

United States Department of State

Final Environmental Assessment

for the

VANTAGE PIPELINE PROJECT

Applicant for Presidential Permit

Vantage Pipeline US LP



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Environmental Assessment**

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ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
ACHP	Advisory Council on Historic Preservation
ADC	Animal Damage Control
AEGS	Alberta Ethane Gathering System
APE	Area of Potential Effect
ARPA	Archaeological Resources Protection Act
ATWS	additional temporary workspace
BA	Biological Assessment
BGEPA	Bald and Golden Eagle Protection Act
BMP	best management practice
bpd	barrels per day
Bcf	billion cubic feet
CAA	Clean Air Act
CCF	central control facility
CEQ	Council on Environmental Quality
CH ₄	Methane
CO	carbon monoxide
CO ₂	carbon dioxide
Conservation Plan	<i>Voluntary Conservation Plan in Furtherance of the Migratory Bird Treaty Act and Bald and Golden Eagle Protection Act and Executive Order 13186</i>
CREP	Conservation Reserve Enhancement Program
CRP	Conservation Reserve Program
CWA	Clean Water Act
dBA	decibels on the A-weighted scale
DOS	U.S. Department of State
DOT	U.S. Department of Transportation
dS/m	deci-siemens per meter
EA	Environmental Assessment
EC	electrical conductivity
EI	environmental inspector
EO	Executive Order
EPA	Environmental Protection Agency
EPP	Environmental Protection Plan
ESA	Endangered Species Act
FR	Federal Register
FSA	Farm Service Agency
FWS	U.S. Fish and Wildlife Service
GHG	greenhouse gas
GRP	Grasslands Reserve Program
GWP	Global-warming potential
HAP	hazardous air pollutant
HCA	high consequence area
Hess	Hess Corporation
L _{dn}	day-night sound level
L _{eq}	equivalent sound level
L _n	nighttime noise
MBTA	Migratory Bird Treaty Act
MCL	drinking water standard
mg/L	milligrams per liter

MLBV	mainline block valve
MLRA	Major Land Resource Area
Mmcf/d	million cubic feet per day
MP	Milepost
N ₂ O	nitrous oxide
Na ⁺	Sodium
NAAQS	National Ambient Air Quality Standards
NDCWCS	North Dakota Comprehensive Wildlife Conservation Strategy
NDDAQ	North Dakota Department of Health, Air Quality Division
NDDOT	North Dakota Department of Transportation
NDGF	North Dakota Game and Fish Department
NDHD	North Dakota Health Department
NDPA	North Dakota Pipeline Authority
NDPSC	North Dakota Public Service Commission
NDSWC	North Dakota State Water Commission
NEB	National Energy Board
NEPA	National Environmental Policy Act
NGL	natural gas liquid
NHPA	National Historic Preservation Act
NID	National Interest Determination
NO ₂	nitrogen dioxide
NOI	Notice of Intent to Prepare an Environmental Assessment and Request for Comments on Environmental Issues, and to Initiate Consultation Under Section 106 of the National Historic Preservation Act for the Proposed Vantage Pipeline Project
NOVA	NOVA Chemicals Corporation
Nox	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSA	noise-sensitive area
NWP	Nationwide Permit
O ₃	Ozone
OPS	Office of Pipeline Safety
PA	Programmatic Agreement
Pb	Lead
PEM	palustrine emergent
PEMA	palustrine emergent temporarily flooded
PEMB	palustrine emergent saturated wetlands
PEMC	palustrine emergent seasonally flooded wetlands
PEMF	palustrine emergent deep marshes
PFYC	Probable Fossil Yield Class
PHMSA	Pipelines and Hazardous Materials Safety Administration
PLOTS	Private Land Open to Sportsman
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
Project	Vantage Pipeline Project
PUB	palustrine unconsolidated bottom
RCRA	Resource Conservation and Recovery Act
RV	recreational vehicle
SAR	Sodium Adsorption Ratio
SCADA	supervisory control and data acquisition

SHPO	State Historic Preservation Office
SO ₂	sulfur dioxide
SPCC Plan	Spill Prevention, Control and Countermeasure
SSURGO2	Soil Survey Geographic
SWPPP	Stormwater Pollution Prevention Plan
TCPs	Traditional Cultural Properties
TDS	total dissolved solids
THPO	Tribal Historic Preservation Officer
TMDL	Total Maximum Daily Load
USACE	U.S. Army Corps of Engineers
U.S.C.	United States Code
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
Vantage	Vantage Pipeline US LP
VOC	volatile organic compound
WHPA	wellhead protection area
WPA	Waterfowl Production Area
WRP	Wetlands Reserve Program