



To: OER WA Solar 1, LLC
From: Tetra Tech, Inc.
Subject: Goose Prairie Solar Project – Response to EFSEC Data Request SEP-16
Date: April 19, 2021

The Washington Energy Facility Site Evaluation Council (EFSEC) provided the following data request pertaining to the acoustic assessment completed and submitted for the Goose Prairie Solar Project Site Certificate Application:

“Noise impacts from construction were calculated at varying distances from the equipment, but with no calculated impacts at receptors.”

Please find the below revised Table 6 from Goose Prairie Solar Project Acoustic Assessment, which has been updated to better reflect planned Project construction activities and equipment. In addition, revised Table 6 includes calculated noise impacts at all nearby noise sensitive receptors by construction phase.

As indicated in the Acoustic Assessment, “Facility construction would generally occur during the day, Monday through Friday. Furthermore, all reasonable efforts would be made to minimize the impact of noise resulting from construction activities including implementation of standard noise reduction measures. Due to the infrequent nature of loud construction activities at the site, the limited hours of construction and the implementation of noise mitigation measures, the temporary increase in noise due to construction is considered to be a less than significant impact.” In addition, a number of noise sensitive receptors are located across Washington State Route 24 (SR-24) from the Facility Area. Noise produced by roadway traffic would affect ambient sound levels at those receptors and aid in masking noise generated by Facility construction.

Table 6. Projected Construction Noise Levels by Phase (Revised April 19, 2021)

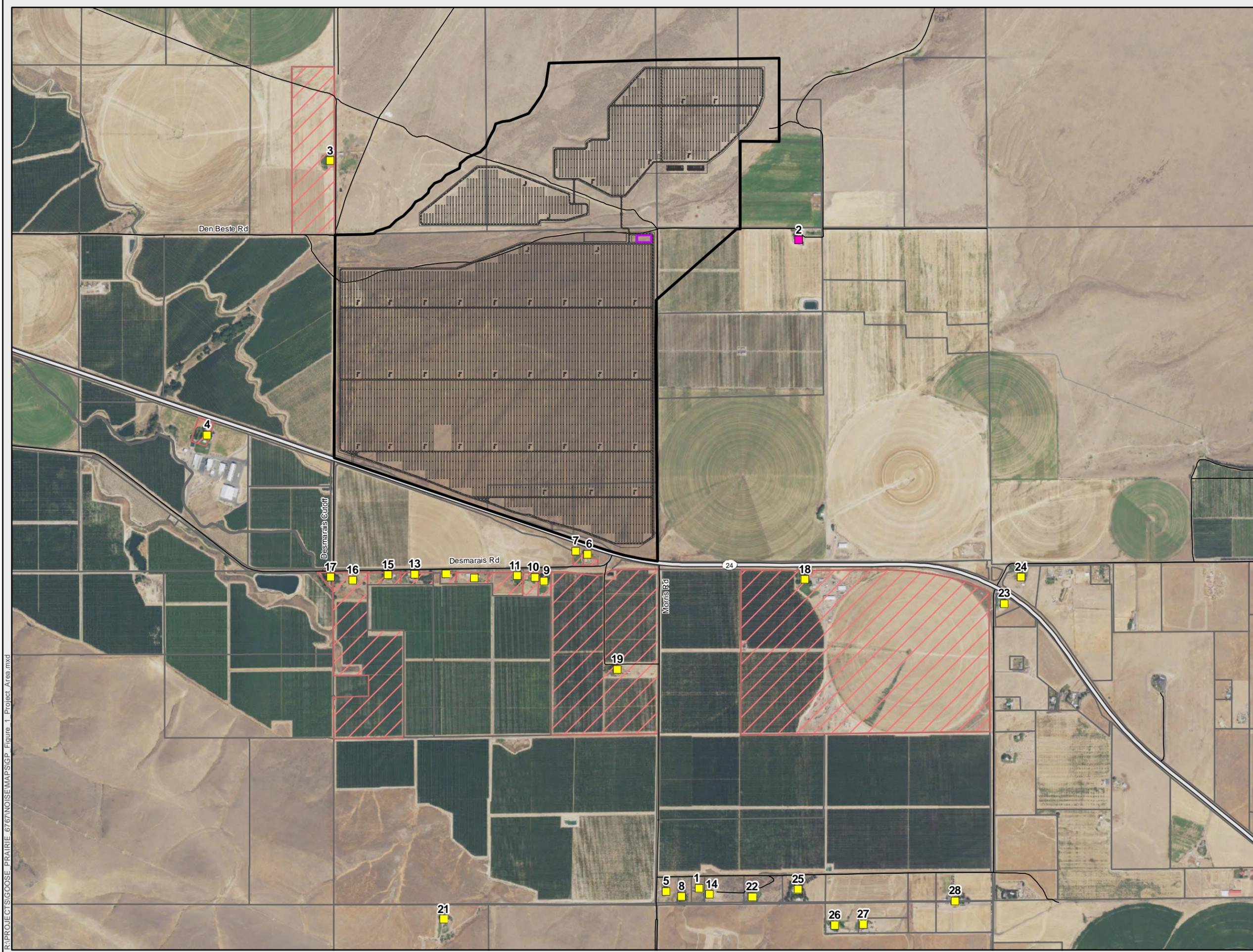
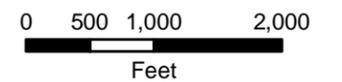
Phase No.	Construction Phase	Construction Equipment	Usage Factor %	Maximum (L _{max}) Equipment Noise Level at 50 ft	Composite L _{eq} Noise Level																											
					NSR ID 1	NSR ID 2	NSR ID 3	NSR ID 4	NSR ID 5	NSR ID 6	NSR ID 7	NSR ID 8	NSR ID 9	NSR ID 10	NSR ID 11	NSR ID 12	NSR ID 13	NSR ID 14	NSR ID 15	NSR ID 16	NSR ID 17	NSR ID 18	NSR ID 19	NSR ID 20	NSR ID 21	NSR ID 22	NSR ID 23	NSR ID 24	NSR ID 25	NSR ID 26	NSR ID 27	NSR ID 28
					5214 ft	938 ft	1176 ft	2007 ft	5219 ft	157 ft	167 ft	5313 ft	776 ft	769 ft	833 ft	1170 ft	1330 ft	5330 ft	1475 ft	1731 ft	1801 ft	2351 ft	1789 ft	1083 ft	6349 ft	5513 ft	5534 ft	5764 ft	5644 ft	6402 ft	6600 ft	7143 ft
1	Site Preparation and Grading	(2) Graders (174 hp) (1) Rubber Tired Loaders (164 hp) (1) Scrapers (313 hp) (2) Water Trucks (189 hp) (2) Generator Sets (2) Skid Steer Loaders	57 59 72 50 74 40	91	37	57	53	48	37	78	77	37	59	59	59	55	53	37	52	50	50	47	50	55	35	37	37	36	36	35	35	34
2	Trenching and Road Construction	(5) Excavators (168 hp) (2) Graders (174 hp) (2) Water Trucks (189 hp) (1) Trencher (63 hp) (2) Rubber Tired Loaders (164 hp) (2) Generator Sets (2) Skid Steer Loaders	57 57 50 75 54 74 40	91	37	57	53	48	37	78	77	37	59	59	59	55	53	37	52	50	50	47	50	55	35	37	37	36	36	35	35	34
3	Equipment Installation	(1) Crane (399 hp) (5) Forklifts (145 hp) (8) Pile drivers (15) Pickup Trucks/ATVs (2) Water Trucks (189 hp) (2) Generator Sets (2) Skid Steer Loaders	43 30 20 40 50 74 40	87	33	53	49	44	33	74	73	33	55	55	55	53	51	33	48	46	46	43	46	53	31	33	33	32	32	31	31	30
4	Commissioning	(5) Pickup Trucks/ATVs	40	51	0	17	13	8	0	38	37	0	19	19	19	15	13	0	12	10	10	7	10	15	0	0	0	0	0	0	0	

Goose Prairie Solar Project

Figure 1 Project Area

Yakima County, Washington

-  Project Area
-  Noise Sensitive Receptor
-  Participating Landowner
-  Substation
-  Site Layout
- Parcels
 -  Class A EDNA
 -  Class C EDNA



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