

**EXTENDED AERATION SEWAGE  
TREATMENT FACILITY**

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AIR SUPPLY	# of Blowers:	one		
	Capacity of Each (SCFM):	48		
SLUDGE RETURN	Method:	Air lift pump		
	Maximum Flow (GPM):	30		
	Maximum Percent (% of DAF):	100		
SLUDGE DRYING BEDS	Number of Beds:	not applicable		
	Area of Each Bed:			
	Total Area:			
	Area per Capita:			
	Gravel Layer Depth:			
	Sizes:			
	Sand Depth:			
	Under-drain Size:			
	Freeboard Above Sand:		Splash Plate? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Effluent To:			
SLUDGE LAGOONS	Number of Lagoons:	not applicable		
	Maximum Depth:			
	Free Board:			
	Volume of Each Lagoon:			
	Volume of Each Lagoon per Capita:			
	Pump:			
	Piping Material:		Size:	
Effluent To:				
OTHER SLUDGE DISPOSAL METHODS	System to be pumped by licensed hauler once DAF meets or exceeds 50%			
Explain:				

48 SCFM  $\Rightarrow$  288 SCFH

@ 9.91 #BOD  $\times$  2050  $\frac{\text{cuft}}{\text{\#BOD}}$   $\Rightarrow$  20315 SCF/TOTAL

20315 SCF/DAY

$\frac{20315 \text{ SCF/DAY}}{48 \text{ SCF/min}} = 423 \text{ min}$

**EXTENDED AERATION SEWAGE  
TREATMENT FACILITY**

1 of 3

Project:	Elks' Lodge # 2321			Water Well within 100'?
Contractor:	EJ Breaux Contractors LLC			
General Scope of Project:	Replace existing wastewater treatment plant			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Design Average Flow:	2000 GPD (MAX)			
BOD <sub>5</sub> Loading (in lbs of BOD <sub>5</sub> per day):	9.91 (MAX)			
Max. # of Lots or Population at Maximum Capacity:	174			
Initial # of Lots (or population):	135 person + 13 RV Lots			
Industrial Waste:	not applicable			
Design Effluent Limits:	BOD <sub>5</sub> : 20	TSS: 20	NH <sub>3</sub> N: 5	
RECEIVING STREAM: (provide complete path from outfall to first perennial non-intermittent waterway in the path of the projected outfall.)	Parsih drainage ditch			
	Bayou Liberty → Lake Ponchartraine			
Plant Manufacturer:	EJ Breaux Contractors LLC			
Plant Model #:	EJBC2.0C			
Materials of Construction:	Concrete			
AERATION TANK	Volume:	2000		
	Retention Time (24 Hour Min):	24		
	BOD <sub>5</sub> Loading: (lb per 1000 CF, 12.5 max.):	3.40	(4.95) MAX	
	Screen or Communutor?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
FINAL CLARIFIER	Surface Area:	22.75		
	Surface Loading: (gpd/ft <sup>2</sup> @ peak hourly flow)	90		
	Volume:	250	333 minimum	
	Scum Baffle:	Yes		
	Skimmer Through:	No		
Weir Loading: (gpd/ft @ peak hourly flow)	400			
NAME OF CERTIFIED OPERATOR:	G René Landry #57072			

## DESIGN SUMMARY PACKAGE COMMERCIAL SEWERAGE FACILITIES 3000 GPD and LESS

(Fill Out Applicable Sheets)

Project:	Elks Lodge # 2321		
Contractor:	Ej Breaux Contractors LLC		
Telephone:	985-252-6183		
Parish:	St. Tammany	Nearest Town:	Slidell
Population Served:	Elks' Lodge, RV Parking, Snack Bar & Reception Hall		
	New System? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Existing System? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Project to be Owned and Operated By: <small>(include name and address)</small>	Slidell Elks' Lodge #2321		
	34212 Elks' Road Slidell LA 70480		
	James Crippin, 985-641-1266		
	jimmycrippin@yahoo.com		
Proposed Project Will Tie-in to:	Sewer: parish drainage		

No

