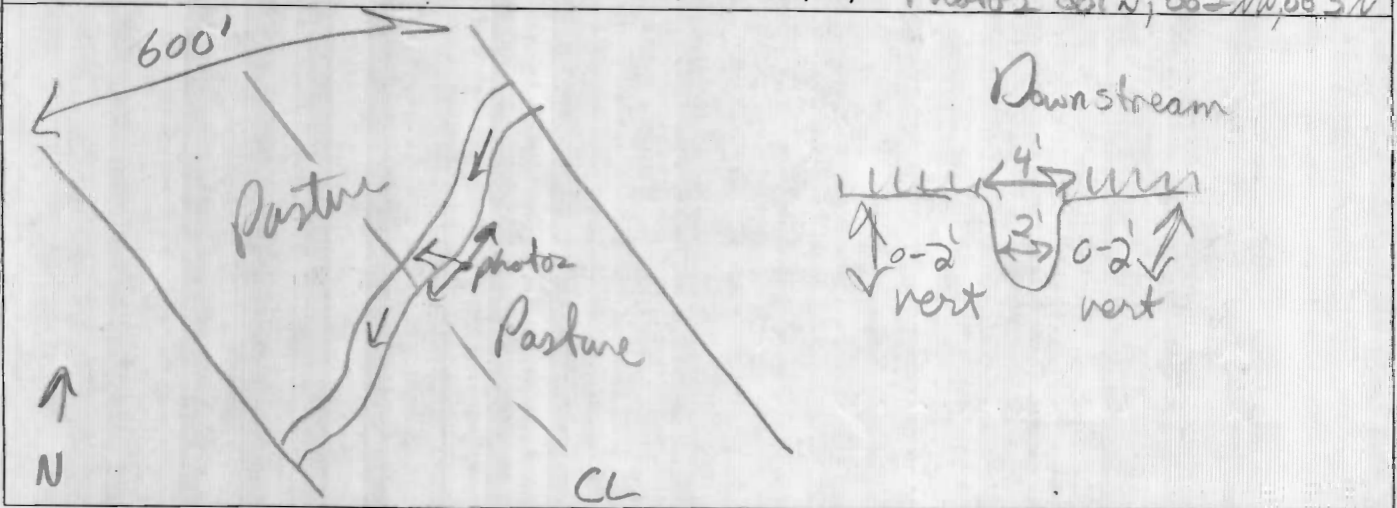


Waterbody Data Form

S 500 NA 011

Centerline Re-Route Access Road Ancillary Facility Transmission Line Other *Vieme Perowtc*
 Centerline ID: 3/26/10 Project Designated Name: Keystone II - Phase II
 Date: 11/5/10 Client/Project Name: TransCanada-Trow-KKL Milepost Enter/Exit:
 Team: B500 State/County: SD-Harding Quad Name: NA
 Logbook No.: 1 Logbook Page No.: 18 Tract No.: MC-SO-NA-01370 Sec 33 20N 4E

Drawing (Please provide orientation arrow, all features identified, location to centerline, etc.) *Photos 001N, 002NW, 003N*



Waterbody Type: Lake Pond Borrow Pit Stream Ag. Ditch Other
Stream Flow: Fast Moderate Slow Very Slow None
Flow Type: Perennial (Flows year round) Intermittent (Flows <3 month) None
 Seasonal (Continuous flow ≥ 3 months) Ephemeral (Flows only in response to rainfall)
Direction of Flow: N NE E SE S SW W NW No Flow
OHWM Width (ft.): 2'
Sinuosity: Braided Meandering Straight N/A
Stream Width (ft.): Top 4' **Water Surface (At Crossing Location)** 1'
Stream Depth (ft.): 0 1-3 3-6 6-12 12-18 18-24 24-36 36-48 48-60 60+
OHWM Indicators: Bent veg, Scour
Bank Height (ft.): (Looking Downstream)
 Left: 0-2 2-4 4-6 6-8 8+
 Right: 0-2 2-4 4-6 6-8 8+
Bank Slope: (Looking Downstream)
 Left: 4:1 3:1 2:1 1:1 Vertical
 Right: 4:1 3:1 2:1 1:1 Vertical

Qualitative Attributes

Water Appearance:			
<input type="checkbox"/> Clear	<input type="checkbox"/> Turbid	<input type="checkbox"/> Sheen on Surface	<input type="checkbox"/> Floating Algal Mats
<input type="checkbox"/> Slightly Turbid	<input type="checkbox"/> Very Turbid	<input type="checkbox"/> Greenish Color	<input type="checkbox"/> Obvious Surface Scum
<input checked="" type="checkbox"/> No Flow	<input type="checkbox"/> Other:		
Stream Substrate %: <i>Sandy loam</i>			
Aquatic Habitats:			
<input type="checkbox"/> Sand Bar	<input type="checkbox"/> Gravel Riffle	<input type="checkbox"/> In-stream Emergent Plant	% Cover:
<input type="checkbox"/> Gravel Bar	<input type="checkbox"/> Deep Pools	<input type="checkbox"/> In-stream Submerged Plant	% Cover:
<input type="checkbox"/> Mud Bar	<input type="checkbox"/> Bank Root Systems	<input type="checkbox"/> Fringing Wetlands	Characteristics:
<input type="checkbox"/> Undercut Banks	<input type="checkbox"/> Overhanging Trees/Shrubs	<input checked="" type="checkbox"/> None	
Aquatic Organisms Observed: <i>none</i>			
Riparian Zone:			
Width of Natural Vegetation Zone from Edge of Active Channel out to Flood Plain (ft): Left - <i>5'</i> Right - <i>5'</i>			
Vegetative Layers: <input checked="" type="checkbox"/> Herbs <input type="checkbox"/> Shrubs <input type="checkbox"/> Trees <input type="checkbox"/> Multiple			
Significant Bare Areas Within Riparian Zone <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
Evidence Of Non-Buffered Concentrated Flows: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
Tributary Condition: <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Artificial (Man-Made) <input type="checkbox"/> Manipulated			
Channel Condition:			
<input type="checkbox"/> Channelization/Braiding	<input type="checkbox"/> Unnatural Straightening	<input type="checkbox"/> Downcutting	
<input type="checkbox"/> Dikes/Berms	<input type="checkbox"/> Excessive Bank Erosion	<input checked="" type="checkbox"/> N/A	
Disturbances:			
<input checked="" type="checkbox"/> Livestock Access to Riparian Zone	<input checked="" type="checkbox"/> Manure In Stream or On Banks		
<input type="checkbox"/> Waste Discharge Pipes Present			
<input checked="" type="checkbox"/> Other:	<i>Low water x-ing</i>		

Habitat Characteristics, Aquatic, and Terrestrial Diversity Description:

Habitat ID Number: *NA*

Comments:

Pasture surrounds stream.

Stream Quality: High Moderate Low