

#### IV. COMPANY INFORMATION

<b>Application Submission Date: November 23, 2013</b>	
Company Name: Endicott Biofuels II, LLC and its Affiliates, including Sabine Biofuels II, LLC	
Mailing Address: 2 Northpoint Drive, Suite 950	
City: Houston	
State / Province: TX	Postal/Zip Code: 77060
Country (if outside of the U.S.): USA	
Contact Person: Christopher Frantz	
Title: Principal	
Phone: 281-598-2180	Fax: 281-598-2181
Mobile Phone: 713-725-1968	Email Address: chris@endicottbiofuels.com
Company Website URL: www.endicottbiofuels.com and www.sabinebiofuels.com	
U.S. EPA Company ID: 6001	

## V. FACILITY INFORMATION

Facility No	Facility Name	Facility Address	City	Zip Code	State or Province	Country
1	Sabine Biofuels II, LLC	2450 S. Gulfway Drive	Port Arthur	77641	TX	USA
2						
3						

## V. FACILITY INFORMATION (Cont'd)

Facility No	Contact Person Name	Title	Phone/Fax	Mobile Phone	Email	US/EPA Facility ID	Nameplate Capacity (MGY)
1	Christopher Frantz	Principal	281-598-2180	713-725-1968	chris@endicottbiofuels.com	81348	30
2							
3							

*Note: If you have more than three facilities, please attach extra sheets.*

## VI. CONSULTANT INFORMATION

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Consultant's Name: Art Samberg	
Position/Title: Consultant	
Consultant Company Address: 4819 Emperor Blvd., Suite 400	
City: Durham	
State / Province: NC	Postal/Zip Code: 27703
Phone: 919-462-6491	Fax: 919-462-6495
Mobile Phone: 336-707-5824	Email Address: art_samberg@golder.com
Consultant's Company Website URL: www.golder.com	
VI. CONSULTANT INFORMATION	

## VII. PATHWAY INFORMATION

VII. PATHWAY INFORMATION	
a. Enter pathway application type. Applicants are encouraged to discuss their pathway application types with ARB staff before completing this section. Please check one box only.	
<input type="checkbox"/> Method 2A: Pathway	<input checked="" type="checkbox"/> Method 2B: New Pathway
b. Please provide a brief description of the proposed pathways, emphasizing the important innovations and/or distinctive characteristics associated with the proposed pathway or sub-pathway. All proposed Method 2A or 2B pathways must be listed in part VIII.	
<p>Endicott's patented process creates high-purity biodiesel, with a methyl ester content &gt;99%, by assembling this fuel molecule from the free fatty acids (FFA) that make up all natural fats and oils, using reactive distillation rather than a 'batch' transesterification reaction. This allows Endicott, and its first facility Sabine, to process any natural fat or oil regardless of FFA content and convert it into a biodiesel with chemical purity of &gt;99% methyl esters.</p>	
VII. PATHWAY INFORMATION	

**VIII. METHOD 2 PATHWAY INFORMATION**

1. For Method 2A applications, enter all reference pathway information. The “reference pathway” is the existing fuel pathway to which the proposed new sub-pathway is most closely related. The carbon intensity (CI) of the proposed pathway described in this application must be lower by at least 5 gCO<sub>2</sub>e/MJ than the carbon intensity of the reference pathway. Show all pathway information exactly as it appears in the LCFS Lookup Table. If you have more than five reference or proposed pathways, please attach extra sheets.

**Reference Pathway(s):**

Fuel Type	Pathway ID	Brief Pathway Description	Carbon Intensity (CI) Values (gCO <sub>2</sub> e/MJ)		
			Direct Emissions	Land Use or Other Indirect Effect	Total CI Values

### VIII. METHOD 2 PATHWAY INFORMATION (Cont'd)

2. Enter the proposed fuel pathway information in the following table. The carbon intensity (CI) of the proposed pathway described in this Method 2A or 2B application must be lower by at least 5 gCO<sub>2</sub>e/MJ than the carbon intensity of the reference pathway identified in item 1 above.

**Proposed Pathway(s):**

Fuel Type	Brief Pathway Description	Carbon Intensity (CI) Values (gCO <sub>2</sub> e/MJ)		
		Direct Emissions	Land Use or Other Indirect Effect	Total CI Values
Biodiesel	Using high free fatty acid distillate waste feedstocks in the Endicott Process at Endicott's Sabine facility in Port Arthur, Texas	10.64	0.0	10.64

3. Compositional differences (if any) between the fuel produced by the new proposed pathway or sub-pathway and the reference pathway identified in item 1 above.

N/A

## IX. PATHWAY SUPPLEMENTAL QUESTIONS

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Annual volume of fuel produced using the proposed new pathway that would enter the California market (MGY): 10 (estimated)									
If the facility is not currently operating at full production capacity, when is full operational capacity expected? N/A									
Does the applicant expect this volume to be achieved by a single or by multiple facilities?									
<input checked="" type="checkbox"/> A Single Facility	<input type="checkbox"/> Multiple Facilities								
If the applicant expects this volume to be achieved by multiple facilities, would all facilities be owned by a single firm?									
<input type="checkbox"/> A Single Firm	<input type="checkbox"/> Multiple Firms								
Lower Heating Value (LHV) of the fuel to be produced from the new pathway (MJ/gal): 126.13 MJ/gal									
The range of production volumes over which the proposed pathway carbon intensity value is valid. The values reported below must be supported in the documentation accompanying this application.									
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="padding: 5px;"><i><b>Production Volume Range</b></i></th> <th style="padding: 5px;"><i><b>Fuel Volume (MGY)</b></i></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><i>Lower Bound</i></td> <td style="padding: 5px; text-align: center;">15</td> </tr> <tr> <td style="padding: 5px;"><i>Upper Bound</i></td> <td style="padding: 5px; text-align: center;">30</td> </tr> <tr> <td style="padding: 5px;"><i>Average Volume</i></td> <td style="padding: 5px; text-align: center;">30</td> </tr> </tbody> </table>		<i><b>Production Volume Range</b></i>	<i><b>Fuel Volume (MGY)</b></i>	<i>Lower Bound</i>	15	<i>Upper Bound</i>	30	<i>Average Volume</i>	30
<i><b>Production Volume Range</b></i>	<i><b>Fuel Volume (MGY)</b></i>								
<i>Lower Bound</i>	15								
<i>Upper Bound</i>	30								
<i>Average Volume</i>	30								
Please provide any information that may be helpful in determining the land use change impacts (if any) of the proposed pathway. Although it is ARB's responsibility to perform all land use change impact analyses, the applicant may provide any information that may be useful to the ARB in completing that analysis.									
Because Endicott is proposing this pathway application using fatty acid distillate wastes produced during edible oil refining, there is no indirect land use change associated with its use as biodiesel feedstock.									
IX. PATHWAY SUPPLEMENTAL QUESTIONS									

## X. APPLICANT SUBMITTAL CHECKLIST

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<p>Listed below are the documents and files that may be submitted in support of a method 2A-2B application. Check the box to the left of each document or file type included in your submittal. After each submittal category is a check box labeled "includes confidential business information (Title 17, CCR, § 95486(f)(3)(B)1). Check that box if the submittal category contains any information the applicant considered to be a trade secret. In the actual submittal, the specific information falling into the confidential business information category must be clearly marked. Additional information regarding the submission of trade secrets can be found in the Instructions above.</p>	
<input type="checkbox"/>	Pathway life cycle analysis report (required).  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	CA-GREET model results (please submit the CA-GREET spreadsheet) (required).  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	All operating permits issued by the local air pollution control authority (required).
<input type="checkbox"/>	One or more process flow diagrams covering the complete production process, including all inputs (feedstocks, process energy, etc.) and outputs (finished fuel, co-products, wastes, etc.) (required).  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	A comprehensive list of all stationary combustion-powered equipment associated with the production facility. List entries should name the equipment, briefly describe its function, identify the fuel or fuels used, and quantify fuel use on a per-gallon-of-finished-fuel-produced basis (required).  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	Equipment technical specifications.  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	Production process schematics, technical drawings flow diagrams, maps, or other graphical representations (other than/in addition to the required process flow diagram).  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	Engineering reports.  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	Technical papers or journal articles  <input type="checkbox"/> <i>Includes confidential business information</i>

### X. APPLICANT SUBMITTAL CHECKLIST (Cont'd)

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<input type="checkbox"/>	Emissions monitoring data or emissions modeling results.  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	Spreadsheets, data files, and similar files documenting the calculations behind the fuel life cycle analysis.  <input type="checkbox"/> <i>Includes confidential business information</i>
<input type="checkbox"/>	All operating permits issued by the local air pollution control authority (required).
<input type="checkbox"/>	Other: In the space below, describe any additional submittals. Rationales for documents submitted or omitted may also be provided.  <input type="checkbox"/> <i>Includes confidential business information</i>

### XI. APPLICANT DISCLOSURE

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<p>By my signature below, I confirm that, to the best of my knowledge, the fuel pathway CI for which I am applying accurately reflects the actual pathway CI for that fuel, and that I will only label fuel volumes with this CI when the actual CI is equal to or less than the approved LCFS pathway CI.</p> <p><b><i>Instructions:</i></b> Please complete the "Name," "Title," and "Date" fields below. Then print, sign, and scan only this page. The completed application form and separate signed "Applicant Disclosure" page can then be submitted electronically to ARB.</p>	
Name: Christopher J. Frantz	Title: Principal
Signature: 	Date: November 23, 2013