

**OE2 North LLC**  
**Bill Sanderson Gas Plant PU-20-082**  
**Response to ND PSC Staff's February 26 and 27, 2020 Information Request**

<i>Item</i>	<i>Request for Information</i>	<i>Response</i>	<i>Attachment</i>
<b>1</b>	Provide all GIS layers for all maps in Appendix B and the Figure 1 map in the Natural Resources Report.	GIS layers for all maps in Appendix B and Figure 1 map in the Natural Resource Report have been submitted on a thumb drive via Fed Ex for delivery March 4, 2020.	No
<b>2</b>	Page one of the application indicates that the "Project Study Area is a 0.5-mile buffer around the Project Site that encompasses Sections 26, 34, and 35, Township 154 North, Range 104 West in North Dakota". Is Section 27 Township 154 North, Range 104 West also included in the Project Study Area?	Section 27 Township 154 North, Range 104 West is also included in the Project Study Area.	No
<b>3</b>	When does OE2 intend to complete a Class III cultural survey? Will OE2 file the survey results with the Commission once complete?	OE2 will complete a Class III cultural survey on March 5-6, 2020. The survey will be conducted in accordance with the <i>Subsurface Testing Plan for the Proposed Gas Plant OE2 North LLC, Bill Sanderson Gas Processing Plant Project</i> , submitted to the State Historical Society of North Dakota (SHSND) on February 28, 2020. The Subsurface Testing Plan is included as an attachment to this response. OE2 will file the survey results with the Commission once complete.	Yes
<b>4</b>	File with the Commission any inventories that OE2 has conducted for trees, saplings, and shrubs and noxious weeds. If the inventories have not been completed, explain why, and provide the anticipated completion date(s). Will OE2 file the results of the inventories with the Commission once complete?	OE2 will complete a complete inventory of trees, saplings, shrubs, and noxious weeds on March 5-6, 2020. OE2 will file the survey results, which will supplement the previous survey results included in Appendix C of the original Application, with the Commission once complete.	No

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<b>5</b>	<p>Sampling Unit 9 and 13 of Table 3 to the Natural Resources Report indicates that Grouse Mountain Environmental Consultants were unable to determine if the sample unit locations indicated the presence of wetlands. Page 8 of The Natural Resources Report reads "a complete inventory of vegetation and analysis of hydric soils and hydrology indicators during the growing season may verify that these areas are not wetlands". Is OE2 committed to conducting a complete inventory? If yes, when will these surveys take place, and will OE2 file the results of the inventory and analyses with the Commission once complete?</p>	<p>OE2 will complete a complete inventory of vegetation on March 5-6, 2020. OE2 will file the survey results with the Commission once complete.</p> <p>If wetlands are determined to be present in the Project Area, OE2 will avoid impacts to these wetlands through project design or best management practices.</p>	No
<b>6</b>	<p>Section 4.2 on page 10 of the Natural Resources Report recommends that OE2 search for raptor nesting activity during January 15 through September 15, (i.e., during raptor breeding season), and survey for ground-nesting passerine birds within the proposed construction footprint during April 1 through April 15. Will OE2 follow these recommendations? If raptor nests or ground-nesting passerine birds are located during such surveys, what is OE2's plan to mitigate any adverse effects resulting from construction of the facility on the habitats and species?</p>	<p>OE2 will conduct preconstruction raptor and ground-nesting passerine bird surveys. If raptor nests or ground-nesting passerine birds are identified in the Project Area during the surveys, OE2 will implement mitigation strategies to minimize potential impacts.</p>	No
<b>7</b>	<p>Provide a table listing all field surveys that have been conducted and provide the anticipated completion dates for any that remain incomplete. Include any planned field surveys in the table.</p>	<p>A table listed completed and planned desktop and field surveys is included as an attachment to this response.</p>	Yes
<b>8</b>	<p>Provide a table showing the status of the issuance of each required permit, and the timeline to obtain each.</p>	<p>A Permit Matrix is included as an attachment to this response.</p>	Yes

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<b>9</b>	File with the Commission any wetland delineation report(s).	The <i>Bill Sanderson Gas Processing Plant Project Wildlife and Waters of the US Field Assessment and Offsite Assessment Report</i> was included as Appendix C to the PSC Application. OE2 will complete a wetland delineation on March 5-6, 2020. OE2 will file the wetland delineation report with the Commission once complete.	No
<b>10</b>	Address whether any Exclusion Areas listed in NDAC Section 69-06-08-01(1)(e) are located within the Project Site or Study Area.	There are no Exclusion Areas within the Project Site or Study Area that are listed in NDAC Section 69-06-08-01(1)(e): <i>Areas where animal or plant species that are unique or rare to this state would be irreversibly damaged.</i>	No
<b>11</b>	What is the Parcel Boundary on the Class I Culture Resource Desktop Analysis map? Was a Class I desktop analysis conducted on this area?	The Class I desktop analysis was conducted for the 1-mile indirect APE around the Parcel Boundary, which was the proposed location of the Plant (which includes a little more than the actual Plant footprint).	No
<b>12</b>	Are any hardwood draws or enrolled woodlands in the ND Game and Fish Department's Habitat Plot Program located within the Project Site or Study Area? If yes, update the application's "Table 1 - Exclusion Areas" to reflect their presence and briefly discuss.	On behalf of OE2, Kleinfelder spoke with the ND Game and Fish Department who confirmed that there are no enrolled woodlands or hardwood draws in the ND Game and Fish Department's Habitat Plot Program within the Study Area for the Project.	No



February 28, 2020

Andrew Clark  
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North Dakota Heritage Center  
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**SUBJECT: Subsurface Testing Plan for the Proposed Gas Plant OE2 North LLC, Bill Sanderson Gas Processing Plant Project**

Dear Andrew;

Below is the proposed evaluative subsurface testing plan GMEC will conduct within or adjacent to site boundaries for the OE2 Bill Sanderson Gas Plant. This plan is based on anticipated field conditions such as limited surface visibility and the potential for subsurface deposits to occur in certain soil depositions (e.g. dense vegetation or the presence of alluvial or eolian deposits). Typical strategies used for subsurface testing include shovel/surface scrapes, shovel testing, auger probes, or even mechanical trenching with a backhoe. Surface scrapes are appropriate in areas where a landform contains poor deposition such as rocky, well exposed or deflated surfaces and scraping can better determine or confirm shallow deposits. Surface scrapes are also useful in areas with dense vegetation or thick forest duff cover. Shovel test pits are square or round excavations that generally measure up to 50 centimeters in width and bottom depths are dependent on the maximum depth to a restrictive feature. In both circumstances, the excavated spoils are screened through ¼ inch mesh wire for general site testing, and 1/8 inch for actual or suspected human remains.

Shovel testing or auger probing will not be conducted in areas with adequate surface visibility or in areas with shallow deposition based on these surfaces have limited potential for subsurface archaeological materials. Shovel testing will occur in both upland and lowland areas. Specifically, shovel tests will focus on upper terraces above drainages and in areas with low surface visibility in addition to areas with suspected deeper deposition. A maximum of 10 shovel tests may be excavated in upland landscapes, with a minimum of 5 pending on ground visibility at the time of the Class III survey. A Munsell soil chart and the NRCS Field Book for Describing and Sampling Soils will be used to determine soil horizons and typical constituents in each shovel test. Each shovel test or probe will be photographed, profiled, and mapped using a handheld GPS unit that meets the ND accuracy standards.



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Table 1. Soil Descriptions (NRCS 2019<sup>1</sup>)

Map Unit Symbol / Soil Series	Soil Unit Name	Landform	Typical Profile (inches)	Depth to Restrictive Feature (inches)	Parent Material
2015 – (70) Williams-Bowbells loams, 3 to 6 percent slopes	Williams	Rises	Ap – 0 to 6: loam Bt1 – 6 to 10: clay loam Bt2 – 10 to 15: clay loam Btk – 15 to 24: clay loam Bk – 24 to 36: clay loam C – 36 to 60: clay loam	More than 80 inches	Fine-loamy till
	Bowbells	Rises	Ap – 0 to 6: loam Bt1 – 6 to 14: clay loam Bt2 – 14 to 23: clay loam Bk – 23 to 36: clay loam C – 36 to 60: clay loam	More than 80 inches	Fine-loamy till
2032 – Vida-Zahill Loams, 2 to 8 percent slopes	Vida	Moraines	Ap – 0 to 5: loam Bt – 5 to 9: clay loam Bk – 9 to 30: clay loam Bck – 30 to 55: loam C – 55 to 79: loam	More than 80 inches	Fine-loamy till
	Zahill	Moraines	Ap – 0 to 5: loam Bk – 5 to 31: loam Bck – 31 to 51: loam C – 51 to 79: loam	More than 80 inches	Fine-loamy till
2081 – Zahill-Vida loams, 4 to 15 percent slopes	Zahill	Moraines	0 to 5: loam Bk – 5 to 31: loam Bck – 31 to 51: loam C – 51 to 79: loam	More than 80 inches	Fine-loamy till
	Vida	Moraines	Ap – 0 to 5: loam Bt – 5 to 9: clay loam Bk – 9 to 30: clay loam Bck – 30 to 55: loam C – 55 to 79: loam	More than 80 inches	Fine-loamy till
2176 – Zahill loam, 15 to 60 percent slopes	Zahill	Hillslopes	A – 0 to 5: loam Bk – 5 to 31: loam Bck – 31 to 51: loam C – 51 to 79: loam	More than 80 inches	Fine-loamy till
2340 – Arnegard-Shambo loams, 2 to 6 percent slopes	Arnegard	Alluvial fans	Ap – 0 to 13: loam Bw – 13 to 36: loam Bk – 36 to 60: loam	More than 80 inches	Loamy alluvium derived from sedimentary rock
	Shambo	Alluvial fans, stream terraces	Ap – 0 to 9: loam Bw1 – 9 to 13: loam Bw2 – 13 to 29: loam Bk – 29 to 48: loam C – 48 to 60: loam	More than 80 inches	Fine-loamy alluvium derived from sedimentary rock

<sup>1</sup> Natural Resources Conservation Services (NRCS)2019 Web Soil Survey. Map Unit Description Area of Interest for T154N-R104W, Sections 27, 34, and 35. Electronic document, <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>, Retrieved February 28, 2020.



**OE2 North Bill Sanderson Gas Processing Plant  
Desktop Analyses and Field Survey Summary**

<b>Desktop Analyses</b>	<b>Date Conducted</b>
Wildlife and Waters of the US	01/2020
Class I File Search (cultural resources)	1/27/2020
<b>Field Survey</b>	<b>Date Conducted or Planned</b>
Wildlife and Waters of the US Field Assessment	1/29/2020
Class III cultural resources survey	3/5/2020 and 3/6/2020
Inventory of trees, saplings, shrubs, and noxious weeds	3/5/2020 and 3/6/2020
Inventory of vegetation and wetland delineation	3/5/2020 and 3/6/2020
Preconstruction raptor and ground-nesting passerine bird surveys	Prior to construction

**OE2 North Bill Sanderson Gas Processing Plant  
Permit Matrix**

<b>Permit</b>	<b>Anticipated Issuance</b>
NDDEQ Stormwater Notice of Intent	3/4/2020 <sup>1</sup>
Williams County Stormwater Permit	3/10/2020
Williams County Conditional Use Permit	4/7/2020
NDDEQ Air Permit	5/6/2020
Williams County Septic and Building Permits	6/10/2020

1 - Anticipated submittal