

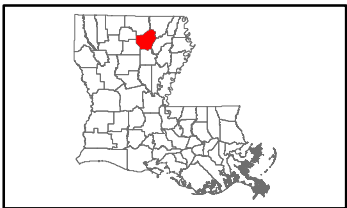
Exhibit K. Calhoun Technology Park - South Site Wastewater Infrastructure Upgrade Letter & Map



Calhoun Technology Park - South Site Wastewater Infrastructure Upgrade Letter & Map

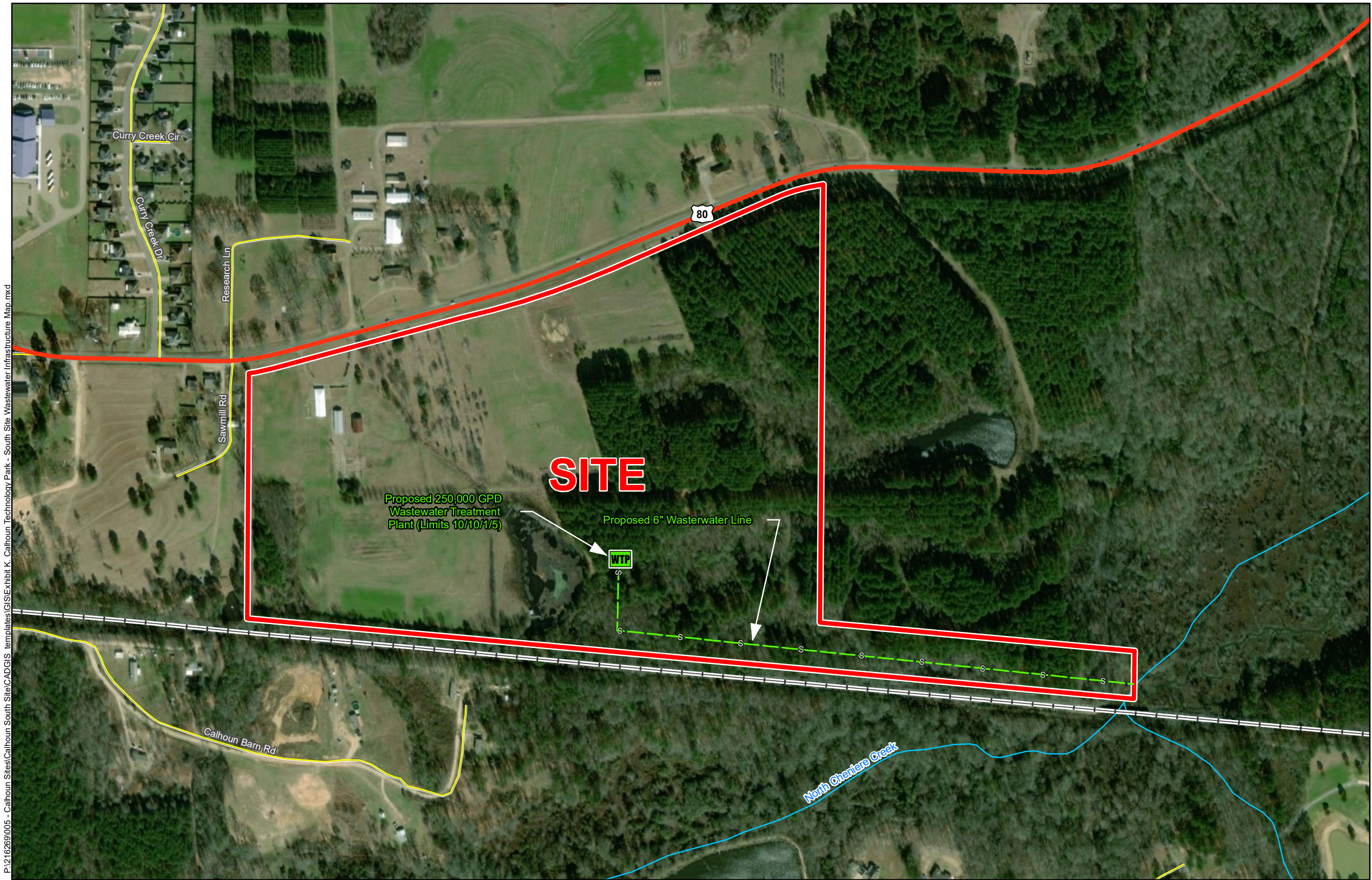
Calhoun Technology
Park - South Site
Ouachita Parish, LA

NLEP



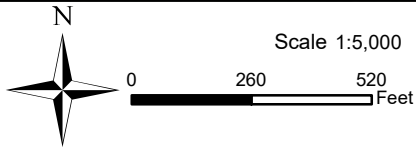
LEGEND

- Site Boundary
- Proposed 250,000 GPD Wastewater Treatment Plant
- Proposed 6" Wastewater Line
- Existing Roadway
 - US Highway
 - Local Roads
 - Railroad



P:\216269\005 - Calhoun Sites\Calhoun South Site\CAD\GIS templates\GIS\Exhibit K. Calhoun Technology Park - South Site Wastewater Infrastructure Map.mxd

- General Notes:
1. No attempt has been made by CSRS, Inc. to verify site boundary, title, actual legal ownership, deed restrictions, servitudes, easements, or other burdens on the property, other than that furnished by the client or his representative.
 2. Transportation data from 2013 TIGER datasets via U.S. Census Bureau at <ftp://ftp2.census.gov/geo/tiger/TIGER2013>.
 3. 2015 aerial imagery from USDA-APFO National Agricultural Inventory Project (NAIP) and may not reflect current ground conditions.



Date:	2/20/2019
Project Number:	216269
Drawn By:	DWC
Checked By:	TMK



Calhoun Technology Park - South Site Wastewater Infrastructure Upgrade Letter & Map



CSRS, INC.
6767 Perkins Road, Suite 200
Baton Rouge, Louisiana 70808

Phone: (225) 769-0546
Fax: (225) 767-0060

February 20, 2019

Ms. Liz Pierre
North Louisiana Economic Partnership
333 Texas Street, Suite 411
Shreveport, Louisiana 71101

Re. Calhoun Technology Park- South Site Wastewater System Cost Estimate
CSRS Job No. 216269

Dear Ms. Pierre:

According our research, the Calhoun Technology Park - South Site located along Highway 80 in Ouachita Parish, Louisiana has no existing wastewater infrastructure on site. In order to provide a wastewater treatment facility to treat 250,000 gallons per day (GPD), a wastewater treatment facility would need to be constructed on site.

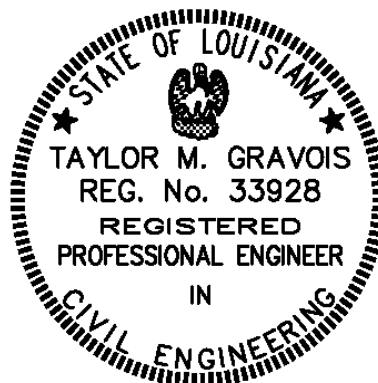
In March 2017 Lazenby & Associates created a sample layout and cost estimate detailing the cost to perform the engineering work needed for construction of the system as well and the cost of constructing the system itself the proposed on-site treatment plant would discharge through a 6-inch 2,424-foot pipe into to North Cheniere Creek. Expected discharge limits of BOD₅, TSS, NH₃, and Phosphorous are 10/15/1/5 mg/L, respectively. The construction of this new wastewater treatment facility plus the cost for an effluent pump station and discharge line to North Cheniere Creek is estimated to be \$1,275,000.

This cost estimates were prepared with the best information available at the time of certification. The actual costs can vary based on the availability of material, site conditions and labor availability. These plans can be executed within a reasonable timetable of 180 days based on preliminary engineering judgment. Thank you for the opportunity to assist you in this project. Should you have any questions or require additional information, feel free to contact me.

Sincerely,

CSRS, Inc.

Taylor M. Gravois, PE, PLS



Calhoun South Site
Wastewater Cost Estimate
Job No. 216269

Rough Order of Magnitude Cost Estimate						
Item No.	Description	Unit	Est. Quantity	Unit Price	Extension	
	250,000 GPD Advanced Secondary					
1	Wastewater Treatment Plant (10/15/1/5 Limits) with influent Pump Station ₄	L.S.	1	\$ 950,000.00	\$	950,000.00
2	6" C900 PVC Effluent Force Main	L.F.	2,424	\$ 37.50	\$	90,900.00
3	Ductile Iron Fittings	Tons	2	\$ 8,850.00	\$	17,700.00
Subtotal:					\$	1,058,600.00
20% Contingency₁:						x 1.20
Rough Order of Magnitude (ROM):						\$ 1,275,000.00

Footnotes:

- 1.) Does not include costs for engineering, permitting, or general project management.
- 2.) This cost estimate was prepared with the best information available at the time of certification.
- 3.) Actual costs can vary based on availability of material, site conditions, and labor.
- 4.) Wastewater Treatment Plant capacity based on LED required capacity of 250,000 gpd
- 5.) Cost estimate based off of layout and cost estimate provided by L&A, Inc. dated March 24, 2017

Estimate of Probable Project Costs
Calhoun Technology Park - South
Sewer Facility
Ouachita Parish Police Jury
L&A, Inc. Project No. 13E028.04

Engineer's Estimate - March 24, 2017

Engineering

Item No.	Item	Quantity	Unit	Unit Price	Extension
1	Preliminary Engineering	100%	Lump Sum	\$7,500.00	\$7,500.00
2	Alignment & Topographic Survey	100%	Lump Sum	\$65,000.00	\$65,000.00
3	Preliminary & Final Plans & Permitting	100%	Lump Sum	\$125,000.00	\$125,000.00
4	Bidding & Contract Documents	100%	Lump Sum	\$16,500.00	\$16,500.00
5	Inspection	100%	Lump Sum	\$80,000.00	\$80,000.00
6	Construction Layout	100%	Lump Sum	\$12,000.00	\$12,000.00
7	As-Built Plans	100%	Lump Sum	\$12,000.00	\$12,000.00

Estimated Engineering Costs: \$318,000.00

Construction

Item No.	Item	Quantity	Unit	Unit Price	Extension
1	PVC Pipe (12" Diameter Gravity) (Open Cut)	2,250	Lin. Ft.	\$75.00	\$168,750.00
2	Manhole (6'-8' Depth)	7	Each	\$5,000.00	\$35,000.00
3	Sequencing Batch Reactor Treatment Plant	100%	Lump Sum	\$2,000,000.00	\$2,000,000.00

Estimated Construction Costs: \$2,203,750.00

Total Estimated Project Cost: \$2,521,750.00