10,000	50	\$	6,000
# .	50 Years Structural & 20 Years Mechanical								\$	
		Subtotal Co	ost			\$	699,200			
		Loan Admi	inistration	(5	.00%)	\$	35,000			
		Easement A	Acquisition (Assume N/A)			-				
Z/MS		Engineerin	g Design	(1	1,00%)	\$	76,900	10 mag 10 m		
	至1996年的新疆域的特别的特别。 1997年	Survey & E	Blectrical			\$	7,000			
		Permitting				\$	2,500			
		Construction	on Engineering/Inspection	(10	0.00%)	\$	69,900			
		Contingend Total Cost		(1:	5,00%)	\$	133,600 1,024,100			
Opera FIL(T) Electri Chemic				\$ \$	40,000 17,000		-3	Salvage		10,92
ERVIC Sludge	Handling and Disposal			\$	2,500 5,000					
	ing and Reporting G FUND REPLACEMENT (20 YEARS @ 5.0%)			S	4,000 10,000					
	AL O,M&R			\$	78,500					
	T WORTH O,M&R (20 YEARS @ 5.0 %)			\$	978,284					
	R PRESENT WORTH COST SUMMARY			ø.	1 012 100					
	I Cost Less Salvage Value R Cost (Present Worth)			\$	1,013,180 978,284					
	20-YEAR PRESENT WORTH			THE RESERVE OF THE PERSON NAMED IN	1,991,464					









Professional Services Invoice

Service Provider:

Rivercrest Engineering Incorporated

3519 State Route 440 Hickory, KY 42051

Phone (270) 519-7675

Client:

Marshall County Environmental Services

Attn: Mr. Allen Artis, Manager

P.O. Box 541 Benton, KY 42025 Invoice No.

Invoice Date:

July 15, 2019

REI Project No.

18006

Project Name:

Wastewater Treatment System

Great Oaks Subdivision

McCracken County, KY

Service Dates:

9/1/2018

through

7/15/2019

Invoice Class: (Hourly & Lump Sum) \$

12,840.00

y & comp sum y 22,000.00	Service Rate	Hrs this Period	Hrs to Date	Amount Subtotal
Principal Engineer	135	0	0	\$0.00
Sr Engineer / Project Manager	115	0	11	\$1,265.00
Project Engineer	100	0	0	\$0.00
Graduate Engineer / Designer	90	0	18.5	\$1,665.00
Construction Observer / Engineering Tech	75	0	10	\$750.00

Subtotal - Labor	T	0	39.5		\$3,680.00
Direct Expense - LS - Sub 180)	0%	100%	4	\$1,800.00
Amount Earned to Date	T				\$5,480.00
Less Amount Previously invoiced	-				\$5,480.00
Amount Due this Invoice					\$0.00

Service fees due for professional services rendered Sept 1, 2018 through July 15, 2019 =

\$0.00

Payment History:

Invoice No.	Invoice Date	Service Amt	Amount Paid	Date Received	Invoice Age	Cummulative AR Amount
1	July 12, 2018	\$2,840.00	\$1,250.00	10/26/2018		\$1,590.00
2	August 8, 2018	\$2,410.00	\$750.00	11/21/2018		\$3,250.00
3	September 4, 2018	\$230.00	\$300.00	1/23/2019		\$3,180.00
4	July 15, 2019	\$0.00	\$300.00	2/25/2019		\$2,880.00
			\$300.00	4/20/2019		\$2,580.00
			\$300.00	6/18/2019		\$2,280.00