



## AgWRAP SITE ASSESSMENT FORM NEW



## Agricultural Water Supply/Reuse Pond

This site assessment does NOT constitute a formal soil or geologic investigation or a pond design, and should not be used for construction. The information on this form represents a preliminary site assessment to evaluate the feasibility of a potential pond repair/retrofit, and assist in determining the priority for engaging engineering services for a more thorough site investigation and design. **This form should be completed by a Division Engineer.** 

COOPERATOR INFORMATION					
First Name Last name					
Street Address	City				
County of Pond Site Tract - Field	Pond Site Coordinates (decimal degrees):				
	LAT LONG				
Primary Purpose of Pond: Irrigation Livestoo	ck Watering Other				
SITE CHARACTERISTICS					
Type of Pond: Excavated Embankme	ent Combination				
Watershed Drainage Area (ac)					
Calculate Watershed Drainage Area using GIS or https://streamstats.usgs.gov/ss/					
Pond Surface Area (ac) Maximum Water Depth (ft)	Pond Volume (ac-ft)				
Embankment Height* (ft) Embankment Length (ft)	Pond volume = Pond Surface Area X Max. Water Depth X Reduction Factor*  *Excavated/Dug pond - Reduction Factor = 0.7				
	*Embankment/dam pond - Reduction Factor = 0.4				
*Measured from highest point on embankement to lowest point of downstream toe.					
Volume of Excavated Material (cu yds)  Method for Filling Pond (indicate approximate % contribution from each source)					
Watershed	Well Groundwater Recharge				
Pump from Stream	Other (please explain):				
AgWRAP WATER BALANCE					
What percent of demand will be met by this pond? (This figure must be calculated using the AgWRAP Water Balance Tool)					

## **SOIL SUITABILITIES AND LIMITATIONS**

List the predominant soil(s) present in and around the pond impoundment area\*:

Map Unit	Puolimant son(s) present in and an	Pond Reser		Embankements, Dikes, Levees	
Symbol	Map Unit Name	Rating	71100	Rating	
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			_		
Has a back	hoe soil investigation been comple	eted on this site?	YES	NO	
Are there a	any geologic or soil features that n	nay require special desig	n or construction such		
as rocky so	ils, shallow soils, shallow bedrock	deep sands, or other lo	cal pond failures? If	YES NO	
yes, please	explain.				
Is there an	adequate borrow area with in 1/2	mile of the site?	YES	NO NA	
is there an	adequate borrow area with in 1/2	Time of the site.			
Is there an	adequate place onsite to place sp	oil?	YES	NO NA	
		.=			
PERMIT	TING & HAZARD CLASSIFIC	ATION			
What is the	e estimated acreage of wetlands t	nat will be permanently	inundated by the		
impoundment area or covered by the embankment, spillway and spoil? (ac)					
How many	linear feet of stream will be perm	anently inundated by po	ond water and/or filled		
-	oankment, spillway and spoil?	, ,,	·		
			40.		
Length of S	Stream INUNDATED (ft)	Length of Stream FILLE	iD (ft) ¬		
		Elevation difference from	am hazard		
Distance of	f road/hazard downstream	to floodplain:	JIII Hazaru	Culvert/Bridge Dimensions	
Distance 0	Troad/Hazard downstream	to noodplain.	٦	Culverty Bridge Dimensions	
			_		
Most recei	nt annual average daily traffic cou	nt			
	maps.arcgis.com/apps/webappviewer		Predicted Hazard Clas	sfication	

## Are the physical characteristics of the site generally suitable for an embankment or excavated pond, including an emergency spillway that can address the YES NO purpose indicated above and satisfy the practice standard requirements? If NO, please indicate the concerns below. The Water Balance Tool results indicate that less Soils have limitations for pond reservoir area than 50% of the planned water use demand will Soils have limitations for use as embankment fill be met by this pond Topography of the site is not favorbale for a pond Watershed drainage area is not sufficient to Other: maintain full pool in pond (Generally; if the ratio of WS Drainage Area to Pond Surface Area is less than 20:1) Will the noted special design and construction considerations significantly increase project costs and potentially impact project implementation? If YES, YES NO NA please provide an explanation below. Please provide any additional information or observations regarding the suitability of this pond site. TECHNICAL REPRESENTATIVE Name Date Agency JOB APPROVAL AUTHORITY Name Agency Signature Date

TECHNICAL RECOMMENDATION