ATTACHMENT D: INJECTION WELL PLUGGING PLAN

Facility Name: FutureGen 2.0 Morgan County CO₂ Storage Site  
IL-137-6A-0002 (Well #2)

Facility Contacts:  
Kenneth Humphreys, Chief Executive Officer,  
FutureGen Industrial Alliance, Inc., Morgan County Office,  
73 Central Park Plaza East, Jacksonville, IL 62650, 217-243-8215

Location of Injection Well: Morgan County, IL; 26°16'N–9W; 39.80097°N and 90.07491°W

The FutureGen Alliance shall comply with the reporting and notification provisions in 40 CFR 146.92.

Immediately Prior to Well Plugging:  
Per the requirements at 40 CFR 146.92, The FutureGen Alliance must:
1. Flush each injection well with a buffer fluid;  
2. Determine the bottomhole reservoir pressure using methods and procedures identified in Attachment C – Testing and Monitoring Plan; and  

Information on Plugs:

<table>
<thead>
<tr>
<th>Cementing to Plug and Abandon Data</th>
<th>Plug #1</th>
<th>Plug #2</th>
<th>Plug #3</th>
<th>Plug #4</th>
<th>Plug #5</th>
<th>Plug #6</th>
<th>Plug #7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter of Boring in Which Plug Will Be Placed (in)</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Depth to Bottom of Tubing or Drill Pipe (MD) (ft)</td>
<td>6,004 or 7,004(a)</td>
<td>3,900</td>
<td>3,100</td>
<td>1,800</td>
<td>1,500</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Sacks of Cement to Be Used (each plug) (sks)</td>
<td>451 or 665(a)</td>
<td>149</td>
<td>0</td>
<td>53</td>
<td>0</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>Slurry Volume to Be Pumped (ft³)</td>
<td>505 or 745(a)</td>
<td>167</td>
<td>271</td>
<td>63</td>
<td>167</td>
<td>146</td>
<td></td>
</tr>
<tr>
<td>Slurry Weight (lb/ft³)</td>
<td>15.8</td>
<td>15.8</td>
<td>8.6</td>
<td>15.6</td>
<td>8.6</td>
<td>15.6</td>
<td></td>
</tr>
<tr>
<td>Top of Plug (MD) (ft)</td>
<td>3,900</td>
<td>3,100</td>
<td>1,800</td>
<td>1,500</td>
<td>700</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Bottom of Plug (MD) (ft)</td>
<td>6,004 or 7,004(a)</td>
<td>3,900</td>
<td>3,100</td>
<td>1,800</td>
<td>1,500</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Type of Cement or Other Material</td>
<td>EverCrete</td>
<td>EverCrete</td>
<td>6% Gel</td>
<td>Class A</td>
<td>6% Gel</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Method of Emplacement (e.g., balance method, retainer method, or two-plug method)</td>
<td>Balance Method</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) This value applies to injection wells completed with a 2,500 ft lateral.  
MD = measured depth.
Figure 1. Diagram of Injection Well after Plugging and Abandonment (geology and depths shown in this diagram are based on site-specific characterization data obtained from the FutureGen 2.0 Stratigraphic Well).
PLUGGING AND ABANDONMENT PLAN

Name and Address of Facility
Morgan County Class VI UCG Well #2 (casing well completion, 2,500 ft lateral) (address not yet available)

State: Illinois  County: Morgan  Permit Number: not yet issued

Surface Location Description
SE 1/4 of SW 1/4 of SE 1/4 of Section 26, Township 16N, Range 9W

Locate well in two directions from nearest lines of quarter section and drilling unit
Surface Location (ft from N/S) (ft from E/W)

TYPE OF AUTHORIZATION
Individual Permit
Rule
Number of Wells

WELL ACTIVITY

Casing and Tubing Record After Plugging

<table>
<thead>
<tr>
<th>SIZE</th>
<th>WT (LB/FT)</th>
<th>TO BE PUT IN WELL (FT)</th>
<th>TO BE LEFT IN WELL (FT)</th>
<th>HOLE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>1.0</td>
<td>1.57</td>
<td>1.54</td>
<td>1.0</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4.0</td>
<td>57.9</td>
<td>57.9</td>
<td>4.0</td>
</tr>
<tr>
<td>10 3/4&quot;</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
<td>10.0</td>
</tr>
</tbody>
</table>

Cementing to Plug and Abandon Data:

Site of Hole or Pipe in which Plug Will Be Placed (inches): 72 72 72 72 72 72 72
Depth to Bottom of Tubing or Drill Pipe (ft): 7.004 7.004 7.004 7.004 7.004 7.004 7.004
Sacks of Cement to Be Used (each plug): 665 665 665 665 665 665 665
Barrels of Cement to Be Pumped (cu. ft): 745 745 745 745 745 745 745
Starry Wt. (Lb./Gal.): 15.62 15.62 15.62 15.62 15.62 15.62 15.62
Type Cement or Other Material (Class III): Cement A  Cement A  Cement A  Cement A  Cement A  Cement A  Cement A

List All Open Hole and/or Perforated Intervals and Intervals Where Casing Will Be Varied (if any):
From | To
--- | ---

Estimated Cost to Plug Wells
Plug #1: Set through a cement retainer set at 3,900 ft M.D. $60,000.00

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of these individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. [Ref. 40 CFR 144.22]

Name and Official Title (Please type or print):
Kenneth K. Humphreys, Chief Executive Officer

Signature: [Signature]
Date Signed: 03/01/2014

EPA Form 7520-14 (Rev. 12-11)