Exhibit 1

Stream Visual Assessment Protocol 2 Summary Sheet

Stream Vi	sual Assessment Protocol 2 Sum	mary Sheet
Owner's name	Evaluator's name	
Stream name	Tributary to:	HUC:
1. Preliminary Assessment	Information in this section may not	
A. Watershed Description	situations, or may not be available should complete the data fields if p relevant data that may not be captured.	ossible, or record other
Ecoregion or MLRA	Watershed Drainage area (acres or	r mi²)
Watershed management structures	: (no.): dams water controls irriga	ation diversions
No. of miles of contiguous riparian of	cover/mile of entire stream in watershed (es	stimated)
Land use within watershed (%): cro	pland hayland grazing/pastur	re forest
urt	oan industrial other (specify)	
Agronomic practices in uplands incl	lude:	
Confined animal feeding operations	s (no.) Conservation (acres)	_industrial(acres)
Number of stream miles on property	y Number of total strea	m miles
Stream hydrology:intermitte	nt; months of year wetted :	
perennial	; months of year at baseflow:	
B. Stream/Reach Description:		
Stream Gage Location/Discharge: _		ft ³ /s
Applicable Reference Stream:	Reference Stream Loc	ation:/
Information Sources:		

2. Field Assessment

A. Preliminary Field Data

Date of asses	sment	Weather cond	itions today		
			,	(ambient temp.\ % cloud cover)	
Weather cond	litions over past 2 to 5 d	ays:		age daytime temp.)	
		(No	o. of days precip/avera	age daytime temp.)	
Reach locatio	n (UTM or Lat./Long.) _	/	_ Channel type/cl	assification scheme	_/
Riparian Cove	er Type(s): Tree%	Shrub%	Herbaceous	_% Bare%	
Bank Profile:	Stratified Homogene	eous Cohes	ive Soil Nonc	cohesive Soil	
Gradient (√ or	ne): Low (0-2%) Mo	derate (>2<4%)	High (>4%) _		
Bankfull chan	nel widthft Rea	ach length	ft Flood plair	n widthft	
Average ripar	an zone width	ft Method used	(e.g., Range find	der):	
Average heigl	nt of woody shrubs	Method us	sed (e.g., Range	finder):	
Flood plain we	etlands, if present	acres/reac	า		
Dominant sub				fine sediments m) (< .06 mm)	
Photo Point L	ocations and Description				
Photo Pt. #	GPS Coordinates/Way	ypoints	D	escription	
1					_
2					
3					
SVAP Start Ti	me/Water Temp:	/S	VAP End Time/W	ater Temp:/	-
Notes:					

Stream/Reach Name: Landowner's Name:

SVAP 2 Field Data Sheet

Landowner's Name:		Evalu	lator's Name:			I	Date	<u>.</u>
1. Channel Condition								
Natural, stable channel with established bank	If channel is incis	ing (annears to be do	wncutting or degrading	g), score this element ba	ased on the descript	tions in this unner sec	tion of the matrix:	
No discernible signs of incision or aggradation;	Evidence of past incision and some recov			ent; plants are stressed,		T	cracks on banks; active	incision:
	•							
active channel and floodplain connected throughout		•		nnel appears to be disco			se; little or no connection	
reach, and flooded at natural intervals; streamban	•	•		quent or no inundation; s			m channel, and no inund	
low with few or no bank failures;	or appear to be steepening; top of point be	ars are below active	failures evident or in	nminent ; point bars loca	ited adjacent to	streambanks and fai	ilures prominent; point ba	ars, if present,
Stage I: Score 10 Stage V: Score 9 (terrace)	floodplain.		steep banks.			located adjacent to s	steep banks. Stage II or I	III, scores rangin
	Stage I: Score 8 Stage V: Score 7-8 Stage	e IV: Score 6	Stage IV: Score 5 St	tage III: Score 4 Stage II	: Score 3	from 2 to 0, dependi	na on severity.	
10 9	If channel is aggrading (ap	pears to be filling in a	nd is relatively wide a	nd shallow), score this e	element based on th	e descriptions in this	lower section of the mat	rix:
Channel evolution model	Lateral migration & bank erosion are withi			ration and bank erosion			nel migration & bank eros	
	variability. If present, multiple channels se	•	-	ability; deposition of sed			g channel to be very sha	
I The state of the							-	
Stable Flood plain Q_2 Terrace ₁	characteristic of stream riach & not threat	ening spauring		hallow in places & there		•	cture &/or impacting hist	oncai spawning
	habitat quality.		_	cture or diminishing spar	wning nabitat	habitat quality.		
Incision Plan Q ₁₀ Headcutting			guality.					
	8 7	6	5	4	3	2	1	0
	Comments:							
Widening Bank failure								
+Q ₁₀								
IV Stabilizing Terrace,								
Stabilizing +Q.								
Stable Terrace ₂								
Flood plain Q ₂								
2. Hydrologic Alteration								
	Deal full and high an flavor account when are		Dauld II and blaken	flanca a sanca a alice a sanca a s		Daniel II and bink and	(I	
Bankfull and higher flows occur according to the	Bankfull and higher flows occur only once			flows occur only once ev			flows rarely occur or occ	
natural flow regime, generally every year, AND no	less often than the local natural flow regin	•	1	floodplain, stream water			/year. Stream water with	
dams, dikes, water control structures, or	the floodplain, stream water withdrawals,,	or water control	water control structu	ires alter the natural flow	regime.	completely de-water	channel; and/or stormwa	ater or urban
development in the floodplain; AND natural flow	structures may be present but do not sign	ificantly alter the				runoff discharges dir	ectly to stream and seve	erely alters the
regime prevails.	natural flow regime.					natural flow regime.		
10 9	8 7	6	5	4	3	2	1	0
Comments: AK SVAP does not include language	about bankfull occurring more frequently. Inci-			ccess the floodplain are		on BUT more frequen	t flooding is also a sign	of degradation-
whether it be from more impervious surface causi								or dogradation
whether it be from those impervious surface educati	g riigher news in a bearook or conference intea t	charmer or areas whe	re animopogenie enai	iges to the stream char	inci are causing it to	aggrade and nood n	ore regularly.	
2 Bank Condition Spare and hank congretal								
3. Bank Condition - Score each bank separatel			In .			In .		
Banks apear stable; protected by roots of natural	Banks appear moderately stable, protecte	•		rately unstable; very little			ble; no bank protection v	
vegetation, wood, and rock; no man-made structu	es vegetation, wood, rock or a combination of	of materials; limited	banks by roots of na	itural wood, vegetation, o	or rock; man-made	rock or vegetation; ri	iprap, and/or other struct	ures dominate
present on bank; no bank failures; no recreational	number of structures present on bank; evi	idence of erosion or	structures cover mo	re than half of reach or e	entire bank;	banks; numerous ac	tive bank failures; recrea	ational and/or
access.	bank failures, some with re-establishment	of vegetation:	excessive bank eros	sion or active bank failure	es: recreational	livestock use contrib	uting to bank instability.	
	recreational use and/or livestock does not			contributing to bank inst			g	
		t negatively impact	and/or investook ase	contributing to bank ins	tability.			
Right Bank 10 9	bank condition. 8 7	6	5	4	3	2	1	0
Left Bank 10 9	8 7	6	5	4	3	2	1	0
Comments: Left & right bank determined by looki				4	<u> </u>		<u>'</u>	
Comments: Left & right bank determined by looki	g downstream. Score for this element = left to	bank score + right bar	ik score divided by 2.					
4. Riparian Area Quantity - Score each bank se								
Natural plant community extends at Natural p	ant community extends at least one bankfull	Natural plant comm	unity extends at least	Natural plant communi	ity extends at least 1	1/3 of the bankfull	Natural plant community	y extends less
least two bankfull widths or covers the width or o	overs 1/2 to 2/3 of active floodplain and is	one-half of the bank	full width or covers at	width or covers 1/4 of ac	ctive floodplain. Veg	getation gaps exceed	than 1/3 of the bankfull	width or less
	s throughout property. Vegetation gaps do	least 1/2 of active flo		30% of the estimated le	, ,	, , ,	than 1/4 of active floodpla	
, ,	d 10% of the estimated length of the stream		30% of the estimated		g oo oouiii	and proporty.	gaps exceed 30% of the	•
	9							
on the pr		length of the stream		 	•		length of the stream on	
Right 10 9	8 7	6	<u>5</u>	4	3	2	1	0
Left Bank 10 9	8 7	6	5	4	3	2	1	0
Comments: Left & right bank determined by look	ng downstream. Score for this element = left	bank score + right ba	nk score divided by 2	. IF the score of one bar	nk is 7 or greater &	the score of the other	bank is 4 or less, subtra	act 2 pts from the
final score.								

Landowner Name: <u>SVAP 2 Field Data Sheet</u>

. Riparian A	rea Quality	/ - Score	entire property.	Rate entire property								
latural and d				Natural and diverse ri	narian vegetation wit	th composition	Natural vegetation cou	mpromised. Evidence	of concentrated	Little or no natural veg	netation Evidence of	concentrated flo
	•	•	ture appropriate	density and age struct		•	· ·	the riparian area. Inva		running through the rig	•	
			concentrated	species present in sm			common (>20%<50%		orvo opooloo	widespread (>50% co		ороскоо
ows through		,p00,00 01	Concontitutou	oposios procent in oni	all Hamboro (2070 oc	3701 01 1000).	0011111011 (>2070,0070			Madoproda (20070 00	vo.,.	
ight Bank		0	9	8	7	6	5	4	3	2	1	0
eft Bank		0	9	8	7	6	5	4	3	2	1	0
	S		, 0	downstream. Score for		J	•					
Water App												
			propriate to site	Water appears lightly				irbid most of the time (Uncharacteristically hi		
,			ce; no evidence	event, but water clear			presence of motor oil	sheen on surface in sla	ackwater areas.	and/or considerable a	mount of motor oil sh	een present
f water conti				surface; no evidence						throughout reach.		
10 omments:		9	8	7	6	5	4	3	2	1	0	
ith greater th depth, woo	han 30% of	the pool b	by riffles, each ottom obscured allow pools also	One or 2 deep pools s than 30% of the pool I cover; at least one sha	oottom obscured by			llow (< 2 times maximons of pool botto cover.		Pools absent, but som cover discernible. OR continuous pools or sl	Reach is dominated	
esent.	0		9	8	7	6	5	4	3	2	1	0
		lient Stre	ams (>2% slope)	0	- 1	0	3	4	<u> </u>		ı	0
ore than 3 d	deep pools s	separated	by boulders or	Two to 3 deep pools,	each with greater tha	an 30% of the pool	Pools present but sha	llow relatively shallow,	with only 10 -	Pools absent.		
od, each w	vith greater t	han 30%	of the pool bottom	bottom obscured by d	epth wood, or other	cover; at least one	30% of pool bottoms	obscured by depth, wo	od, or other cover.			
scured by o	depth, wood	, or other	cover. For small	shallow pool present.	For small streams, p	oool bottoms may not	For small streams, po	ol bottoms may not be	completely			
	l bottoms ma			be completely obscure				ıt pools are deep enou				
			eep enough to	to provide some cove	r for resident fish. At	least one shallow	minimal cover for resi	dent fish. No shallow p	ools present.			
		or resider	t fish. Shallow	pool also present.								
ols also pre 10			9	8	7	6	5	4	3	2	1	0
omments:	U		9	٥	ı	Ö	υ	4	აა		I	U
	o Aquatic S	necies M	ovement	Fish Barriers								
	arriers that p	•		Physical structures, w	ater withdrawals and	d/or water quality	Physical structures w	ater withdrawals and/o	or water quality	Physical structures, w	ater withdrawals and	or water qualit
			ime of the year.	seasonally restrict mo				aquatic species through		prohibit movement of		- water quali
		10			5						0	
nay not be ap	pplicable in	AK?) and	restricts/or is a pa	rtial barrier throughout t	the year- for example	e jump height criteria	is not being met at a cu	llvert- but fish are found	d above the site so	ers (restricts movement clearly fish are able to ar round passage restric	negotiate the culvert	

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9. Fish Habitat Complexity								
10 or more habitat features available, at least one of	8 to 9 habitat features available.	6 to 7 habitat feature	es available.	4 to 5 habitat features available.		<4 habitat features available.		
which is considered optimal in reference sites (e.g.,								
large wood in forested streams.)								
10	9 8	7	6	5	4	3	2 1	0
1)Logs, large wood: 2/rch. 2)Small wood accumulation								3/rch. 8)Cobble
riffles: 2/rch. 9)Undercut banks: 3/rch or 25% of bank	area. 10)1 nick root mats: 3/rcn. 11)Waci	ropnyte beas: 1/rcn.	12)Off-channel habitat	s: 2/rcn. 13)Other loc	ally important nabitat	reatures. (describe	in comments field)	
Comments:								
10. Aquatic Invertebrate Habitat								
At least 9 types of habitat present; a combination of	8 to 6 types of habitat; site may be in need		5 to 4 types of habita	it present	3 to 2 types habitat p	present	None to 1 type of ha	bitat present
wood with riffles should be present and suitable in	reference habitat features, and stable woo	od-riffle sections.						
addition to other types of habitat. (If non-forested								
stream, consider reference site's optimal habitat type								
needed for this high score.)		•	_		0			
10 9	8 7	6	5	4 0/bb 4)5:	3	2	1	0
1)Logs, large wood: 2/subreach. 2)Large boulders w/		•	•	•	•	, ,	, , ,	•
riffles: 1/subreach. 7) Undercut banks: 1/subreach or	25% of bank area. 8)Pools: no minimum.	9) I nick root mats: 1/	subreach. 10)Macrop	nyte beas: 1/subreact	n. 11)Other locally im	portant nabitat feati	ures. (<i>aescribe in comn</i>	nents tiela).
Subreach= 5X active channel width Comments:								
Commonic.								
11. Aquatic Invertebrate Community								
Invertebrate community is diverse and well	Invertebrate community is well represente			nity is composed mair	•		nunity composition is pr	
represented by Group I or intolerant species; One or	facultative species, and Group I species a	are also present; one	III, and/or 1 or 2 spec	cies of any group may	dominate.		only 1 or 2 species of ar	ny group is present
two species do not dominate.	or two species do not dominate.					and abundance is		
10 9 8	7 6	5	4	3	2		1 0	
Comments:								
12. Riffle Embeddedness								
Gravel or cobble substrates are <10% embedded.	Gravel or cobble substrates are 10-20%	Gravel or cobble su	hstrates are 21-30%	Gravel or cobble sub	strates are 31-40%	Gravel or cobble s	ubstrates are >40% em	phedded
10 9	8 7	6	5	4	3	2	1	0
Comments:			*	•	· · · · · · · · · · · · · · · · · · ·			

Landowner Name: SVAP 2 Field Data Sheet

Suspected causes for SVAP scores <5:

B. Element Scores

Score	Element	Score
	14. Aquatic Invertebrate Community	
	15. Riffle Embeddedness	
	16. Salinity	
	A. Sum of all elements scored	
	B. Number of elements scored	
	Overall score: A/B	
	1 to 2.9 Severely Degraded	
	3 to 4.9 Poor 5 to 6.9 Fair	
	7 to 8.9 Good	
	9 to 10 Excellent	
	Score	14. Aquatic Invertebrate Community 15. Riffle Embeddedness 16. Salinity A. Sum of all elements scored B. Number of elements scored Overall score: A/B 1 to 2.9 Severely Degraded 3 to 4.9 Poor 5 to 6.9 Fair

Recommendations for further assessment or actions:
Additional Information: