Solar Summit
2022
Colleen Hollinger

Natural Resource Services
Solar Site Vegetation Case Study

Every County in MN has Different Requirements

Partner with Experienced Teams/Subcontractors

Share Information Between Teams
Case Study: Site Screening

- Review Permitting Specs
- Confirm Soil Conditions
Case Study: Site Screening

- Review Permitting Specs
- Confirm Soil Conditions

- Request Recommendations from Professionals

- Increased Diversity = Increased Survival, Decreased Future Problems
Case Study- Site Screening

Initial plan

Plan Approved
Case Study - Site Screening

Review Permitting Specs

<table>
<thead>
<tr>
<th>Plant Type</th>
<th>Species</th>
<th>#</th>
<th>Height</th>
<th>Growth Habit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrowwood Viburnum 'Northern Burgundy'</td>
<td><em>Viburnum dentatum</em></td>
<td>28</td>
<td>4'</td>
<td>container</td>
</tr>
<tr>
<td>Highbush Cranberry Viburnum</td>
<td><em>Viburnum trilobum</em></td>
<td>18</td>
<td>2-2.5'</td>
<td>container</td>
</tr>
</tbody>
</table>
Case Study - Site Screening

- Review Permitting Specs
- Confirm Site Conditions
Case Study-Site Screening

Review Permitting Specs
Confirm Site Conditions

Request Recommendations from Professionals

“Sandy, moist but well-draining soil conditions are key to a healthy balsam fir tree.” ~ USFS.
Case Study - Screening

- Review Permitting Specs
- Confirm Site Conditions

Request Recommendations from Professionals
Case Study - Vegetation

Review Permitting Specs

Increase Diversity

Match Species to Site Conditions and Location
Case Study - Vegetation
Case Study - Vegetation
Case Study - Vegetation

MN Dept of Ag Grant with Cannon Valley Graziers

Study:

Ideal Grazing Mixes on Solar
Case Study - Vegetation

MN Dept of Ag Grant with Cannon Valley Graziers & NRS

Study: Grazing Seed Mixes on Solar

In Development:
“Wings & Wool Seed Mixes” for Midwest Solar
Case Study - Vegetation

MN Dept of Ag Grant: Cannon Valley Graziers & NRS

• Good Sharing of Data
• Site Suitability
• Identifying Best Sites
Case Study - Vegetation

54 Million Acres of Land in MN
25 Million Acres of It Is In Ag
3.25 Million of Ag Acres in Grazing

Original MN Native Prairie 18 Million Acres
< 1% Remaining = 180,000 Acres
Case Study - Vegetation

Native Prairie <1% Remaining = 180,000 Acres

Native Habitat IS an Excellent Use
Thank You BWSR, Great Plans Institute & Sponsors