Stream Crossing Dat	a Sheet					Site ID:	FAUN	13	
General Information	Marin Alex			400	about the last of	192	107 PF 1	TIES	80/
Name of Observer(s):	11					Date:	10/1	1/10	
				GPS					
GPS Waypoint: Additional Location Comments:				Lat/Long:	-				
Road Information	H 1 157 - 238 1	Lien		-		2149.03			
Road Name/Number:	Alarich LK	R.	d						
Road Type: Federal	State County	Town	-	Tribal	Private Othe	r:			
Road Surface: Paved	Gravel Sand	Nativ	ve Surfa	асе	Other:				
Road Width (ft):	Fill Depth (ft):	2	_						
Crossing Information					· ·				
Structure Type: Culvert(s)	no.: _ l Bridge	Ford		Dam O	Other:	Structure	e ID:		
Structure Shape	Structure Material	Substra	ate in S	tructure	Structure Cond	ition			
Round	Metal	Non	è	Sand	General Condit	ion: N	ew Good	Fair	Poor
Square/Rectangle	Concrete	Grav	/el	Rock	Plugged:	% Inle	et Outle	t In	Pipe
Open Bottom Square/Rectangle	Plastic		Mix	:ure	Crushed	% Inle	et Outle	t In	Pipe
Pipe Arch	Wood				Rusted Throug	h?	Yes	N	0
Open Bottom Arch	Structure I	nterior	_		Inlet Typ	e	Outle	t Type	•
Ellipse	Smooth	or Cor	rugate	d	Projecting M	itered	At stream gi	rade	
Structure Water Velocity (ft/sec)):¹ 2.5				Headwall A	pron	Cascade ove	r riprap	
Structure Water Depth (ft): 1	inlet 0.4	(outlet	0.4	Wingwall 10-30° o	r 30-70°	Freefall into	pool.	
Structure Length (ft): 1	63				Trashrack		Freefall onto	o riprap	
Structure Width (ft): ¹ 30		leight (ft): 1	3.	Other		Outlet apror	1	
					Galler		Other		
							Other		
Buried Depth of Structure (ft):	inlet	<u> </u>	outlet		_				
Stream Information	that we fill			5,72,22,8	M. SERVICE		TIME	Piliti	- T
Stream Name:	n l			Stream V	Vater Velocity (in ri	ffle) (ft/s	ec): /_	5	
Stream Flow: None 72 Bar	nkfull> < Bankfull =	= Bankf	ull :	> Bankfull					
Water Depth (in riffle) (ft):	Warner -			+1. 10	Stream W	idth (in ri	iffle) ft:	8	
-		e ,	1.6		m Pond Length & V			Ka	
Scour Pool Length, Width & Dep	th (ft):*	7 /	1.	Upstrea	im Pond Length & V	/iatn (π):	_/*/	- Series	
Fish Passage Information		T v . /		- 1. A.Y 310	- di	a lalia.	30.00	(A)	No
	+2		-			red?			(1)2
		-	-	Is there a	change in head from		ream	Yes	No
		1.00				the bank	full		
substrate?	en tile stredili	Yes	No	stream wi		ane bank		Yes	No
Is water in the structure moving f	faster than in the	Yes	No	Is there de	ebris blocking the inl	et?		Yes	10
	er than in the stream?	Yes	Nø	Is there ev	vidence of overtoppi	ng or was	sh-outs?	Yes	Ro
	ructure's entire length? cch the stream faster than in the	Yes	No	Is the structure is there a consider to do to is the structure stream with its there do	wnstream side? cture narrower than dth? ebris blocking the inl	the upst the bank et?	cfull	Yes	

Site ID: FAUN B

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert#	Width (ft)	Height (ft)	Length (ft)
4			
5			

Pnotos		A DESCRIPTION OF THE PROPERTY	1 1 1 1 1 1 1	
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach — Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determi	nation			
Follow these guidelines to determ to evaluate passage for a particular	nine "passability" for a range of fish species. Thr ar species. Answer all questions.	esholds may need to be modified	if the obje	ective is
Passability = 0		t species and life stages cannot p	ass at mo	st flows.
	an be answered "yes", then the crossing barrier	r score = 0.		
1. The outlet of the structure is			Yes	No
	is greater than 3 feet/second during baseflow.		Yes	No No
	ter depth to stream water depth is less than 0.1		Yes	NO
Structure water depth:	Stream water depth:	Depth Ratio: _		
Passability = 0.5	Some sr	pecies and/or life stages cannot p	ass at mo	st flows.
	an be answered "yes", then the crossing barrier			
The water depth in the struct		305,0	Yes	No
	s 2-3 feet/second during baseflow.		Yes	No
3. The structure is longer than 3	3 2-5 feet) second during basenow. 30 feet and does not have natural substrate thro	ough its entire length.	Yes	No
5. The structure is longer than 5		0		
Passability = 0.9	Salari, Tari a Maria de Albarda de Re	Ba	rrier at hig	gh flows.
If any of the following questions c	an be answered "yes", then the crossing barrier	r score = 0.9.		
1. There is a scour pool below th			Yes	No
	th to stream bankfull width is less than 0.5.		Yes	No
	Stream bankfull width:	Constriction Ratio: _		
Description 4	A LUNG POLICE TO THE WAY SEE THE FOR THE WAY AND THE TAIL		Not a	barrier.
Passability = 1	n be answered "yes", then the crossing barrier s	score = 1.	14,7	
1. The outlet of the structure is			Yes	No
	s less than 2 feet/second during baseflow.		Yes	No
 The structure water velocity in the structure water. 	ter depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the struct		0,1.	Yes	No
 The water depth in the struct There is not a scour pool below 			Yes	No
	th to stream bankfull width is greater than 0.5.		Yes	No
 The radio of the structure wid The structure is longer that 	n 30 feet and has natural substrate through its	entire length, or		
7. The structure is shorter the	an 30 feet and has natural substrate through its	entire length, or	Yes	No
The structure is shorter the	an 30 feet and does not have natural substrate	through its entire length.	_	
ine structure is shorter the	an 50 rect and goes not have natural substrate			

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN13

Stream Crossing Data Sheet Site ID: ANN 16 General Information Name of Date: Observer(s): Lat/Long: **GPS Waypoint:** Additional Location Comments: **Road Information** Road Name/Number: County Tribal Private Other: Road Type: Federal State Town Other: **Native Surface Road Surface:** Paved Grayel Sand Fill Depth (ft): Road Width (ft): **Crossing Information** Culvert(s) no.: / Bridge Ford Dam Other: Structure ID: **Structure Type: Structure Condition Structure Material Substrate in Structure** Structure Shape **General Condition:** Metal) New Good Poor Round) None Plugged: 50 % Inlet Outlet In Pipe Gravel Rock Square/Rectangle Concrete Crushed % Inlet Outlet In Pipe Mixture Plastic Open Bottom Square/Rectangle **Rusted Through?** Yes No Wood Pipe Arch **Outlet Type** Inlet Type Structure Interior Open Bottom Arch Smooth or Corrugated At stream grade Projecting Mitered Ellipse Structure Water Velocity (ft/sec): 1 Headwall Cascade over riprap Apron Structure Water Depth (ft): 1 inlet Wingwall 10-30° or 30-70° Freefall into pool. Structure Length (ft): 1 Freefall onto riprap Trashrack Structure Height (ft): 1 Structure Width (ft):1 Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1,2 Other Buried Depth of Structure (ft):1 inlet Stream Information Stream Water Velocity (in riffle) (ft/sec): Stream Name: < 1/2 Bankfull < Bankfull = Bankfull > Bankfull Stream Flow: None / Stream Width (in riffle) ft: Bankfull Width (in riffle) (ft): Water Depth (in riffle) (ft): Upstream Pond Length & Width (ft):2 Scour Pool Length, Width & Depth (ft):2 Fish Passage Information No No. Yes. Is there ponding upstream? Yes Is the structure perched? Yes' No Is the structure fully backwatered? No Is there a scour pool at the outlet? Yes Is there a change in head from the upstream Yes No Yes Is there substrate through the structure's entire length? No side to downstream side?

Nes

Yes

Yes

No

No

(No

stream width?

Does the structure substrate match the stream

Is water in the structure moving faster than in the

Is water in the structure shallower than in the stream?

substrate?

stream?

Is the structure narrower than the bankfull

Is there evidence of overtopping or wash-outs?

Is there debris blocking the inlet?

Yes

No

No

No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2		1.51	
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photo	os de la companya de		ALCOHOL: A STATE OF A DESCRIPTION	PATRICIANA E SIN IT MON	11.47	
☐ Site	e ID	☐ inlet	C	O utlet		
☐ Roa	ad Approach – Left	☐ Road Approach — Right)		
□ Ups	stream Conditions	Downstream Condition	ns 🖫)		
Fish	h Passage Determii	nation				
Follov to eva	w these guidelines to determi aluate passage for a particula	ine "passability" for a range of fish s r species. Answer all questions.	pecies. Thresholds m	ay need to be modified	if the ob	jective is
Passa	bility = 0			and life stages cannot p	oass at m	ost flows.
If any	of the following questions ca	an be answered "yes", then the cros	sing barrier score = 0			
1. T	he outlet of the structure is p	perched.			Yes	No
2. T	he structure water velocity is	greater than 3 feet/second during	baseflow.		Yes	< No
3. T	he ratio of the structure water	er depth to stream water depth is le	ss than 0.1.		Yes	No
	ture water depth:			Depth Ratio:		
	Luc. or	and the control of the same state of the same of the s	Some species and	or life stages cannot	oass at m	ost flows.
Passa	bility = 0.5	an be answered "yes", then the cros				
if any	he water depth in the structu	ure is less than 0.2 feet	Sing partier score		Yes	(No)
1. T	ne water depth in the structu	2-3 feet/second during baseflow.			Yes	(No)
 T T 	he structure water velocity is the structure is longer than 30	of feet and does not have natural sul	ostrate through its en	tire length.	Yes	No
		on the control of the second of	A STATE OF THE STA		erior at h	igh flows.
Passa	bility = 0.9		in a la minute de la compansa de la	Actual Control of the	iffici at ii	iĝi nows.
If any	of the following questions ca	an be answered "yes", then the cros	ising parrier score = 0	.5.	Yes	No
1. T	here is a scour pool below th	e structure.	0.5		Yes	No
2. T	he ratio of the structure, widt	th to stream bankfull width is less th	ian 0.5.	Constriction Ratio:	J.	140
Struc	ture width:	Stream bankfull width:	W	Constriction ratio.	0_7	
Passa	bility = 1				Not	a barrier.
If all o	of the following questions can	n be answered "yes", then the cross	ing barrier score = 1.			
	he outlet of the structure is r				Yes	No
2. T	he structure water velocity is	s less than 2 feet/second during bas	eflow.	х.	Yes	No
3. T	he ratio of the structure water	er depth to stream water depth is g	reater than 0.1.		Yes	No
4. T	he water depth in the structu	ure is greater than 0.2 feet.			Yes	No
	here is not a scour pool below				Yes	No
6. T	The ratio of the structure widt	th to stream bankfull width is great	er than 0.5.		Yes	No
7.	7 The structure is longer than	n 30 feet and has natural substrate	through its entire leng	gth, or		
/. [The structure is charter tha	in 30 feet and has natural substrate	through its entire len	gth, or	Yes	No
-	The structure is shorter tha	nn 30 feet and does not have natura	I substrate through it	s entire length.		
	Ine structure is shorter tha	an 50 feet and does not have nature		-		

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN16-CULVERT

Stream Cros	sing Data Sheet				Site ID:	FAUN	>	17
General Informatio	ín -							
Name of Observer(s):	Snell				Date:	10/11/1	SE CO	
Observer(s).		-		GPS		- 7 /		
GPS Waypoint:				Lat/Long:				_
Additional Location Comments:								
Road Information		577						
Road Name/Numbe	er: 700 N							
Road Type:	Federal State County	Town		Гribal	Private Other:			
Road Surface:	Paved Gravel Sand	Nati	ve Surf	ace	Other:			
Road Width (ft):	2 Fill Depth (ft):	6	_					
Crossing Information	n (I) Æ							
Structure Type:	Culvert(s) no.: Bridge	Ford		Dam Of	ther: Structu	re ID:		
Structure Shape	Structure Material	Substr	ate in S	tructure	Structure Condition			
Round	MetaD	Non	ie	Sand	General Condition:	New Good	Fair	Poor
Square/Rectangle	Concrete	Gra	vel	Rock	Plugged: % In	let Outlet	In	Pipe
Open Bottom Square/Re	ctangle Plastic		Mix	ture	Crushed % in	let Outlet	In	Pipe
Pipe Arch	Wood				Rusted Through?	Yes	No	0
Open Bottom Arch	Structure I	nterior			Inlet Type	Outle	t Type	!
Ellipse	Smooth	or Coi	rugate	d	Projecting Mitered	At stream gra	ide	
Structure Water Ve	locity (ft/sec): 1				Headwall Apron	Cascade over	riprap	
Structure Water De			outlet	0.3	Wingwall 10-30° or 30-70°	Freefall into	nool.	
Structure Length (ft					Trashrack	Freefall onto		
			1	21			•	
Structure Width (ft)				5 10	Other	Outlet apron		
Perch Height (ft): 1, 2	Height of H	lead (ft	:): 1, 2			Other		
Buried Depth of Str	ucture (ft):1 inlet		outlet					
Stream Information	range of the state of the				A CONTRACTOR		131	
Stream Name:	Werragers Drtch			Stream W	/ater Velocity (in riffle) (ft/	sec):		
		= Bankf	iull	> Bankfull				
	A			,	A second to the	3661 - 1 64-	The same	
Water Depth (in riff	fle) (ft): 🙎 🍮 Bankfull Wid	dth (in i	riffle) (-	Stream Width (in	_	Piver	
Scour Pool Length,	Width & Depth (ft): ²	/		Upstrea	m Pond Length & Width (ft): ²		_
Fish Passage Inform	nation		4					لونيس
Is the structure perc		Yes	No		nding upstream? cture fully backwatered?		Yes	No
Is there a scour poo		Yes	No		change in head from the up	stream		No
	nrough the structure's entire length?	Yes	Nø	side to dov	wnstream side?		Yes	IN.O
	substrate match the stream	Yes	No	Is the struc	cture narrower than the bar	nkfull	Yes	No
substrate? Is water in the struc	ture moving faster than in the	Yes	N1 -			•	Yes	No
stream?			No		bris blocking the inlet?	1		1
Is water in the struc	ture shallower than in the stream?	Yes	No	ls there ev	idence of overtopping or wa	ash-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

PIIO	tos		가는 마일에게 금액게 되는 뭐 수요.		
□ s	ite ID	☐ Inlet	☐ Outlet		
□ R	oad Approach – Left	Road Approach – Right			
🛄 u	pstream Conditions	☐ Downstream Conditions			
Fis	sh Passage Determi	nation			
		ine "passability" for a range of fish species. Thre r species. Answer all questions.	esholds may need to be modif	ed if the obj	ective is
Pas	sability = 0	Most	t species and life stages canno	ot pass at mo	st flows.
If a	ny of the following questions ca	an be answered "yes", then the crossing barrier	score = 0.		
1.	The outlet of the structure is p	perched.		Yes	No
2.	The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
3.	The ratio of the structure wat	er depth to stream water depth is less than 0.1.		Yes	No
Stru	ıcture water depth:	Stream water depth:	Depth Ratio	:	
Dac	sability = 0.5	Some sp	ecies and/or life stages canno	ot pass at me	st flows.
If ar	by of the following questions ca	an be answered "yes", then the crossing barrier			
1.	The water depth in the structu			Yes	No
2.	The structure water velocity is	2-3 feet/second during baseflow.		Yes	No
3.	The structure is longer than 30) feet and does not have natural substrate thro	ugh its entire length.	Yes	No
Dac	sability = 0.9	Property of the N. Wallet Co.		Barrier at hi	gh flows
If an	ny of the following questions ca	an be answered "yes", then the crossing barrier	score = 0.9.		
1.	There is a scour pool below th			Yes	No
2.		th to stream bankfull width is less than 0.5.		Yes	No
		Stream bankfull width:	Constriction Ratio	:	
Dac	sability = 1		Market Trage ("Lifekels	Not a	a barrier.
lf al	Lof the following questions car	n be answered "yes", then the crossing barrier s	score = 1.		
1.	The outlet of the structure is r			Yes	No
2.		s less than 2 feet/second during baseflow.		Yes	No
3.	The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Yes	No
4.	The water depth in the structu	re is greater than 0.2 feet.		Yes	No
5.	There is not a scour pool below			Yes	No
6. 7.	The ratio of the structure widt	th to stream bankfull width is greater than 0.5. In 30 feet and has natural substrate through its e	entire length, or	Yes	No
	ine structure is longer than	in 30 feet and has natural substrate through its	and congon, or	Yes	No

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN17-CULVERT

Stream Crossin	ig Data Sheet				Site ID:	tour	'N	10
General Information	e periodo en la como de la como d			77.55	100	and the same		0
Name of Observer(s):	Snell				Date:	16/11	110	
CDS Wownsints				GPS Lat/Long:				
GPS Waypoint: Additional Location Comments:				Lacy Long.				
Road Information	SRED NO LOS				n 1 - w			
Road Name/Number:	tarm cras	Solve						
Road Type: F	ederal State County	Town		Tribal P	rivate Other:			
Road Surface:	Paved Gravel Sand	Nativ	ve Surf	ace	Other:			
Road Width (ft):	Fill Depth (ft):	2	_					
Crossing Information	\$10°						-	
Structure Type:	Culvert(s) no.:/_ Bridge	Ford		Dam Oth	er: Structu	re ID:		_
Structure Shape	Structure Material	Substr	ate in S	tructure	Structure Condition			
Round	Metal	Non	ie	Sand	General Condition:	lew Good	Fair	Po
oquare/Rectangle	Concrete	Grav	vel	Rock	Plugged: % In	let Outle	et ir	n Pip
Open Bottom Square/Rectang	gle Plastic		Mix	ture	Crushed % Int	et Outle	et Ir	n Pip
Pipe Arch	Wood				Rusted Through?	Yes	N	Ю
Open Bottom Arch	Structur	e Interior			Inlet Type	Outle	et Type	e
Ellipse	<u>Smoot</u>	or Cor	rugate	d	Projecting Mitered	At stream g	rade	
Structure Water Veloci	ty (ft/sec):1				Headwall Apron	Cascade ove	er riprap)
Structure Water Depth		.3	outlet	0.3	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft):	21				Trashrack	Freefall onto	o riprap	
Structure Width (ft):	2) Structur	e Height (ft): 1	3	Other	Outlet apro	n	
		of Head (ft		-		Other		
Perch Height (ft): 1,2		-0.00				Other		
Buried Depth of Structu	are (ft):1 inlet	-	outlet		-			
Stream Information	ABBARAMIN DA H * 2		10.13 (2.1)	100			- 10	116
Stream Name:	Omores Detali			Stream Wa	ter Velocity (in riffle) (ft/	sec): 🐠	8	_
Stream Flow: None	< 1/2 Bankfull < Bankfull	= Bankf	full	> Bankfull				
Water Depth (in riffle)		Width (in i	riffle) (ft):	Stream Width (in	riffle) ft:	8	
Scour Pool Length, Wid		1		-	Pond Length & Width (ft)	:2		
in the same of the same of the same of		n = 1, =	Fore	or at the sound address		10H (6)	10 - 01	
Fish Passage Informations s the structure perchec		Yes	(No	Is there pon	ding upstream?	1 1 1	Yes	4
s there a scour pool at		Yes	ONO		ure fully backwatered?		Yes	đ
	gh the structure's entire lengt	h? Yes	No		ange in head from the ups	tream	Yes	-
Does the structure subs	trate match the stream	Yes	No		ure narrower than the ban	kfull	Nes	r
	e moving faster than in the	Yes	Νσ	Is there deb	ris blocking the inlet?		Yes	1
	shallower than in the stream	? Yes	No	Is there evid	lence of overtopping or wa	sh-outs?	Yes	1

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3		"	

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos			2.5	
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determin	nation			
Follow these guidelines to determing to evaluate passage for a particular	ne "passability" for a range of fish species. Thre r species. Answer all questions.	esholds may need to be modifie	d if the obje	ective is
Passability = 0	Mos	t species and life stages cannot	pass at mo	st flows.
If any of the following questions ca	n be answered "yes", then the crossing barrier	score = 0.		
1. The outlet of the structure is p			Yes	No
2. The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
	er depth to stream water depth is less than 0.1.		Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:		
Passability = 0.5	Some so	pecies and/or life stages cannot	pass at mo	st flows.
	n be answered "yes", then the crossing barrier			
		30010 - 0.3.	Yes	No
	2-3 feet/second during baseflow.	x.	Yes	No
	l feet and does not have natural substrate thro	ugh its entire length.	Yes	No
5. The structure is longer than 50	Teet and does not have natural substrate time	ugh his chini c hengim		
Passability = 0.9			arrier at hig	gh flows.
f any of the following questions ca	n be answered "yes", then the crossing barrier	score = 0.9.		
 There is a scour pool below the 			Yes	No
The ratio of the structure width	h to stream bankfull width is less than 0.5.		(Yes)	No
Structure width:	Stream bankfull width:	Constriction Ratio:	-	
Passability = 1			Not a	barrier.
If all of the following questions can	be answered "yes", then the crossing barrier s	score = 1.		
1. The outlet of the structure is n			Yes	No
	less than 2 feet/second during baseflow.		Yes	No
3. The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the structu			Yes	No
5. There is not a scour pool below			Yes	No
	h to stream bankfull width is greater than 0.5.		Yes	No
a the tano or the southine with				
 The ratio of the structure widtle The structure is longer than 	30 feet and has natural substrate through its 6	entire length, or		
7. The structure is longer than	30 feet and has natural substrate through its ϵ n 30 feet and has natural substrate through its	entire length, or entire length, or	Yes	No

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN18

Stream Cross	Stream Crossing Data Sheet				Site ID:	FAN	W/U 19		
General Information	n e				The Bright		ations;	1°,	La li
Name of Observer(s):	50	ell				Date:	10/	1/10	
- Doc. 101(0).	-				GPS				
GPS Waypoint:					Lat/Long:				
Additional Location Comments:									
Road Information	I	1 - 10 14 11 10 19			Non-Se		6 1		
Road Name/Number	· er:	300 W							
Road Type:	Federal	State County	Town		Tribal P	Private Other:			
Road Surface:	Payed	Gravel Sand		ve Surf		Other:			
Road Width (ft):	21		5						
modu widii (it).		in separation	U	_					
Crossing Informatio		1							
Structure Type:	Culvert(s)	no.: / Bridge	Ford		Dam Oti	her: Structu	re ID:		-
Structure Shape		Structure Material	Substr	ate in S	Structure	Structure Condition			
Round		Metal	Non	ie	Sand	General Condition:	New Good	Fair	Poor
Square/Rectangle		Concrete	Gra	vel	Rock	Plugged: % In	nlet Outle	et In	n Pipe
Open Bottom Square/Rec	ctangle	Plastic		Mix	ture	Crushed % In	let Outle	et In	n Pipe
Pipe Arch		Wood				Rusted Through?	Yes	N	lo
Open Bottom Arch		Structure li	nterior			Inlet Type	Outle	et Type	е
Ellipse		Smooth	or Cor	rugate	d	Projecting Mitered	At stream g	ade	
Structure Water Ve	ocity (ft/sec):1 D.3				Headwall Apron	Cascade ov	er riprap)
Structure Water De	pth (ft): 1	inlet 0.5		outlet	0.4	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft		~ 80				Trashrack	Freefall ont	o riprap	
Structure Width (ft)		Structure F	leight (ft): 1	7	Other	Outlet apro	on .	
	-	Height of H					Other		
Perch Height (ft): 1,2							Other		
Buried Depth of Str	ucture (ft):	inlet		outlet		_			
Stream Information		and the second	1 - 5/10	169	Her Will	-515 - 100 - 100			7/11
Stream Name:	Wange	13 Ditch			Stream Wa	ater Velocity (in riffle) (ft/	sec):		
Stream Flow: No	ne < ½Ba	nkfull < Bankfull :	= Bankf	ull	> Bankfull				
		ある Bankfull Wid				Stream Width (in	riffle\ ft:	10	
Scour Pool Length, \	Nidth & Dep	oth (ft):*/	/		Upstream	n Pond Length & Width (ft):"		
Fish Passage Inform		Ford A. A. Taran	1	1		40° 25° 11° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20	(6.3.1.	1 12	9
Is the structure perc		12	Yes	(N)		nding upstream? ture fully backwatered?			ANG ANG
Is there a scour poo			Yes			hange in head from the up	stream		-
Is there substrate th	rough the st	ructure's entire length?	Yes	No	side to dow	nstream side?		Yes	No
Does the structure s	ubstrate ma	tch the stream	(es)	No	Is the struct	ture narrower than the bar	nkfull	Yes	No
substrate? Is water in the struc	ture moving	faster than in the	V==	66		oris blocking the inlet?		Yes	- No
stream?			Yes	n					4
Is water in the struc	ture shallow	er than in the stream?	Yes	TNO	Is there evi	dence of overtopping or w	asn-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos		The state of the s		
☐ Site ID		☐ Inlet	☐ Outlet	
🗖 Road Ap	proach – Left	Road Approach – Right	۵	
☐ Upstrear	n Conditions	☐ Downstream Conditions		
Fish Pa	ssage Determi	nation		
		ne "passability" for a range of fish species. Thro	esholds may need to be modified if the obj	jective is
to evaluate	passage for a particula	r species. Answer all questions.		
Passability	±0 1111 1510 1511 1	Mos	t species and life stages cannot pass at m	ost flows.
		in be answered "yes", then the crossing barrier	score = 0.	
1. The ou	tlet of the structure is p	erched.	Yes	No
2. The str	ucture water velocity is	greater than 3 feet/second during baseflow.	Yes	No
3. The rat	io of the structure wate	er depth to stream water depth is less than 0.1.	. Yes	No
Structure w	ater depth:	Stream water depth:	Depth Ratio:	
Passability	=05	Some so	pecies and/or life stages cannot pass at m	ost flows.
If any of the	- 6.5 - following questions ca	in be answered "yes", then the crossing barrier		
	iter depth in the structu		Yes	No
		2-3 feet/second during baseflow.	Yes	No
3. The str	ucture is longer than 30) feet and does not have natural substrate thro	ugh its entire length. Yes	No
Passability	= 0.9		Barrier at h	igh flows.
If any of the	e following questions ca	in be answered "yes", then the crossing barrier	score = 0.9.	
	s a scour pool below the		Yes	No
		h to stream bankfull width is less than 0.5.	Yes	No
Structure w		Stream bankfull width:	Constriction Ratio:	
Passability	_ 1		Not	a barrier.
		be answered "yes", then the crossing barrier s	score = 1.	
	tlet of the structure is n		Yes	No
		less than 2 feet/second during baseflow.	Tes	No
3. The rat	io of the structure wate	er depth to stream water depth is greater than	0.1.	No
		re is greater than 0.2 feet.	Yes	No
	s not a scour pool belov		Yes	No
6. The rat	io of the structure widt	h to stream bankfull width is greater than 0.5.	Yes	No
7. 🗖 The	structure is longer than	30 feet and has natural substrate through its	entire length, or	
The	structure is shorter tha	n 30 feet and has natural substrate through its	entire length, or Yes	No
		n 30 feet and does not have natural substrate t		

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN19

Stream Crossing Data Sheet				Site ID:	FAWA	22	<u></u>
General Information Name of Observer(s): Snull	((ter)	11		Date:	10/11	10	-111
GPS Waypoint: Additional Location Comments:		_	GPS Lat/Long:				
Road Information	ë		4.		10 11 -		
Road Name/Number: Balk							
Road Type: Federal State County	Town	1	ribal P	Private Other:			
Road Surface: Paved Gravel Sand	Nativ	/e Surfa	ce	Other:			
Road Width (ft): 24 Fill Depth (ft):	1-2	-					
Crossing Information				Œ			
Structure Type: Culvert(s) no.: / Bridge	Ford		Dam Otl	her: Structui	re ID:		
Structure Shape Structure Material			tructure	Structure Condition			
Round Metal	Mon	à	Sand		lew 8000	Fair	Poor
Square/Rectangle Concrete	Grav), ty	Rock		let Outle		Pipe
Open Bottom Square/Rectangle Plastic	0101	Mixt	, , , , , , , , , , , , , , , , , , ,	Crushed % Inl			Pipe
		(141)	urc	Rusted Through?	Yes	No	
Ctturn	Interior			Inlet Type		et Type	
Con- and	or Cor	rugated	P	Projecting Mitered	At stream g		
Structure Water Velocity (ft/sec): 2.8	0, 50,	10801		Headwall Apron	Cascade ove		>
		tlat	07	-			
Structure Water Depth (ft): inlet /- D		outlet	0.7	Wingwall 10-30° or 30-70°	Freefall into		
Structure Length (ft): 37		-4	,	Trashrack	Freefall onto	o riprap	
Structure Width (ft): ¹ 6 Structure			6	Other	Outlet apro	n	
Perch Height (ft): 1,2 Height of	Head (ft): 1, 2	and.		Other		
Buried Depth of Structure (ft): ¹ inlet		outlet	-	<u></u>			
Stream Information				the state of the state of	- 4		
Stream Name: Nye Dia in			Stream Wa	ater Velocity (in riffle) (ft/s	sec): /-	. 2	
Stream Flow: None < 1/2 Bankfull < Bankfull	= Bankfi	uli s	Bankfull				
Water Depth (in riffle) (ft): 0-8 Bankfull W				Chungan Midth fin a	.:£61_\ £4.	8	
Scour Pool Length, Width & Depth (ft): 22/							
Fish Passage Information	20, 51.35	SIL	7014	5.5 - 15.5 93.5 mm		(Line	BRID
Is the structure perched?	Yes	No	Is there por	nding upstream?		Yes	NO
Is there a scour pool at the outlet?	Yes	No	Is the struct	ture fully backwatered?		Yes	(No)
Is there substrate through the structure's entire length	? Yes	NB)		nange in head from the ups instream side?	tream	(Yes	No
Does the structure substrate match the stream substrate?	Yes	No		ture narrower than the ban	kfull	(Tes)	No

Yes

Yes

No

No

Is there debris blocking the inlet?

Is there evidence of overtopping or wash-outs?

No

No

Yes

substrate?

stream?

Is water in the structure moving faster than in the

Is water in the structure shallower than in the stream?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Phot	os				2 8 19
□ Si	te ID	☐ Inlet	Outlet		
□ Ro	oad Approach – Left	☐ Road Approach — Right			
□ U _I	ostream Conditions	☐ Downstream Conditions			
Fis	h Passage Determii	nation			
		ne "passability" for a range of fish species. Thro r species. Answer all questions.	esholds may need to be modifie	d if the obje	ective is
Pass	ability = 0	Mos	t species and life stages cannot	pass at mo	st flows.
If an	y of the following questions ca	n be answered "yes", then the crossing barrier	score = 0.		
1.	The outlet of the structure is p	erched.	7	Yes	No
2.	The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
3.	The ratio of the structure wate	er depth to stream water depth is less than 0.1.		Yes	No
	cture water depth:	- TOSC	Depth Ratio:		
BITT	There is a market and the second	Some sp	pecies and/or life stages cannot	nace at mo	et flows
	domity - 0.5	The second secon		pass at mo	36 110 1131
		n be answered "yes", then the crossing barrier	Score - 0.3.	Yes	No
	The water depth in the structu			Vac	No
		2-3 feet/second during baseflow.	ugh its optive length	Vos	No
3.	The structure is longer than 30	feet and does not have natural substrate thro	ugn its entire length.	(les	140
Pass	ability = 0.9			arrier at hig	gh flows.
		n be answered "yes", then the crossing barrier	score = 0.9.		
	There is a scour pool below the			Yes	No
2.	The ratio of the structure widt	h to stream bankfull width is less than 0.5.		Yes	No
	cture width:	Stream bankfull width:	Constriction Ratio:		
Dace	ability = 1			Not a	a barrier.
		be answered "yes", then the crossing barrier	score = 1.	The second second	
	The outlet of the structure is n			Yes	No
		less than 2 feet/second during baseflow.		Yes	No
3.	The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Yes	No
	The water depth in the structu			Yes	No
	There is not a scour pool belov			Yes	No
		h to stream bankfull width is greater than 0.5.		Yes	No
7.	The structure is longer than	30 feet and has natural substrate through its	entire length, or		
<i>/</i> .	The structure is shorter that	n 30 feet and has natural substrate through its	entire length, or	Yes	No
	The structure is shorter than	n 30 feet and does not have natural substrate t	through its entire length.		
	THE STRUCTURE IS SHOLLED THAT	1 30 feet and does not have natural substitute i			

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN22-DOWNSTREAM



UPSTREAM



ROAD

Site ID: FAWN 23 Stream Crossing Data Sheet General Information Name of Date: 10/11/10 Observer(s): Lat/Long: **GPS Waypoint: Additional Location** Comments: Road Information Road Name/Number: Other: Road Type: **Federal** State County Town Tribal Private Paved Sand Native Surface Other: **Road Surface:** Gravel Fill Depth (ft): Road Width (ft): **Crossing Information** Culvert(s) no.: / Bridge Ford Dam Structure ID: Structure Type: Structure Shape Structure Material **Substrate in Structure** Structure Condition **General Condition:** Round Metal None New Good Fair Poor Plugged: Inlet In Pipe Outlet Gravel Rock Square/Rectangle Concrete Crushed 15 Outlet -In Pipe Inlet Open Bottom Square/Rectangle Mixture Plastic **Rusted Through?** (No Yes Wood Pipe Arch Structure Interior **inlet Type Outlet Type** Open Bottom Arch Smooth or Corrugated Mitered At stream grade Projecting Ellipse Structure Water Velocity (ft/sec): 1 Headwall Apron Cascade over riprap inlet O. 8 outlet Structure Water Depth (ft):1 Wingwall 10-30° or 30-70° Freefall into pool. 78 Structure Length (ft):1 Freefall onto riprap Trashrack Structure Height (ft): 5.5 Structure Width (ft):1 Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1,2 Other Buried Depth of Structure (ft):1 inlet Stream Information Nye Digin Stream Water Velocity (in riffle) (ft/sec): **Stream Name:** > Bankfull < Bankfull = Bankfull Stream Flow: None < 1/2 Bankfull /2 Stream Width (in riffle) ft: Bankfull Width (in riffle) (ft): Water Depth (in riffle) (ft): 0.7 Upstream Pond Length & Width (ft): 2 Scour Pool Length, Width & Depth (ft):2 Fish Passage Information Yes (NO) Is there ponding upstream? Yes No Is the structure perched? 446 Yes Yes Is the structure fully backwatered? Is there a scour pool at the outlet? No Is there a change in head from the upstream Nø Nø Yes Is there substrate through the structure's entire length? Yes side to downstream side?

No.

No

No

stream width?

Yes

Yes

Is the structure narrower than the bankfull

Is there evidence of overtopping or wash-outs?

Is there debris blocking the inlet?

Yes

Yes

Yes (

No

No

Does the structure substrate match the stream

Is water in the structure moving faster than in the

Is water in the structure shallower than in the stream?

substrate?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

_	Solin Park Inches	A STANDARD TO STANDARD AND THE STANDARD	1-1-1-10 DE 1970 SAUSTE -		
☐ Site I	D	☐ Inlet	Outlet		
□ Road	Approach – Left	Road Approach – Right			
Upstr	eam Conditions	☐ Downstream Conditions			
Fish	Passage Determii	nation			
		ine "passability" for a range of fish species. Thre r species. Answer all questions.	esholds may need to be modified	if the obje	ctive is
Passabi	lity = 0	Mos	t species and life stages cannot (pass at mos	st flows
		an be answered "yes", then the crossing barrier			
	outlet of the structure is p			Yes	No
		greater than 3 feet/second during baseflow.		Yes	No
3. The	ratio of the structure wate	er depth to stream water depth is less than 0.1.		Yes	No
	re water depth:	Stream water depth:	Depth Ratio:		
Passabi	lity = 0.5	Some sp	ecies and/or life stages cannot i	pass at mos	st flows
		an be answered "yes", then the crossing barrier	score = 0.5.		
1. The	water depth in the structu	ire is less than 0.2 feet.		Yes	No
		2-3 feet/second during baseflow.		Yes	No
3. The	e structure is longer than 30) feet and does not have natural substrate thro	ugh its entire length.	Yes	No
Passabi	lity = 0.9	White the second second second second	Ba	arrier at hig	h flows
If any o	f the following questions ca	an be answered "yes", then the crossing barrier	score = 0.9.		
	ere is a scour pool below the			Yes	No
		th to stream bankfull width is less than 0.5.		Yes	No
	re width:	Stream bankfull width:	Constriction Ratio:		
Passabi	lity = 1			Not a	barrier
If all of	the following questions can	be answered "yes", then the crossing barrier s	score = 1.		
	outlet of the structure is n			Yes	No
2. The	structure water velocity is	less than 2 feet/second during baseflow.		Yes	No
3. The	ratio of the structure wate	er depth to stream water depth is greater than	0.1.	Yes	No
	water depth in the structu			Yes	No
	ere is not a scour pool belov			Yes	No
		th to stream bankfull width is greater than 0.5.		Yes	No
7.	The structure is longer than	30 feet and has natural substrate through its e	entire length, or		
	The structure is shorter tha	n 30 feet and has natural substrate through its	entire length, or	Yes	No
<u> </u>	The structure is shorter tha	n 30 feet and does not have natural substrate t	hrough its entire length.		
		as a second second second second second	cárol a talve seu convelencio un	- 12 1-13	
Additio	nal Comments				

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN23-DOWNSTREAM



UPSTREAM



UPSTREAM

Stream Crossing Data Sheet				Site ID:	FAWI	V ±	5
General Information Name of Observer(s): Sna	-(, ' ₁₀ '') -2	¥°.		Date:	10/1	, //	ر ام
GPS Waypoint: Additional Location Comments:			GPS Lat/Long:				
Road Information	1	1 -					1.
Road Name/Number: Minton					-		
Road Type: Federal State	County Town	٦	ribal Pri	vate Other:			
Road Surface: Paved Gravel	Sand Nativ	e Surfa	ice	Other:			
Road Width (ft): 2] Fill Depth	(ft):	_					
Crossing Information			80 N =	11,800 PG 117 E			
Structure Type: Culvert(s) no.:	Bridge Ford		Dam Othe	er: Structui	re ID:		
Structure Shape Structure N	Material Substra	ate in S	tructure	Structure Condition			
Hound Met	al Non		Sand	General Condition:	lew Good	Fair	Poor
Square/Rectangle Concre	ete Grav	rel 571	Rock	Plugged: 5 % (n	e Outle	t In	Pipe
Open Bottom Square/Rectangle Plast	iic	Mixt	ure	Crushed % Ini	et Outlet	t In	Pipe
Pipe Arch Woo	od			Rusted Through?	Yes	N	0
·	Structure Interior			Inlet Type	Outle	t Type	2
Ellipse	Smooth of Cor	rugate	\supset	Projecting Mitered	At stream gr	ade	
Structure Water Velocity (ft/sec): 1	,			Headwall Apron	Cascade ove	r riprap	
	0-7	outlet	0.4	Wingwall 10-30° or 30-70°	Freefall into	pool.	
C.J.				Trashrack	Freefall onto		
Structure Length (it).		c. \ 1	954 30				
Structure Width (ft):1 2930				Other	Outlet apror	1	
	Height of Head (ft): 1, 2			Other		
Buried Depth of Structure (ft): inlet	0.2	outlet		4			
Stream Information	SHOP TO GO		1414134	A PROPERTY OF THE PARTY OF	1		Mai
Stream Name: Nane.			Stream Wat	er Velocity (in riffle) (ft/	sec):		
	 ankfull = Bankf		> Bankfull				
				d			
Water Depth (in riffle) (ft): 0 - 2 B	sankfull Width (in i	riffle) (1	t):	Stream Width (in	riffle) ft:		
Scour Pool Length, Width & Depth (ft):2	ement 1		Upstream	Pond Length & Width (ft)): 2		
Fish Passage Information	1150 - 1240		Value of the last		is B		
Is the structure perched?	Yes Yes	No		ling upstream? Ire fully backwatered?		Yes Yes	No.
Is there a scour pool at the outlet?		-		ange in head from the ups	tream	Yes	Ñ
Is there substrate through the structure's ent		MB	side to down	stream side?		_	IVC
Does the structure substrate match the stream	m Yes	No	Is the structu stream width	re narrower than the ban	KTUII	Yes	No
substrate? Is water in the structure moving faster than in	the Yes	No		is blocking the inlet?		Yes	Ne
stream?		1			sh cutc?	Yes	ONG
Is water in the structure shallower than in the	e stream? Yes	(No	is there evide	ence of overtopping or wa	isn-outs?	162	CN

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Date in	D toles	☐ Outlet		
☐ Site ID	☐ Inlet	_		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determin	ation			
Follow these guidelines to determine	ne "passability" for a range of fish species. Thre	esholds may need to be modif	ied if the obje	ective is
to evaluate passage for a particular	species. Answer all questions.			
Passability = 0		t species and life stages canno	ot pass at mo	st flows
	n be answered "yes", then the crossing barrier	score = 0.		
1. The outlet of the structure is p			Yes	No
	greater than 3 feet/second during baseflow.		Yes	No
3. The ratio of the structure water	r depth to stream water depth is less than 0.1.		Yes	No
Structure water depth:	Stream water depth:	Depth Ratio	:	
	WASH DIACONOUNCERNISHED	THE WITH SOME OF THE TRUE OF STREET		at flaire
Passability = 0.5		ecies and/or life stages canno	ot pass at mo	ST HOWS
	n be answered "yes", then the crossing barrier	score = 0.5.	1992	N.
 The water depth in the structu 			Yes	No
	2-3 feet/second during baseflow.		Yes	No
3. The structure is longer than 30	feet and does not have natural substrate through	ugh its entire length.	Yes	No
Passability = 0.9			Barrier at hig	gh flows
If any of the following questions car	n be answered "yes", then the crossing barrier	score = 0.9.		
1. There is a scour pool below the	e structure.		Yes	No
2. The ratio of the structure widtl	n to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio	:	
Passability = 1			Not a	barrier
If all of the following questions can	be answered "yes", then the crossing barrier s	core = 1.		
1. The outlet of the structure is n			Yes	No
2. The structure water velocity is	less than 2 feet/second during baseflow.		Yes	No
3. The ratio of the structure water	r depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the structu			Yes	No
5. There is not a scour pool below			Yes	No
J. Micro is not a scour poor below			Yes	No
6. The ratio of the structure widtl	I to stream bankinii mintii is Breater tiian o.s.			
6. The ratio of the structure widtl	30 feet and has natural substrate through its e	entire length, or		
6. The ratio of the structure widtle7. ☐ The structure is longer than	30 feet and has natural substrate through its en 30 feet and has natural substrate through its	entire length, or entire length, or	Yes	No

Culvert diagram, erosion, channel condition, evidence of wash-out, beaver, local testimony of frequency of overtopping...

Additional Comments

¹Fill out for primary culvert (culvert #1), If multiple culverts are used, see reverse.

²Fill out, if present.



FAWN5-DOWNSTREAM



UPSTRREAM



tream Crossing Data Sheet

Is water in the structure shallower than in the stream?

Site ID: LCN1

General Information					181		- 4
Name of Observer(s):				Date:	08/05	110	
Observer(s).			GPS				
GPS Waypoint:			Lat/Long:				
Additional Location Comments:							
Road Information		0	V I	()			
Road Name/Number: Hillandale / 4.1	5	(1-	ipps Ho	(wolls			
Road Type: Federal State County	Town	1	ribal Pi	rivate Other:			
Road Surface: Payed Gravel Sand	Nativ	e :Surfa	ice	Other:			
Road Width (ft): Fill Depth (ft):	5						
Catalan Information			r.	- 7			
Crossing Information	Found			ner: Structui	o ID:		
Structure Type: Culvert(s) no.: / Bridge	Ford				e iD:		
	_	_	tructure	Structure Condition			
Round	None	2)	Sand		lew Good) F		Poor
Square/Rectangle Concrete	Grav	el	Rock		let Outlet	In P	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % Inl	et Outlet	In P	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No	
Open Bottom Arch Structure In	nterior			Inlet Type	Outlet '	Туре	
Ellipse Smooth of	or Cor	rugate	3	Projecting Mitered	At stream grad	le	
Structure Water Velocity (ft/sec): 1				Headwall Apron	Cascade over r	iprap	
Structure Water Depth (ft): inlet	o	utlet	2.15	Wingwall 10-30° or 30-70°	Freefall into po	ool.	
Structure Length (ft): 1				Trashrack	Freefall onto ri		
	la:ala# /i	£4\. ¹				.pp	
Structure Width (ft): ¹ Structure H				Other	Outlet apron		
Perch Height (ft): 1,2 Height of H	lead (ft)): -, -			Other		-
Buried Depth of Structure (ft): inlet		outlet		_			
Stream Information							
Stream Name:			Stream Wa	ater Velocity (in riffle) (ft/	sec): 1.0		
Stream Flow: None <1/2 Bankfull < Bankfull =	= Bankfı	ull	> Bankfull				
Water Depth (in riffle) (ft): Bankfull Wid	ith (in r	iffle) (ft):	2/ Stream Width (in	riffle) ft:	?	
Scour Pool Length, Width & Depth (ft): ²	· ,	Carrow .	Unstream	n Pond Length & Width (ft); ²		
Scour Pool Length, Wiath & Depth (It):				zengen er eriem (re			
Fish Passage Information	Yes		1 11	ر مسمور در در ایال در ا	T	Yes	No
Is the structure perched?	1	No	-	iding upstream?		Yes	No
Is there a scour pool at the outlet?	Yes	No		ure fully backwatered?		162	_ IAA
Is there substrate through the structure's entire length?	Yes	No		nange in head from the ups nstream side?	ou calli	Yes	No
Does the structure substrate match the stream substrate?	Yes	No	Is the struct stream widt	ure narrower than the bar th?	nkfull	Yes	No
Is water in the structure moving faster than in the	Yes	No	Is there deb	oris blocking the inlet?		Yes	No

Is there evidence of overtopping or wash-outs?

Yes

No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Phote	os	_1814	11.0		
⊒ Sit	e ID	☐ Inlet	☐ Outlet		
⊒ Ro	oad Approach – Left	☐ Road Approach — Right			
	ostream Conditions	☐ Downstream Conditions			
Fis	h Passage Determi	nation			
	_	ine "passability" for a range of fish species. Thre	esholds may need to be modifie	d if the obje	ctive is
		r species. Answer all questions.			
Pass	ability = 0	Mos	t species and life stages cannot	pass at mo	st flows.
		an be answered "yes", then the crossing barrier	•		
	The outlet of the structure is p			Yes	No
		s greater than 3 feet/second during baseflow.		Yes	No
3.	The ratio of the structure wat	er depth to stream water depth is less than 0.1.		Yes	No
		Stream water depth:	Depth Ratio:		
Dass	ability = 0.5	Some sr	pecies and/or life stageš:cannot	bass at mo	st flows.
If an	v of the following questions of	an be answered "yes", then the crossing barrier		F	
	The water depth in the struct			Yes	No
		s 2-3 feet/second during baseflow.		Yes	No
3.	The structure is longer than 3	0 feet and does not have natural substrate thro	ough its entire length.	Yes	No
Docc	ability = 0.9		. 8	arrier at hig	th flows.
If an	y of the following questions c	an be answered "yes", then the crossing barrier			•
	There is a scour pool below th			Yes	No
2.	The ratio of the structure wid	th to stream bankfull width is less than 0.5.		Yes	No
	cture width:	Stream bankfull width:	Constriction Ratio:		
D	- latter - d			Not a	a barrier.
Pass	ability = 1	n be answered "yes", then the crossing barrier	score = 1		
	The outlet of the structure is		30016 1.	Yes	No
1.	The outlet of the structure is	s less than 2 feet/second during baseflow.		Yes	No
2.	The structure water velocity i	er depth to stream water depth is greater than	0.1	Yes	No
			0121	Yes	No
	The water depth in the struct			Yes	No
5.	The ratio of the structure wid	th to structure. th to stream bankfull width is greater than 0.5.		Yes	No
6.	The structure is larger than	n 30 feet and has natural substrate through its	entire length, or		
7.	The structure is shorter the	an 30 feet and has natural substrate through its	entire length or	Yes	No
	Ine structure is shorter that	an 30 feet and has natural substrate through its an 30 feet and does not have natural substrate	through its entire length		
	ine structure is snorter tha	an 50 feet and does not have natural substrate	anough to chare length.		
الم الم	itional Comments		4		
		condition evidence of wash-out heaver local	testimony of frequency of over	opping	

3'Steps' in colvert. 8.2' drag Cold water Lods of figh in some Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.



LCN1- UPSTREAM



DOWNSTREAM

Stream Cross	sing Dat	a Sheet				Site ID:	Lov	2	
General Information	n							LCN	2
Name of		1					08/05	2	
Observer(s):	-5 Not	/			GPS	Date:	28/05	5	
GPS Waypoint:					Lat/Long:				
Additional Location									
Comments:	-								_
Road Information	:								
Road Name/Numbe	er:	Tapar							
Road Type:	Federal	State County	Town	٦	ribal Pri	vate Other:			
Road Surface:	Paved	Gravel Sand	Nativ	ve Surfa	ice	Other:			
Road Width (ft):		Fill Depth (ft):	5						
Crossing Informatio	en								
Structure Type:	Culvert(s)	no.: Z Bridge	Ford		Dam Othe	er:Structui	re ID:		
Structure Shape		Structure Material	Substr	ate in S	tructure	Structure Condition			
Round		Metal	Non	e	Sand	General Condition:	New Good	Fair 🤇	Poor
Square/Rectangle		Concrete	Grav	vel	Rock	Plugged: 40 %	let Outle	t) (1ñ	Pipe
Open Bottom Square/Red	ctangle	Plastic		\Mix	ture', '	Crushed % Inl	let Outle	t In	Pipe
Pipe Arch		Wood			m, 3 m	Rusted Through?	Yes	No	0
Open Bottom Arch		Structure in	nterior			Inlet Type	Outle	et Type	
Ellipse		Smooth	or Cor	rugate	d	Projecting Mitered	At stream gr	ade	
Structure Water Vel	locity (ft/sec):¹		_		Headwall Apron	Cascade ove	r riprap	
Structure Water De	pth (ft): 1	inlet		outlet	0.8	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft	:): ¹	60				Trashrack	Freefall onto	o riprap	
Structure Width (ft)): ¹	Structure H	leight (ft): 1	2.8	Other	Outlet apror	n	
Perch Height (ft): 1,2		Height of H	lead (ft): ^{1, 2}			Other		
Buried Depth of Str		inlet			1.2	L.			
						•			
Stream Information	,	c. k					、		
Stream Name:	_ Love	Creek			Stream Wat	er Velocity (in riffle) (ft/	sec):		_
Stream Flow: No	ne <1/2 Ba	nkfull < Bankfull =	= Bankf	ull	> Bankfull				
Water Depth (in riff	ile) (ft):	0, 2 Bankfull Wid	ith (in i	riffle) (1	t): <u>20</u>	Stream Width (in	riffle) ft:	2.	
Scour Pool Length, \	Width & Dep	th (ft): ² /	1		Upstream	Pond Length & Width (ft)): ²		
Fish Passage Inform	ation								
Is the structure perc			Yes	ONO	Is there pond	ling upstream?		Yes	No
Is there a scour pool		t?	Yes	No		re fully backwatered?		Yes)	No
		ructure's entire length?	Yes	No	Is there a cha	nnge in head from the ups	tream	Yes	No
Does the structure s			1	NI.	-	stream sider re narrower than the ban	kfuli	-172	Al-
substrate?			Yes	No	stream width			Yes	No
Is water in the struct stream?	ture moving	faster than in the	Yes	No	Is there debr	is blocking the inlet?		Yes	No
	ture shallow	er than in the stream?	Yes	No	Is there evide	ence of overtopping or wa	sh-outs?	Yes	₹No

LCNZ

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2	4	2.8	60
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Pho	otos					
	Site ID	☐ Inlet	□ Ou	tlet		
- F	Road Approach – Left	☐ Road Approach — Right				
	Jpstream Conditions	☐ Downstream Conditions				
	opstream conditions	a bownstream conditions	.			
Fi	sh Passage Determi	nation				
		ine "passability" for a range of fish sport species. Answer all questions.	ecies. Thresholds may ne	eed to be modified	l if the obje	ctive is
Pas	ssability = 0		Most species and l	ife stages cannot :	pass at mos	st flows.
If a	my of the following questions ca	an be answered "yes", then the crossi			1	
1.	The outlet of the structure is I	perched.			Yes	No
2.	The structure water velocity is	s greater than 3 feet/second during ba	aseflow.		Yes	No
3.	The ratio of the structure wat	er depth to stream water depth is less	s than 0.1.		Yes	No
Str	ucture water depth:	Stream water depth:		Depth Ratio:		
Pas	ssability = 0.5		Some species and/or li	ife stages cannot	oass at mos	at flows.
	-	an be answered "yes", then the crossi				,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.	The water depth in the structi	-			Yes	No
2.		s 2-3 feet/second during baseflow.			Yes	No
3.	•	0 feet and does not have natural subs	trate through its entire l	ength.	Yes	No
Dad	ssability = 0.9			R=	ırrier at higi	h flows
		an be answered "yes", then the crossi	ng harrier score = 0.9	D6	inter at mg	II IIQVI.
	There is a scour pool below th	•	ing barrier score - 0.5.		Yes	No
	=	th to stream bankfull width is less tha	n 0.5.		Yes	No
	ucture width:	Stream bankfull width:		nstriction Ratio:	2:4	
	sability = 1	- All III			Not a	barrier.
	= -	n be answered "yes", then the crossing	g barrier score = 1.			
	The outlet of the structure is r	•	1		Yes	No
		s less than 2 feet/second during basef			Yes	No
_		er depth to stream water depth is gre	ater than 0.1.		Yes	No No
4. -	The water depth in the structu	_			Yes	No No
5. c	There is not a scour pool below		than O E		Yes	No No
6. 7.		th to stream bankfull width is greater n 30 feet and has natural substrate the		r	Yes	No
/.		in 30 feet and has natural substrate th			Yes	No
		in 30 feet and does not have natural s	-		163	140
			_	_		
	ditional Comments		1 1	_		
Cul	vert diagram, erosion, channel	condition, evidence of wash-out, bear	ver, local testimony of fr	equency of overto	pping	

plugged in lets warn water, sittlety

Corrent passebolity mear a needs district comment

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LCN2-UPSTREAM



DOWNSTREAM

Stream Cross	sing Da	ta Sneet				Site I			
General Information	n.		- 25		en karata j			L	(N
Name of		11						1-1	
Observer(s):	Sna 1	/				Date:	08/8	15/10	2
CDC Wayne -!					GPS		50	140	
GPS Waypoint: Additional Location			_		Lat/Long:				-
Comments:									
comments.									
Road Information									
Road Name/Numbe	er:	Hartman				_,			
Road Type:	Federal	State County	Town		Tribal	Private Other:			
Road Surface:	Paved	Gravel Sand	Nati	ve Surf	ace	Other:			
Road Width (ft):	21	Fill Depth (ft):	4						
Crossing Informatio	n e			Elijan.					
Structure Type:	Culvert(s)) no.:/_ Bridge	Ford		Dam C	Other: Struc	ture ID:		
Structure Shape			Substr	ate in S	Structure	Structure Condition			
Round		(Metal)	Nor	ne	Sand	General Condition:	New Good	Fair	Poo
Square/Rectangle		Concrete	Gra	vel	Rock	Plugged: %	Inlet Outle	e t In	ı Pipe
Open Bottom Square/Red	ctangle ့	Plastic		Mix	ture	Crushed %	Inlet Outle	et In	Pipe
Pipe Arch		Wood				Rusted Through?	Yes	N	0
Open Bottom Arch		Structure la	nterior			Inlet Type	Outle	et Type	9
Ellipse		Smooth	or Co	rrugate)d	Projecting Mitered	At stream g	rade	
Structure Water Vel	locity (ft/sec	c): ¹				Headwall Apron	Cascade ove	er riprap	
Structure Water De		inlet 0.2		outlet	0.75	Wingwall 10-30° or 30-70	° Freefall into	o pool.	
Structure Length (ft)): ¹	66				Trashrack	Freefall ont	o riprap	
Structure Width (ft)): ¹		leight ((ft): 1	4	Other	Outlet apro	ın	
Perch Height (ft): ^{1, 2}	-	Height of H					Other		
					-		Other		
Buried Depth of Stru	ucture (ft):	inlet);	outlet	-	-			
Stream Information						使用为 的数据数据		1300	
Stream Name:	Love	Creek			Stream V	Vater Velocity (in riffle) (f	t/sec):	0.8	
Stream Flow: No			= Bankf	ull	> Bankfull				
Water Depth (in riff	le) (ft):	0.2 Bankfull Wid	dth (in i	riffle) (ft):	Stream Width (i	n riffle) ft:	Z	
Scour Pool Length, V	Nidth & Der	oth (ft):2	/		Upstrea	ım Pond Length & Width (ft): ²	-	
ish Passage Inform	and the second second second	SSSTOK EN ASTAUL SOO	3.30/9			salite te figure i i i i i i i i i i i		11,1208	45
s the structure perc			Yes	NO	Is there no	onding upstream?		Yes	Ń
there a scour pool		 et?	Yes	No		cture fully backwatered?		Yes	
		ructure's entire length?	Yes	No	Is there a	change in head from the u wnstream side?	pstream	Yes	N
Does the structure s	ubstrate ma	tch the stream				wnstream side? cture narrower than the ba	ankfull	14573	
ubstrate?			Yes	No	stream wi			Yes	N
s water in the struct	ture moving	faster than in the	Yes	No	Is there de	ebris blocking the inlet?		Yes	N
tream? s water in the struct	ture shallow	er than in the stream?	Yes	No.		vidence of overtopping or v	wash-outs?	Yes	
S MARCE III LISE SCIUCL	.uic silalluwi	er man me sueam!	162	INO	In micre 6A	ractice of overtobbillig of a	Agon Onto!	1.52	الالسا

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	☐ Outlet		
☐ Road Approach – Left	☐ Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determination	1			
Follow these guidelines to determine "pass to evaluate passage for a particular species	ability" for a range of fish species. Thr . Answer all questions.	resholds may need to be modifie	d if the ob	jective is
Passability = 0	Mos	st species and life stages cannot	nass at m	ost flows
If any of the following questions can be ans	wered "yes", then the crossing barries	r score = 0.	poss at 111	OSE HOWS.
1. The outlet of the structure is perched.			Yes	No
2. The structure water velocity is greater	than 3 feet/second during baseflow.		Yes	No
3. The ratio of the structure water depth			Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:		
Passability = 0.5 If any of the following questions can be ans	Some sp	pecies and/or life stages cannot	pass at m	ost flows.
1. The water depth in the structure is less	than 0.2 feet.	score - 0.5.	Yes	√N6
2. The structure water velocity is 2-3 feet/	second during baseflow.		Yes	(No
3. The structure is longer than 30 feet and	does not have natural substrate thro	ough its entire length.	Yes	N 6
				90
Passability = 0.9 If any of the following questions are by		Bá	rrier at hi	gh flows.
If any of the following questions can be answ 1. There is a scour pool below the structure	wered "yes", then the crossing barrier	score = 0.9.		_
2. The ratio of the structure, width to street	e. Im bankfull width is loss than 0.5		Yes	Nø
	Stream bankfull width:	Constriction Ratio:	Yes	(NO)
		Constriction Ratio:		
Passability = 1			Not .	a barrier.
If all of the following questions can be answ	ered "yes", then the crossing barrier s	core = 1.	1406	a Darrier.
1. The outlet of the structure is not perche	ed.		Yes	No
ting!	2 feet/second during baseflow.		Yes	No
the contractance water acptiful	o stream water depth is greater than (0.1.	Yes	No
 The water depth in the structure is grea There is not a scour pool below the structure 	ter than 0.2 feet.	·	YES	No
5. The ratio of the structure width to struct	cture.		Ves	No
 The ratio of the structure width to strea The structure is longer than 30 feet a The structure is shorter than 30 feet 	m bankfull width is greater than 0.5.		Yes	No
- The structure is shorter than so feet a	ind has natural substrate through it	. (* 1 .)		
☐ The structure is shorter than 30 feet a	and does not have natural substrate th	entire length, or Prough its entire length.	Yes	No
Additional Comments				
Culvert diagram, erosion, channel condition,	evidence of wash-out, beaver, local to	ostimony of f		
Thellow water is midelle	1 1 1 12/6	estimony of frequency of overtor	ping	
, modite	of tulburi. 10 end	has Harrow, flowin	1 2 481	111 2/5
Shallow water in medolle end is dreaded + sorted harming out for primary culvert (culvert #1). If multiple culvert	Mrs. h. 1.	1 /	Cileen	013
	914 way monny currer	· Jedin T 150005	on a	200
Fill out for primary culvert (culvert #1). If multiple culv	914 Way Many Colver	. Jediment bisues	on of	proaches



LCN3-UPSTREAM



DOWNSTREAM

eam Crossing Data Sheet

Is water in the structure shallower than in the stream?

≥am Crossing Data Sheet				Site ID:	LOV-F	,	
వeneral Information					L	< N 4	4
Name of							
Observer(s): 5 ne//	7		GPS	Date:	-		
GPS Waypoint:			Lat/Long:				
Additional Location Comments:							
Road Information							
Road Name/Number: Pigestone							
Road Type: Federal State County	Town	Т	ribal Pri	ivate Other:			
Road Surface: Paved Gravel Sand	Nativ	e Surfa	ce	Other:			
Road Width (ft): Z / Fill Depth (ft):		=					
Crossing Information							
Structure Type: Culvert(s) no.: Bridge	Ford	C	Dam Othe	er: Structur	e ID:		
Structure Shape Structure Material	Substra	te in S	ructure	Structure Condition			
Round Metal	None	:	Sand	General Condition: N	lew Good	Fair	Poor
Square/Rectangle Concrete	Grav	el	Rock	Plugged: % Inle	et Outlet	: In	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % Inle	et Outlet	ln	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No	
Open Bottom Arch Structure In	iterior			Inlet Type	Outle	t Type	
Ellipse Smooth o	or Cori	rugated	1	Projecting Mitered	At stream gra	ade	
Structure Water Velocity (ft/sec):				Headwall Apron	Cascade over	riprap	
Structure Water Depth (ft): inlet 0.2	0	utlet	04	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft): 44				Trashrack	Freefall onto	riprap	
Structure Width (ft): ¹ /O Structure H	eight (f	t): 1	7	Other	Outlet apron		
Perch Height (ft): 1, 2 Height of He	ead (ft)	:1,2			Other		
Buried Depth of Structure (ft): inlet	0	utlet		-			
Stream Information							
Stream Name: Love Cruk			Stream Wat	ter Velocity (in riffle) (ft/s	sec):		
Stream Flow: None	: Bankfu	: الد	Bankfull				
Water Depth (in riffle) (ft):	ith (in r	iffle) (f	t): <u>/</u> 0	Stream Width (in r	riffle) ft:	2	
Scour Pool Length, Width & Depth (ft): ² /	1		Upstream	Pond Length & Width (ft)	:2		
Fish Passage Information						V-	1000
Is the structure perched?	Yes	(NG)		ding upstream? ure fully backwatered?		Yes_ Yes	No
Is there a scour pool at the outlet?	Yes	No	Is there a cha	ange in head from the ups	tream	Yes	No
Is there substrate through the structure's entire length?	TES	INO		stream side?	Lfull	, 03	
Does the structure substrate match the stream substrate?	Yes	No	stream width	ure narrower than the ban h?	KIUII	Yes	No
Is water in the structure moving faster than in the	Yes	No		ris blocking the inlet?		Yes	₩,
stream? Is water in the structure shallower than in the stream?	Yes	No	Is there evide	ence of overtopping or wa	sh-outs?	Yes	NO

LOVE

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)	Culvert #	Widt
2				4	
3				5	

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	☐ Outlet		
☐ Road Approach — Left	Road Approach – Right			
Upstream Conditions	☐ Downstream Conditions	٥		
Fish Passage Determi	nation			
Follow these guidelines to determ to evaluate passage for a particular	ine "passability" for a range of fish species. Thr	resholds may need to be modified	d if the obje	ective is
		ot an arise and life stages as most		at flavor
Passability = 0	wos an be answered "yes", then the crossing barriel	st species and life stages cannot	pass at mo	st nows.
1. The outlet of the structure is		i score – o.	Yes	No
	s greater than 3 feet/second during baseflow.		Yes	No
=	er depth to stream water depth is less than 0.1	L.	Yes	No
Structure water depth:	•	Depth Ratio:		
		1		_
Passability = 0.5		pecies and/or life stages cannot	pass at mo	st flows.
	an be answered "yes", then the crossing barrie	r score = U.5.	Yes	No
1. The water depth in the struct			Yes	No
	s 2-3 feet/second during baseflow. O feet and does not have natural substrate thro	ough its entire length	Yes	No
3. The structure is longer than 3	o leet and does not have hatural substrate time	ough its cittle length.	103	
Passability = 0.9	Water the second of the second	В	arrier at hi	gh flows.
	an be answered "yes", then the crossing barrie	r score = 0.9.		
1. There is a scour pool below th			Yes	No
	th to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
			Bloke	a barrier.
Passability = 1	n be answered "yes", then the crossing barrier	score = 1	Mot	a parrier.
1. The outlet of the structure is		Score - 1.	Yes	No
	s less than 2 feet/second during baseflow.		Yes	No
3. The ratio of the structure wat	er depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the struct			Yes	No
5. There is not a scour pool belo			(Yes)	No
6. The ratio of the structure wid	th to stream bankfull width is greater than 0.5.		Yes	No
7. The structure is longer that	n 30 feet and has natural substrate through its	entire length, or		
	an 30 feet and has natural substrate through its		Yes)	No
The structure is shorter that	an 30 feet and does not have natural substrate	through its entire length.		

Additional Comments

 $^{^{1}\}mbox{Fill}$ out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LCN4

Stream Crossing Data Sheet				Site ID:	+
General Information					LCSZ
Name of					1 /
Observer(s): Snell & Marshall			GPS	Date:	9/16/10
GPS Waypoint:			Lat/Long:	yes	
Additional Location	1		4	× 1. 11	ii pin
Comments: Huchlebert Roa	0 -	0.7	miles sou	m of deans 111	1/ 1/.1/2
Road Information		1			
Road Name/Number: Huckic best 1	000	(
Road Type: Federal State County	Town	Т	ribal Pr	ivate Other:	
Road Surface: Paved Gravel Sand		e Surfa	ce	Other:	
calvot	2-12	1+	66	triple of the	d lergin
Crossing Information					
Structure Type: Culvert(s) no.: Bridge	Ford		Dam Oth	er: Structi	ıre ID:
Structure Shape Structure Material	Substra	te in S	tructure	Structure Condition	
Round	None		Sand	General Condition:	New Good Fair Poo
Square/Rectangle Concrete	Grav	el	Rock	Plugged: 🙆 %	nlet Outlet In Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed %	nlet Outlet In Pipe
Pipe Arch Wood				Rusted Through?	Yes No
Open Bottom Arch Structure In	terior			Inlet Type	Outlet Type
Ellipse	or Cor	rugate	d	Projecting Mitered	At stream grade
Structure Water Velocity (ft/sec): 1 10 Flow				Headwall Apron	Cascade over riprap
Structure Water Depth (ft): 1 C inlet	o	utlet		Wingwall 10-30° or 30-70°	Freefall into pool.
Structure Length (ft): 1				Trashrack	Freefall onto riprap
Structure Width (ft): ¹ 3 + Structure H	eight (1	ft): 1	3A	Other	Outlet apron
Perch Height (ft): 1,2 a q + b a pro Height of H					Other
Buried Depth of Structure (ft): inlet	0	utlet		_	
Stream Information				70 4	
Stream Name: Love Creek			Stream Wa	ter Velocity (in riffle) (fi	/sec):
Stream Flow: None < 1/2 Bankfull < Bankfull =	Bankfı	ull :	> Bankfull		
Water Depth (in riffle) (ft): Bankfull Wid	lth (in r	iffle) (1	ft):	Stream Width (in	riffle) ft:
Scour Pool Length, Width & Depth (ft): ² /			Upstream	Pond Length & Width (ft): ²
Fish Passage Information					11, -
Is the structure perched?	Yes	No		ding upstream?	Yes N
Is there a scour pool at the outlet?	Yes	(No		ure fully backwatered? ange in head from the u	Yes
Is there substrate through the structure's entire length?	Yes	(No	side to down	nstream side?	162 1
Does the structure substrate match the stream substrate?	Yes	No	Is the struct stream widt	ure narrower than the ba h?	ankfull Yes I
Is water in the structure moving faster than in the stream? Would be if flowing	Yes	No	Is there deb	ris blocking the inlet?	Yes
Is water in the structure shallower than in the stream?	Yes	No	Is there evid	ence of overtopping or v	vash-outs?
would be if flowing					N. C.

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)	
4				
5				Ī

Photos	THE RESIDENCE OF THE PARTY OF T			
☑ Site ID	☐ Inlet	☐ Outlet		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determin	nation			
Follow these guidelines to determi to evaluate passage for a particular	ne "passability" for a range of fish species. Thr r species. Answer all questions.	esholds may need to be modif	ied if the obje	ective is
Passability = 0	Ma	st species and life stages canno	nt nace at ma	et flows
	n be answered "yes", then the crossing barrie		n pass at illo	St HOWS.
1. The outlet of the structure is p		30010 = 0.	Yes	No
	greater than 3 feet/second during baseflow.		Yes	No
	er depth to stream water depth is less than 0.1		Yes	No
Structure water depth:	Stream water depth:	Depth Ratio		
-		-		
Passability = 0.5	Some s	pecies and/or life stages canno	ot pass at mo	st flows.
If any of the following questions ca	n be answered "yes", then the crossing barrie	r score = 0.5.		
1. The water depth in the structu	re is less than 0.2 feet.		Yes	No
2. The structure water velocity is	2-3 feet/second during baseflow.		Yes	No
3. The structure is longer than 30	feet and does not have natural substrate thro	ough its entire length.	Yes	No
Passability = 0.9			Barrier at hig	gh flows.
If any of the following questions ca	n be answered "yes", then the crossing barrie			
1. There is a scour pool below the	e structure.		Yes	No
2. The ratio of the structure widt	h to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio):	
Passability = 1	Ve action of the contract of t		Not a	barrier.
	be answered "yes", then the crossing barrier	score = 1	140,0	buillet.
1. The outlet of the structure is n		2010 21	Yes	No
	less than 2 feet/second during baseflow.		Yes	No
	r depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the structu			Yes	No
5. There is not a scour pool below			Yes	No
6. The ratio of the structure widtle	h to stream bankfull width is greater than 0.5.		Yes	No
	30 feet and has natural substrate through its	entire length, or		
	n 30 feet and has natural substrate through its		Yes	No
☐ The structure is shorter than	a 30 feet and does not have natural substrate	through its entire length.		
Additional Comments				
Culvert diagram, erosion, channel of	ondition, evidence of wash-out, beaver, local	testimony of frequency of over	topping	
extinsing cross on, to	res, tash	,	FF O	

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LCS2-DOWNSTREAM

Stream Crossing Data Sheet				Site ID:	4	3	
General Information			4 - H	- 15 -	1	LC5	3
Name of Observer(s): Shell & Marshall				Date:	9/16	0/11	7
			GPS	Date	-11'	711	
GPS Waypoint: Additional Location Comments:			tat/Long:	4		9	
Road Information	100			7- 6 -			
Road Name/Number:							
Road Type: Federal State County	Town		ribal Pi	rivate Other:			
Road Surface: Paved Gravel Sand	Nati	ve Surfa	ice	Other:			
Road Width (ft):	>		27 1				
Crossing Information			245	MAC			
Structure Type: Culvert(s) no.:	Ford		Dam Oth	er: Structu	re ID:		
Structure Shape Structure Material			tructure	Structure Condition			
Round Metal	Nor		Sand		New Good	Fair	Poor
Square/Rectangle Concrete	Gra		Rock		let Outl		n Pipe
Open Bottom Square/Rectangle Plastic	014	Mix			let Outle		ı Pipe
Pipe Arch Wood				Rusted Through?	Yes	(N	_
Open Bottom Arch Structure	Interior			Inlet Type		et Type	
Ellipse Smooth			4	Projecting Mitered	At stream g		
Structure Water Velocity (ft/sec): 1)0. 00.	Tagate	•	Headwall Apron	Cascade ov		
Structure Water Depth (ft): inlet hone		outlet		7		. ,	
Structure Length (ft): 54ft		butlet		Wingwall 10-30° of 30-70°	Freefall into		_
		1	777	Trashrack	Freefall ont		_
Structure Width (ft):1 Structure			3,5++	Other 45°	Outlet apro	on)	
Perch Height (ft): 1,2 O. 2 ft Height of	Head (ft	:): 1, 2			Other		n.
Buried Depth of Structure (ft): ¹ inlet		outlet		-	4501	200	/ Woo
Stream Information	3	^	· · · · · · · · · · · · · · · · · · ·		432		
Stream Name: Love (reel) 2) F	wide	Vioac	Stream Wa	ter Velocity (in riffle) (ft/s	sec):		
Stream Flow: None < ½ Bankfull < Bankfull	= Bankf	anti s	Bankfull				
							A
Water Depth (in riffle) (ft): None Bankfull Wi	idth (in i	riffle) (1		Stream Width (in		7,0)]
Scour Pool Length, Width & Depth (ft):2 /	/	-	Upstream	Pond Length & Width (ft)	:2		_
ish Passage Information			Q .V	45 51		3 13	
s the structure perched?	Yes	NO No		ding upstream?		Yes	(M)
s there a scour pool at the outlet?	Yes	(No)		ure fully backwatered? ange in head from the ups	tream	Yes	(N)
s there substrate through the structure's entire length?	Yes	(No)	side to dowr	nstream side?		Yes	No
Does the structure substrate match the stream	Yes	No	Is the structu stream widtl	ure narrower than the ban	kfull	Yes	(No
s water in the structure moving faster than in the	Yes	No	Is there deb	ris blocking the inlet?		Yes	N
stream? s water in the structure shallower than in the stream?	Yes	1		ence of overtopping or wa	sh-outs?	Yes	61

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert#	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☑ Site-IĐ	U tnlet	Doutlat		
Road Approach – Left	D Road Approach – Right	⊕ Outlet		
Upstream Conditions	Downstream Conditions	0		
Fish Passage Determi	nation			
Follow these guidelines to determ to evaluate passage for a particula	ine "passability" for a range of fish species. Thronger of the species and the species and the species and the species are species.	esholds may need to be modified i	f the obj	ective is
Passability = 0	Mos	t species and life stages cannot pa	iss at mi	net flowe
If any of the following questions ca	an be answered "yes", then the crossing barrier	score = 0.	os at me	,50 110 115.
1. The outlet of the structure is p			Yes	(No)
	greater than 3 feet/second during baseflow.		Yes	No
	er depth to stream water depth is less than 0.1.	•	Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:		-
Passability = 0.5	Some sp	pecies and/or life stages cannot pa	es at me	net flows
If any of the following questions ca	an be answered "yes", then the crossing barrier	score = 0.5.	33 Bt 1110	ist nows.
1. The water depth in the structu	ure is less than 0.2 feet.		Yes	No
The structure water velocity is	2-3 feet/second during baseflow.		Yes	No
/3. The structure is longer than 30	I feet and does not have natural substrate thro	ugh its entire length.	Yes	No
Passability = 0.9		Barr	ier at hi	gh flows.
If any of the following questions ca	in be answered "yes", then the crossing barrier	score = 0.9.		5
1. There is a scour pool below the	e structure.		Yes	No
	h to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
Passability = 1			Not :	a barrier.
If all of the following questions can	be answered "yes", then the crossing barrier s	core = 1.	1100	i baillei.
1. The outlet of the structure is n			Yes	No
2. The structure water velocity is	less than 2 feet/second during baseflow.		Yes	No
	er depth to stream water depth is greater than	0.1.	Yes	No
4. The water depth in the structu			Yes	No
5. There is not a scour pool below			Yes	No
6. The ratio of the structure widt	h to stream bankfull width is greater than 0.5.		Yes	No
7. The structure is longer than	30 feet and has natural substrate through its e	ntire length, or		_
The structure is shorter than	n 30 feet and has natural substrate through its	entire length, or	Yes	No
ine structure is shorter than	n 30 feet and does not have natural substrate th	hrough its entire length.		

Additional Comments

Culvert diagram, erosion, channel condition, evidence of wash-out, beaver, local testimony of frequency of overtopping...

**LO's on down Fram 5. de of Dean Hill road crossing have cut & removed as research as Parti Emp. Said. Glears ago Salmam were running up Lore; Creek

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LCS3-DOWNSTREAM



UPSTREAM

Stream Crossing Data Sheet				Site ID:	LMN	/		
General Information Name of Observer(s): Snct/				Date:	07/2	110		
GPS Waypoint: Additional Location Comments:			GPS Lat/Long:					
Road Information								
Road Name/Number: Dairy - Ands	and the second	Us	i's/					
	Town			vate Other:				
Road Surface: Raved Gravel Sand	Nativ	e Surfa	ice	Other:				
Road Width (ft): 18 Fill Depth (ft):	·/A	=						
Crossing Information								
Structure Type: Culvert(s) no.: Bridge	Ford		Dam Othe		e ID:		-	
Structure Shape Structure Material	Substra	te in S	tructure	Structure Condition				
Round Metal	None	9	Sand		lew Good	(Fair	Poor	
Square/Rectangle Concrete	Grav	el	Rock		et Outle	t In	ı Pipe	
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % Inl	et Outle	t In	Pipe	
Pipe Arch Wood				Rusted Through?	Yes	N		
Open Bottom Arch Structure In	nterior			Inlet Type		t Type	•	
Ellipse Smooth	or Cor	rugate	d	Projecting Mitered	At stream gr	ade		
Structure Water Velocity (ft/sec): 1 /, 6				Headwall Apron	Cascade ove	r riprap		
Structure Water Depth (ft): inlet		utlet	5.8	Wingwall 10-30° or 30-70°	Freefall into	pool.		
Structure Length (ft): 1				Trashrack	Freefall onto	riprap		
Structure Width (ft): ¹ 2) Structure H	leight (1	ft): 1	10	Other	Outlet apro	1		
Perch Height (ft): 1,2 Height of H					Other	er		
Buried Depth of Structure (ft): ¹ inlet	0	utlet		-				
Stream Information								
Stream Name: Lemon Creek			Stream Wat	ter Velocity (in riffle) (ft/	sec): 7.	4		
Stream Flow: None < 1/2 Bankfull < Bankfull =	= Bankfı	: الد	> Bankfull					
Water Depth (in riffle) (ft): Bankfull Wic	dth (in r	iffle) (1	ft):	Stream Width (in	riffle) ft:	12	_	
Scour Pool Length, Width & Depth (ft): ²	1		Upstream	Pond Length & Width (ft)); ²			
Fish Passage Information	1.,	7.5	Tr. 41	J:		Va-	Mo	
Is the structure perched? Is there a scour pool at the outlet?	Yes	MB MB		ding upstream? ure fully backwatered?		Yes	No	
Is there substrate through the structure's entire length?	Yes	No		ange in head from the ups	tream	Yes	No	
Does the structure substrate match the stream substrate?	Yes	No		ire narrower than the ban	kfull	Yes	No	
Is water in the structure moving faster than in the stream?	Yes	No.		is blocking the inlet?		Yes	Na	
Is water in the structure shallower than in the stream?	Yes	⟨Ña	Is there evide	ence of overtopping or wa	sh-outs?	Yes	No	

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)	Culvert #	Width (ft)	Height (ft)	Length (ft)
2				4			
3				5			

Filotos				
☐ Site ID	☐ Inlet	☐ Outlet		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determina	ation			
Follow these guidelines to determine	"passability" for a range of fish species. Thr	esholds may need to be modified	l if the obje	ective is
to evaluate passage for a particular s				
Passability = 0	Mos	st species and life stages cannot	pass at mo	st flows.
	be answered "yes", then the crossing barrie	r score = 0.		
1. The outlet of the structure is per			Yes	No
2. The structure water velocity is gi	reater than 3 feet/second during baseflow.		Yes	No
	depth to stream water depth is less than 0.1		Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:	10.00	
December 0.5	Somo si	pecies and/or life stages cannot	nass at me	et flows
Passability = 0.5	be answered "yes", then the crossing barrie		pass at me	36 110113.
		1 3001 6 - 0.3.	Yes	No
 The water depth in the structure The structure water velocity is 2- 			Yes	No
	eet and does not have natural substrate thro	ough its entire length.	Yes	No
5. The structure is longer than 95 to				
Passability = 0.9		Ba	arrier at hi	gh flows.
	be answered "yes", then the crossing barrie	r score = 0.9.		
1. There is a scour pool below the s	structure.		Yes	No
2. The ratio of the structure width	to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
Demark Hite 4			Not :	a barrier.
Passability = 1	e answered "yes", then the crossing barrier	score = 1	11011	2 20111011
		3core – 1.	Yes	No
1. The outlet of the structure is not	ess than 2 feet/second during baseflow.		Wes .	No
2. The structure water velocity is le	denth to stream water death is greater than	.01	Yes	No
	depth to stream water depth is greater than	10.1.	Ves	No
4. The water depth in the structure			~Yes	No
5. There is not a scour pool below to			Yes	No
6. The ratio of the structure width	to stream bankfull width is greater than 0.5.	entire length or	153	140
7. The structure is longer than 3	0 feet and has natural substrate through its	contina langth or	Yes	No
ine structure is snorter than.	30 feet and has natural substrate through its 30 feet and does not have natural substrate	through its entire length	្មារិធ១	110
ine structure is snorter than .	on leer and does not have hardrar substrate	unough its entire length.		

Additional Comments

 $^{^{1}}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LMN1-DOWNSTREAM

Stream Crossing Data Sheet				Site ID:	LMNZ	2	
General Information Name of Observer(s): 5 ne //				Date:	07/21	lo	
GPS Waypoint: Additional Location			GPS Lat/Long:	June	-//2.	770	
Comments:							
Road Information							
Road Name/Number: Old US 3/							_
Road Type: Federal State County	Town	Т	ribal Pri	vate Other:			
Road Surface: Paved Gravel Sand	Nativ	e Surfa	ce (Other:			
Road Width (ft):	5	_					
Crossing Information							
Structure Type: Culvert(s) no.: 2 Bridge	Ford	I	Dam Othe	er: Structu	re ID:		
Structure Shape Structure Material	Substra	ate in S	tructure	Structure Condition			
Round Metal	Non	e	Sand	General Condition:	New Good	Fair	Poor
Square/Rectangle Concrete	Grav	rel	Rock	Plugged: % In	let Outlet	In	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % In	let Outlet	In	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No)
Open Bottom Arch Structure In	nterior			Inlet Type	Outlet	Туре	
Ellipse Smooth	or Corrugated Projecting Mitered				At stream gra	At stream grade	
Structure Water Velocity (ft/sec): 1				Headwall Apron	Cascade over	riprap	
Structure Water Depth (ft): inlet		outlet	15.7	Wingwall 10-30° or 30-70°	Freefall into p	ool.	
Structure Length (ft): 93				Trashrack	Freefall onto	riprap	
Structure Width (ft): ¹ Structure H	leight (eight (ft): 1 5-8 Other			Outlet apron		
Perch Height (ft): 1,2 PHeight of H					Other		
Buried Depth of Structure (ft): ¹ inlet		outlet					
Stream Information							
Stream Name: Lenga Creek			Stream Wat	er Velocity (in riffle) (ft/	sec): /-	2_	
	= Bankf	ull :	> Bankfull				
Water Depth (in riffle) (ft): Bankfull Wid				Stream Width lin	riffle\ ft·	10	7
		iiiie) (i					
Scour Pool Length, Width & Depth (ft): ²	/		Upstream	Pond Length & Width (ft):2 <u>NA</u>		
Fish Passage Information	1					v . I	
Is the structure perched?	Yes	(g)		ing upstream?		Yes	Øo N∂
Is there a scour pool at the outlet?	Yes			re fully backwatered? Inge in head from the up:	stream		
Is there substrate through the structure's entire length?	₹P§	No	side to down	stream side?		Yes	No
Does the structure substrate match the stream substrate?	(es)	No	Is the structu stream width	re narrower than the bar ?	nkfull	Yes	No
Is water in the structure moving faster than in the	Yes	100	Is there debri	is blocking the inlet?		Yes	1 100
stream? Is water in the structure shallower than in the stream?	Yes	(N)	Is there evide	ence of overtopping or wa	ash-outs?	Yes	(No)

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)	(Culvert #	W
2	9	4.9	63 - Sedime	ntation	4	
3	•		63 - Sedme - pas	ses BKF	5	

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

riiott	JS				
🗆 Site	e ID	☐ Inlet	Outlet		
☐ Ro	ad Approach – Left	☐ Road Approach – Right			
□ Up	stream Conditions	☐ Downstream Conditions			
Fis]	h Passage Determir	nation			
Follo	w these guidelines to determi	ne "passability" for a range of fish species. Thr	esholds may need to be modified if	the obje	ctive is
to ev	aluate passage for a particular	r species. Answer all questions.			
	ability = 0		st species and life stages cannot pa	ss at mos	st flows.
If any	y of the following questions ca	n be answered "yes", then the crossing barrier	r score = 0.		
	The outlet of the structure is p			Yes	No
		greater than 3 feet/second during baseflow.		Yes	No
		er depth to stream water depth is less than 0.1		Yes	No
Struc	cture water depth:	Stream water depth:	Depth Ratio:		
Passa	ability = 0.5	Some s	pecies and/or life stages cannot pa	iss at mos	st flows.
		in be answered "yes", then the crossing barrie	r score = 0.5.		
	The water depth in the structu			Yes	No
		2-3 feet/second during baseflow.		Yes	No
3.	The structure is longer than 30) feet and does not have natural substrate thro	ough its entire length.	Yes	No
Pass	ability = 0.9		Barı	rier at hig	h flows.
		an be answered "yes", then the crossing barrie	r score = 0.9.		
	There is a scour pool below th			Yes	No
		th to stream bankfull width is less than 0.5.		Yes	No
	cture width:	Stream bankfull width:	Constriction Ratio:		
Dace:	ability = 1			Not a	barrier.
		be answered "yes", then the crossing barrier	score = 1.		
	The outlet of the structure is n			Yes	No
		less than 2 feet/second during baseflow.		(es)	No
	· · · · · · · · · · · · · · · · · · ·	er depth to stream water depth is greater than	0.1.	Yes	No
	The water depth in the structu	· ·		(Yes)	No
	There is not a scour pool below			(Yes)	No
	•	th to stream bankfull width is greater than 0.5.		₹ÊS	No
		30 feet and has natural substrate through its			
	_	n 30 feet and has natural substrate through its		(Ýes	No
		n 30 feet and does not have natural substrate	_		
`			O		

Additional Comments

 $[\]frac{1}{1}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LMN2-ROAD



UPSTREAM

Stream Crossing Data Sheet				Site ID:	LMN	3	
General Information							
Name of Observer(s): Snell				B-1-	07/2	.1.	
Observer(s):			GPS	Date:	07/2	1/10	_
GPS Waypoint:			Lat/Long:				
Additional Location							
Comments:							_
Road Information							
Road Name/Number: US 3/							_
Road Type: Federal State County	Town	Т	ribal Priv	rate Other:			_
Road Surface: Paved Gravel Sand	Nativ	e Surfa	ce C	Other:			
Road Width (ft): Fill Depth (ft):		_					
Crossing Information							
Structure Type: Culvert(s) no.:l Bridge	Ford	1	Dam Othe	r:Structu	re ID:		
Structure Shape Structure Material	Substra	ate in S	tructure	Structure Condition			
Round Metal	Non	e	Sand dom	General Condition:	New Good	Fair	Poor
Square/Rectangle Concrete	Grav	el	Rock	Plugged: % In	ilet Outlet	t In	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % In	iet Outlet	t In	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No	
Open Bottom Arch Structure I	nterior			Inlet Type	Outle	t Type	
Ellipse Smooth	or Cor	rugate	t	Projecting Mitered	At stream gr	age	
Structure Water Velocity (ft/sec): 0.6			-	Headwall Apron	Cascade ove	r riprap	
Structure Water Depth (ft): inlet		outlet	0.9	Wingwall 10-30° or 30-709	Freefall into	pool.	
Structure Length (ft):1				Trashrack	Freefall onto	riprap	
Structure Width (ft): ¹ Structure I	Height (ft): 1	7	Other	Outlet apror	1	
Perch Height (ft): 1,2 Height of H	Head (ft): ^{1, 2}	-		Other		
Buried Depth of Structure (ft): inlet		outlet	-				
Stream Information							
Stream Name: Lemon			Stream Wate	er Velocity (in riffle) (ft/	/sec): 0_	5	
Stream Flow: None < 12 Bankfuth < Bankfull	= Bankf	ull :	> Bankfull				
Water Depth (in riffle) (ft): Bankfull Wid	dth (in ı	riffle) (1	t): <u>//</u>	Stream Width (in	riffle) ft:	10	
Scour Pool Length, Width & Depth (ft):2			Upstream I	Pond Length & Width (fi	s); ²		
Fish Passage Information							
Is the structure perched?	Yes	(MD)	Is there pond	ing upstream?		Yes	No
Is there a scour pool at the outlet?	Yes	No.		re fully backwatered?		Yes	Œ)
Is there substrate through the structure's entire length?	Yes	No	Is there a cha side to downs	nge in head from the up: stream side?	stream	Yes	(No)
Does the structure substrate match the stream substrate?	TES	NO	Is the structur	re narrower than the bar	nkfull	Yes	100
			stream width	?			
Is water in the structure moving faster than in the stream?	Yes	<n∂< td=""><td></td><td>s blocking the inlet?</td><td></td><td>Yes</td><td>120</td></n∂<>		s blocking the inlet?		Yes	120
Is water in the structure shallower than in the stream?	Yes	No	Is there evide	ence of overtopping or w	ash-outs?	Yes	(III)

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert#	Width (ft)	Height (ft)	Length (ft)
2			
3			

	•	1	
Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	Downstream Conditions			
Fish Passage Determin	ation			
Follow these guidelines to determine to evaluate passage for a particular	e "passability" for a range of fish species. Th species. Answer all questions.	resholds may need to be modified	d if the obje	ective is
Passability = 0		ost species and life stages cannot	pass at mo	st flows.
If any of the following questions car	n be answered "yes", then the crossing barrie	er score = 0.		
 The outlet of the structure is per 			Yes	No
	greater than 3 feet/second during baseflow.		Yes	No
	r depth to stream water depth is less than 0.	1. Depth Ratio:	Yes	No
Structure water depth:	Stream water depth:			_
Passability = 0.5 If any of the following questions car	Some some some some some some some some s	species and/or life stages cannot er score = 0.5.	pass at mo	ost flows.
1. The water depth in the structure			Yes	No
2. The structure water velocity is	2-3 feet/second during baseflow.		Yes	No
3. The structure is longer than 30	feet and does not have natural substrate thi	rough its entire length.	Yes	No
Passability = 0.9		В	arrier at hi	gh flows.
	n be answered "yes", then the crossing barri	er score = 0.9.		
1. There is a scour pool below the	structure.		Yes	No
	n to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		_
Passability = 1	A Local Trans.		Not a	a barrier.
	be answered "yes", then the crossing barrie	r score = 1.		
1. The outlet of the structure is no	ot perched.		Yes	No
2. The structure water velocity is	less than 2 feet/second during baseflow.		Yes	No
	r depth to stream water depth is greater tha	n 0.1.	des.	No
4. The water depth in the structure			€	No
5. There is not a scour pool below		_		No
	to stream bankfull width is greater than 0.5		(Vi)	No
7. The structure is longer than	30 feet and has natural substrate through it	s entire length, or	No	No
	30 feet and has natural substrate through i		(e)	140
ine structure is snorter than	30 feet and does not have natural substrate	e un ough its entire length.		

Additional Comments

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



LMN3

Stream Crossing Data Sheet Site ID: LMN 4 **General Information** Name of Date: SNECL Observer(s): GPS Lat/Long: **GPS Waypoint: Additional Location** Comments: **Road Information** Red Bud Trail Road Name/Number: State County Tribal Private Other: Road Type: Federal Town **Road Surface:** Paved) Gravel Sand Native Surface Other: 24 Road Width (ft): Fill Depth (ft): **Crossing Information** Culvert(s) no.: Bridge Ford Dam Other: Structure ID: Structure Type: **Structure Condition** Structure Material **Substrate in Structure** Structure Shape General Condition: Metal Beans Sand New Good Fair Poor None Round Plugged: % Inlet Outlet In Pipe Square/Rectangle Gravel Rock Crushed % Inlet Outlet In Pipe Plastic Mixture Open Bottom Square/Rectangle Rusted Through? Yes No Wood Pipe Arch **Inlet Type Outlet Type** Structure Interior Open Bottom Arch Broken concrete Projecting) Mitered At stream grade Ellipse Structure Water Velocity (ft/sec): 1 0.7 Headwall Cascade over riprap Apron 0.7 outlet O.Z. Wingwall 10-30° or 30-70° Structure Water Depth (ft):1 inlet Freefall into pool. Structure Length (ft): 1 Trashrack Freefall onto riprap Structure Height (ft): 1 Structure Width (ft):1 Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1, 2 Other Buried Depth of Structure (ft):1 inlet outlet Stream Information Lemon Creek Stream Water Velocity (in riffle) (ft/sec): 0.6 None / Bankfull < Bankfull = Bankfull > Bankfull Stream Flow: Water Depth (in riffle) (ft): 0.25 Bankfull Width (in riffle) (ft): 14 Stream Width (in riffle) ft: Upstream Pond Length & Width (ft): 2 210 Scour Pool Length, Width & Depth (ft):2 /// Fish Passage Information Yes res No Is there ponding upstream? Is the structure perched? No 4Ve Is the structure fully backwatered? Yes No Is there a scour pool at the outlet? Yes Is there a change in head from the upstream Yes Ves Νo Is there substrate through the structure's entire length? side to downstream side? Is the structure narrower than the bankfull Does the structure substrate match the stream YES No Yes NO substrate? stream width?

Nø

No

Yes

Yes

Is there debris blocking the inlet?

Is there evidence of overtopping or wash-outs?

Yes

Yes

Is water in the structure moving faster than in the

Is water in the structure shallower than in the stream?

stream?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	☐ Outlet		
	☐ Road Approach — Right			
☐ Road Approach – Left				
☐ Upstream Conditions	Downstream Conditions			
Fish Passage Determ	ination			
•	mine "passability" for a range of fish species. Thr lar species. Answer all questions.	esholds may need to be modified	if the obje	ective is
Passability = 0	Mos	st species and life stages cannot p	ass at mo	st flows.
	can be answered "yes", then the crossing barrie			
1. The outlet of the structure is			Yes	No
	is greater than 3 feet/second during baseflow.		Yes	No
	ater depth to stream water depth is less than 0.1		Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:		
Passability = 0.5	Some s	pecies and/or life stages cannot p	ass at mo	st flows.
	can be answered "yes", then the crossing barrie			
1. The water depth in the struc			Yes	No
2. The structure water velocity		Yes	No	
	30 feet and does not have natural substrate thro	ough its entire length.	Yes	No
Passability = 0.9		Ва	rrier at hi	gh flows.
If any of the following questions	can be answered "yes", then the crossing barrie	r score = 0.9.		
There is a scour pool below			Yes	No
	idth to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
Passability = 1			Not a	a barrier.
	an be answered "yes", then the crossing barrier	score = 1.		
1. The outlet of the structure is			Yes	No
	is less than 2 feet/second during baseflow.		Yes	No
	ater depth to stream water depth is greater than	n 0.1.	Yes	No
	cture is greater than 0.2 feet.		Yes	No
5. There is not a scour pool be			Yes	No
	idth to stream bankfull width is greater than 0.5.	•	Yes	No
	an 30 feet and has natural substrate through its			
	han 30 feet and has natural substrate through its		Yes	No
	han 30 feet and does not have natural substrate			
Additional Comments				
	el condition, evidence of wash-out, beaver, local	testimony of frequency of overto	pping	
low-flow channel	built in colvert to stabilize	headwalls shall	den	
built in expect	! Apron on all and - previous	attempt at fish po	155a Je	?
¹ Fill out for primary culvert (culvert #1).	If multiple culverts are used, see reverse.	'	ar.	
² Fill out, if present.				



LMN4- DOWNSTREAM



UPSTREAM

Stream Cross	sing Data Sheet				Site ID:	V5	
General Information	0						
Name of						}	
Observer(s):	Snell				Date:	1 1/2	
				GPS			
GPS Waypoint:			_	Lat/Long:	-		
Additional Location							
Comments:					i		
Road Information	***		,				
Road Name/Numbe	er: Garr - South	01055	-				
Road Type:	Federal State County	Town	7	Tribal Pr	ivate Other:		_
Road Surface:	Paved Gravel Sand	Nativ	e Surfa	ace	Other:		
Road Width (ft):	75 Fill Depth (ft):	1.6	_				
Crossing Information	n						
Structure Type:	Culvert(s) no.:/_ Bridge	Ford		Dam Oth	er: Structure ID:		
Structure Shape	Structure Material	Substra	ate in S	tructure	Structure Condition		
Round	Meta	Non	e	Sand	General Condition: New Good) Fair	Poor
Square/Rectangle	Concrete	Grav	/el	Rock	Plugged: % Inlet Out	let ir	n Pipe
Open Bottom Square/Rec	ctangle Plastic		Mix	ture	Crushed % Inlet Out	let In	n Pipe
Pipe Arch	Wood				Rusted Through? Yes	N	lo
Open Bottom Arch	Structure I	nterior			Inlet Type Out	let Type	2
Ellipse	Smooth	or Cor	rugate	9	Projecting Mitered At stream	grade	
Structure Water Vel	locity (ft/sec):1 0.25				Headwall Apron Cascade o	er riprap	5
Structure Water De			outlet	0.25	Wingwall 10-30° or 30-70° Freefall in	o pool.	
Structure Length (ft)					Trashrack Freefall on		
Structure Width (ft)		loight (f+\· 1	4.7	Other Outlet apr		
				-701		on .	
Perch Height (ft): 1,2		-			Other		
Buried Depth of Stre	ucture (ft):1 inlet		outlet		-0		
Stream Information							
Stream Name:	Lemon Creek			Stream Wa	ter Velocity (in riffle) (ft/sec):	5, /	
Stream Flow: Nor	ne < ½ Bankfull < Bankfull =	= Bankfı	ull :	> Bankfull	NO RIFT	C/R	
Water Depth (in riff	le) (ft): _O_ 8 Bankfull Wid	lth (in r	iffle) (f	ft): 6	Stream Width (in riffle) ft:	4	
Scour Pool Length, V	Width & Depth (ft): *	1		Upstream	Pond Length & Width (ft): 2	y A:	
Fish Passage Inform	ation						
Is the structure perc	hed?	Yes	40	Is there pond	ding upstream?	Yes	₫% 0
Is there a scour pool	at the outlet?	Yes	Mô)		re fully backwatered?	Yes	(NO)
Is there substrate the	rough the structure's entire length?	YED	No		ange in head from the upstream	YES	No
1	ubstrate match the stream	Sav	No		re narrower than the bankfyll		-
substrate?		ABS	NO	stream width	. ****	Yes	189
Is water in the struc	ture moving faster than in the	Yes	13		ris blocking the inlet?	Yes	ND
stream?	ture shallower than in the stream?	Res	No		ence of overtopping or wash-outs?		No
is water in the struct	ture snanower than in the stream!	LLES	140	13 diele eviu	chee of overrobbing of wasti-outs:	163	1 .500

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)	Culvert #	Width (ft)	Height (ft)	Length (ft)
2				4			
3				5			

Photos					
☐ Site ID		☐ Inlet	Outlet		
☐ Road Approa	ch – Left	Road Approach – Right			
☐ Upstream Co	nditions	Downstream Conditions	ū		
Fish Passa	age Determii	nation			
		ne "passability" for a range of fish species. Thr r species. Answer all questions.	esholds may need to be modified	l if the obje	ective is
Passability = 0			st species and life stages cannot	pass at mo	st flows.
		in be answered "yes", then the crossing barrier	r score = 0.		
1. The outlet	of the structure is p	perched.		Yes	No
		greater than 3 feet/second during baseflow.		Yes	No
3. The ratio of the structure water depth to stream water depth is less than 0.1.			Yes	No	
Structure water	r depth:	Stream water depth:	Depth Ratio:		
Passability = 0.	5	Some si	pecies and/or life stages cannot	pass at mo	st flows.
		an be answered "yes", then the crossing barrie	•	,	
		ure is less than 0.2 feet.	. 50070 0.51	Yes	No
		2-3 feet/second during baseflow.		Yes	No
3. The structu	are is longer than 30	D feet and does not have natural substrate thro	ough its entire length.	Yes	No
	Ü				
Passability = 0.	9			arrier at hi	gh flows.
If any of the fol	llowing questions ca	an be answered "yes", then the crossing barrie	r score = 0.9.		
	scour pool below th			Yes	No
2. The ratio o	of the structure widt	th to stream bankfull width is less than 0.5.		Yes	No
Structure width	n:	Stream bankfull width:	Constriction Ratio:		
Passability = 1				Not a	a barrier.
	owing questions car	be answered "yes", then the crossing barrier	score = 1.		
	of the structure is r			Yes	No
		s less than 2 feet/second during baseflow.		Xes.	No
		er depth to stream water depth is greater than	0.1.	YES	No
		ure is greater than 0.2 feet.		 ₹êŝ	No
	ot a scour pool below			YES	No
		th to stream bankfull width is greater than 0.5.		€	No
7. The stru	ecture is longer than	1 30 feet and has natural substrate through its	entire length, or		
7. The stru	icture is charter the	in 30 feet and has natural substrate through its	s entire length, or	∕¥es	No
☐ The stru	icture is shorter tha	in 20 feet and thes not have natural substrate	through its entire length	Control of the last of the las	•
☐ The stru☐ The stru	acture is shorter that acture is shorter tha	in 30 feet and has natural substrate through its in 30 feet and does not have natural substrate	s entire length, or through its entire length.	T es	

Additional Comments



LMN5-DOWNSTREAM



ROAD



UPSTREAM

Stream Crossing Data Sheet	Site ID: LM		IN 6				
General Information							
Name of Observer(s):				D-4-			
Observer(s):			GPS	Date:	-		_
GPS Waypoint:			Lat/Long:				
Additional Location Comments:							
Road Information Road Name/Number: Full Gallet							
201		7	ribal Pr	rivate Other:			
		ا e Surfa/		Other:			
	_	e Surie	ice	Other:			
Road Width (ft): 25 Fill Depth (ft):		-					
Crossing Information							
Structure Type: Culvert(s) no.: _/_ Bri	idge Ford	!	Dam Oth	er: Structur	re ID:		
Structure Shape Structure Mate	erial Substra	ate in S	tructure	Structure Condition			
Round Metal	Non	e	Sand	General Condition:	lew Good	Fair	Poor
Square/Rectangle Concrete	Grav	/el	Rock	Plugged: % In	let Outlet	In	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % Inl	et Outlet	In	Pipe
Pipe Arch Wood				Rusted Through?	Yes	N	0
Open Bottom Arch Stru	acture Interior			Inlet Type	Outlet	Туре	2
Ellipse	nooth or Cor	rugate	d d	Projecting Mitered	At stream grad	de	
Structure Water Velocity (ft/sec):1				Headwall Apron	Cascade over	riprap	
Structure Water Depth (ft): inlet	(outlet		Wingwall 10-30° or 30-70°	Freefall into p	pol.	
Structure Length (ft): ¹ 28				Trashrack	Freefall onto r	iprap	
Structure Width (ft): ¹ /2 Stru	ucture Height (ft): 1	12	Other	Outlet apron		
	ght of Head (ft		0.1	- Carles	Other		
			0.1		Other		
Buried Depth of Structure (ft): inlet		outlet		-			
Stream Information							
Stream Name: Lenon CILLE			Stream Wa	ter Velocity (in riffle) (ft/	sec):		
Stream Flow: None & Bankfull < Bankf	full = Bankf	ull :	> Bankfull				
Water Depth (in riffle) (ft): 0.5 Bank	full Width (in r	riffle) (1	t): 2.	Stream Width (in	riffle) ft:	Z - °	<u>ర</u>
Scour Pool Length, Width & Depth (ft): ²	1-1		Upstream	Pond Length & Width (ft): 2		
Fish Passage Information	4		In the second	J:	Ť	Vas	eft.
Is the structure perched? Is there a scour pool at the outlet?	Yes Yes	No No		ding upstream? ure fully backwatered?		Yes Yes	(M2)
Is there substrate through the structure's entire le		AB)	Is there a ch	ange in head from the ups	tream	Yes	Não
Does the structure substrate match the stream	-			nstream side? ure narrower than the ban	LC II		1.2
substrate?	Yes	(Mg)	stream widt		<	Yes)	No
Is water in the structure moving faster than in the	e ve	No	Is there debi	ris blocking the inlet?		Yes	(QIP)
stream?		No	Is there evid	ence of overtopping or wa	sh-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert#	Width (ft)	Height (ft)	Length (ft)
2			
3		,	

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Pnoto	S				
🗖 Site	e ID	☐ Inlet	Outlet		
☐ Roa	ad Approach – Left	Road Approach – Right			
☐ Ups	stream Conditions	☐ Downstream Conditions	ū		
Fish	ı Passage Determina	ation			
Follov	w these guidelines to determine	e "passability" for a range of fish species. Thre	sholds may need to be modifie	ed if the obje	ective is
	aluate passage for a particular s				
Passa	bility = 0	Most	species and life stages canno	t pass at mo	st flows.
If any	of the following questions can	be answered "yes", then the crossing barrier	score = 0.	_	
	he outlet of the structure is pe			Yes	No
2. T	he structure water velocity is g	reater than 3 feet/second during baseflow.		Yes	No
3. T	he ratio of the structure water	depth to stream water depth is less than 0.1.		Yes	No
Structure water depth: Stream water depth: Depth					
D	Lillan - 0 F	Some on	ecies and/or life stages canno	t nass at mo	st flows.
	bility = 0.5			t pass at mo	,,t 110 W.J.
		be answered "yes", then the crossing barrier	SCOTE - 0.3.	Yes	No
	he water depth in the structure			Yes	No
 The structure water velocity is 2-3 feet/second during baseflow. The structure is longer than 30 feet and does not have natural substrate through its entire length. 				Yes	No
3. T	he structure is longer than 30 t	eet and does not have natural substrate thiol	ugn its entire length.	163	140
Passa	bility = 0.9		ı	Barrier at hi	gh flows.
		be answered "yes", then the crossing barrier	score = 0.9.		
	here is a scour pool below the			Yes	No
2. T	he ratio of the structure width	to stream bankfull width is less than 0.5.		Yes	No
	ture width:	Stream bankfull width:	Constriction Ratio	-	
	Litter 4			Not:	a barrier.
Passa	ibility = 1	pe answered "yes", then the crossing barrier s	core - 1	11011	a bottlett
			COIC - 1.	Yes	No
	he outlet of the structure is no			Yes	No
2. T	ne structure water velocity is it	ess than 2 feet/second during baseflow.	0.1	Yes	No
		depth to stream water depth is greater than	0.1.	Yes	No
	he water depth in the structure			Yes	No
	here is not a scour pool below				No
6. T	The ratio of the structure width	to stream bankfull width is greater than 0.5. 80 feet and has natural substrate through its ϵ	entire length, or	Yes	NO
		30 feet and has natural substrate through its		Yes	No
		30 feet and does not have natural substrate the			
L	ine structure is snorter than	50 leet and does not have natural substrate t	mough its entire length.		

Culvert diagram, erosion, channel condition, evidence of wash-out, beaver, local testimony of frequency of overtopping...

Additional Comments

 $[\]frac{1}{1}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



MN6-DOWNSTREAM

Stream Crossing Data Sheet				Site ID:	PHP4		
General Information				(
Name of Small				Date:	08/0	5/10	
GPS Waypoint: Additional Location Comments:			GPS Lat/Long:				
Road Information							
Road Name/Number: Marry							
Road Type: Federal State County	Town	Т	ribal Pri	ivate Other:			
Road Surface: Paved Gravel Sand	Native	Surfa	ce	Other:			
Road Width (ft): 21 Fill Depth (ft):	3						
Crossing Information							
Structure Type: Culvert(s) no.:/_ Bridge	Ford	[Dam Othe	er: Structui	e ID:		
Structure Shape Structure Material	Substrate	e in S	tructure	Structure Condition			
Round	None)	Sand	General Condition:	lew Good	Fair	Poor
Square/Rectangle Concrete	Gravel	ı	Rock	Plugged: % In	let Outle	t In I	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure		et Outle	t In I	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No)
Open Bottom Arch Structure I	nterior			Inlet Type	Outle	t Type	
Ellipse Smooth		igated		Projecting Mitered	At stream g	= 7	
Structure Water Velocity (ft/sec): 1		/		Headwall Apron	Cascade ove		
Structure Water Depth (ft): inlet 0.6	OII	ıtlet	0.6	Wingwall 10-30° or 30-70	Freefall into		
		uet _	0.90				
Structure Length (ft): 1		. 1	∇	Trashrack	Freefall onto		
Structure Width (ft): ¹ Structure H			8	Other	Outlet apro	n	
Perch Height (ft): 1,2 Height of H	Head (ft):	1, 2			Other		
Buried Depth of Structure (ft): inlet	ou	itlet		-			
Stream Information					a.	, i	
Stream Name: Pipestone Creek			Stream Wat	ter Velocity (in riffle) (ft/	sec): Z-	4	
Stream Flow: None <½ Bankfull < Bankfull	= Bankful	l >	- Bankfull				
Water Depth (in riffle) (ft): 2.35 Bankfull Wid			t): '8	Stream Width (in	riffle) ft:	† The	-
Scour Pool Length, Width & Depth (ft): ² Zo / 2	3 /		Upstream	Pond Length & Width (ft)): ²		_
Fish Passage Information	TvT	@	1- 46	dia a construe and		Voc	(No)
Is the structure perched? Is there a scour pool at the outlet?	Yes	No No		ding upstream? ure fully backwatered?		Yes	No
Is there substrate through the structure's entire length?	1	No	Is there a cha	ange in head from the upsostream side?	tream	Yes	No
Does the structure substrate match the stream substrate?	Yes	No		ire narrower than the ban	kfull	Yes	No
Is water in the structure moving faster than in the stream?	Yes	No	Is there debr	ris blocking the inlet?		Yes	No
Is water in the structure shallower than in the stream?	Yes	No	Is there evide	ence of overtopping or wa	sh-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Phot	cos				
☐ Si	te ID	☐ Inlet	☐ Outlet		
□ Re	oad Approach – Left	Road Approach – Right			
U U	pstream Conditions	☐ Downstream Conditions			
Fis	sh Passage Determi	nation			
		ne "passability" for a range of fish species. Thre r species. Answer all questions.	sholds may need to be modified	l if the obje	ective is
io e	valuate passage for a particular				_
	sability = 0		species and life stages cannot	pass at mo	st flows.
	•	in be answered "yes", then the crossing barrier	score = 0.		
	The outlet of the structure is p			Yes	No
2.	The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
		er depth to stream water depth is less than 0.1.		Yes	No
Stru	cture water depth:	Stream water depth:	Depth Ratio:		
_	1 1111	Sama en	ecies and/or life stages cannot	nace at mo	et flows
	sability = 0.5			pass at illo	3t 110 W 3.
		in be answered "yes", then the crossing barrier	Score – 0.5.	Yes	No
					No
2.	The structure water velocity is	2-3 feet/second during basenow.	ugh its entire length	Yes	No
3.	The structure is longer than 30) feet and does not have natural substrate thro	ugn its entire length.	163	140
Pass	sability = 0.9		Ва	arrier at hig	gh flows.
		n be answered "yes", then the crossing barrier	score = 0.9.		
	There is a scour pool below th			Yes	No
		h to stream bankfull width is less than 0.5.		Yes	No
	cture width:	Stream bankfull width:	Constriction Ratio:		
D	L-2(54 4			Not a	a barrier.
Pass	sability = 1	be answered "yes", then the crossing barrier s	core = 1		
			CO1C - 1.	Yes	No
1.	The outlet of the structure is r	s less than 2 feet/second during baseflow.		Yes	No
2.	The structure water velocity is	er depth to stream water depth is greater than	0.1	Yes	No
3.	The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Yes	No
	The water depth in the structu			Yes	No
	There is not a scour pool below	th to stream bankfull width is greater than 0.5.		Yes	No
6.	The ratio of the structure with	n to stream bankfull width is greater than 0.5. n 30 feet and has natural substrate through its e	entire length or	. 55	
7.	Ine structure is longer than	n 30 feet and has natural substrate through its	entire length or	Yes	No
	Ine structure is shorter tha	n 30 feet and has natural substrate timough its n 30 feet and does not have natural substrate t	brough its entire length		
	ine structure is snorter that	וו או זה וההר שווח חהה? ווחר וושגה וושרחושו אחוצרושרה ר	mough to chare length.		

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



PIP4-DOWNSTREAM



UPSTREAM

Stream Crossing Data Sheet General Information Name of Observer(s): GPS Lat/Long: GPS Waypoint: Additional Location Comments: Road Information Road Name/Number: Other: Tribal Private Federal State County Town Road Type: **Native Surface** Other: Road Surface: Paved/ Gravel Sand ~ 20 Road Width (ft): Fill Depth (ft): **Crossing Information** Culvert(s) no.: / Bridge Other: Structure ID: Dam Ford Structure Type: Structure Condition **Substrate in Structure** Structure Shape Structure Material **General Condition:** New Good Fair Poor None Sand Plugged: Inlet Outlet In Pipe Rock Concrete Gravel Square/Rectangle Crushed Outlet In Pipe Inlet Mixture Plastic Open Bottom Square/Rectangle Rusted Through? Yes No Wood Pipe Arch Inlet Type **Outlet Type** Structure Interior Open Bottom Arch Mitered At stream grade Smooth or Corrugated Projecting Ellipse Structure Water Velocity (ft/sec): 1 Cascade over riprap Headwall Apron Wingwall 10-30° or 30-70° Freefall into pool. Structure Water Depth (ft): 1 inlet 80 Freefall onto riprap Structure Length (ft): 1 Trashrack Structure Height (ft): Outlet apron Other Structure Width (ft):1 Height of Head (ft): 1,2 Perch Height (ft): 1,2 Other Buried Depth of Structure (ft):1 inlet Stream Information Pipestone Everk Stream Water Velocity (in riffle) (ft/sec): Stream Name: None < 1/2 Bankfull < Bankfuli = Bankfull > Bankfull Stream Flow: /2 Stream Width (in riffle) ft: -/ Water Depth (in riffle) (ft): 0,6 Bankfull Width (in riffle) (ft): Upstream Pond Length & Width (ft):² Scour Pool Length, Width & Depth (ft):2 Fish Passage Information No Is there ponding upstream? Yes No Yes Is the structure perched? Yes No Is the structure fully backwatered? Yes No Is there a scour pool at the outlet? Is there a change in head from the upstream Yes No No. Yes Is there substrate through the structure's entire length? side to downstream side? Is the structure narrower than the bankfull Does the structure substrate match the stream Yes No Yes No stream width? Is water in the structure moving faster than in the No Yes (No) Is there debris blocking the inlet? Yes

Yes

No

Yes

Is there evidence of overtopping or wash-outs?

stream?

Is water in the structure shallower than in the stream?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

				1
Culvert #	Width (ft)	Height (ft)	Length (ft)	Cu
2				
3				

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach – Left	Road Approach – Right			
Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determ	ination			
-	nine "passability" for a range of fish species. Thre lar species. Answer all questions.	esholds may need to be modified	if the objec	ctive is
Passability = 0	Mos	st species and life stages cannot (oass at mos	t flows.
	can be answered "yes", then the crossing barries	r score = 0.		
1. The outlet of the structure is			Yes	No
	is greater than 3 feet/second during baseflow.		Yes	No
	ater depth to stream water depth is less than 0.1		Yes	No
Structure water depth:		Depth Ratio:		
Passability = 0.5		pecies and/or life stages cannot	pass at mos	t flows.
	can be answered "yes", then the crossing barries	r score = 0.5.		
1. The water depth in the struc	ture is less than 0.2 feet.		Yes	No
2. The structure water velocity is 2-3 feet/second during baseflow.				No
3. The structure is longer than	30 feet and does not have natural substrate thro	ough its entire length.	Yes	No
Passability = 0.9		Ra	rrier at hig	h flows.
	can be answered "yes", then the crossing barrie			
1. There is a scour pool below		. 300, 6 0.3.	Yes	No
	dth to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
Structure Widem				
Passability = 1			Not a	barrier.
If all of the following questions of	an be answered "yes", then the crossing barrier	score = 1.		
1. The outlet of the structure is	s not perched.		Yes	No
2. The structure water velocity	is less than 2 feet/second during baseflow.		Yes	No
3. The ratio of the structure wa	ater depth to stream water depth is greater than	n 0.1.	Yes	No
	cture is greater than 0.2 feet.		Yes	No
5. There is not a scour pool be			Yes	No
	dth to stream bankfull width is greater than 0.5.		Yes	No
7. The structure is longer th	an 30 feet and has natural substrate through its	entire length, or		
☐ The structure is shorter t	han 30 feet and has natural substrate through its	s entire length, or	Yes	No
☐ The structure is shorter the	han 30 feet and does not have natural substrate	through its entire length.		
The structure is shorter to	TOTAL CONTROL OF THE PROPERTY	3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

Culvert diagram, erosion, channel condition, evidence of wash-out, beaver, local testimony of frequency of overtopping...

Additional Comments

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



PIP5

Site ID: 418 6 Stream Crossing Data Sheet **General Information** Name of Observer(s): GPS Lat/Long: **GPS Waypoint: Additional Location** Comments: Road Information Union E Road Name/Number: State County Town Tribal Private Road Type: Federal Gravel Native Surface Other: Sand **Road Surface:** Paved 21 Fill Depth (ft): Road Width (ft): **Crossing Information** Other: Structure ID: Dam Culvert(s) no.: | Bridge Ford Structure Type: Structure Condition **Structure Material Substrate in Structure** Structure Shape New Good Fair Poor General Condition: Metal None Round Plugged: % Inlet Outlet In Pipe Gravel Concrete Square/Rectangle Crushed 5 % In Pipe Inlet Outlet Mixture Plastic Open Bottom Square/Rectangle Rusted Through? Yes Wood Pipe Arch Inlet Type **Outlet Type Structure Interior** Open Bottom Arch Smooth or Corrugated At stream grade Projecting Mitered Ellipse Structure Water Velocity (ft/sec): 1 Cascade over riprap Headwall Apron inlet 0.9 outlet 0.4 Structure Water Depth (ft): 1 Wingwall 10-30° or 30-70° Freefall into pool. Structure Length (ft): 1 Trashrack Freefall onto riprap Structure Height (ft): 1 Other Outlet apron Structure Width (ft):1 Height of Head (ft): 1,2 Other Perch Height (ft): 1, 2 Buried Depth of Structure (ft):1 inlet Stream Information

Stream Name:		PHIStone C	K		Stream Water Velocity (in riffle) (ft/sec):	6.7	
	_			- 16"	D 16 H		
Stream Flow:	None	< 1/2 Bankfull	< Bankfull	= Banktull	> Bankfull		

Water Depth (in riffle) (ft): 0,5 Bankfull Width (in riffle) (ft): 14 Stream Width (in riffle) ft: 9

Scour Pool Length, Width & Depth (ft):² / / Upstream Pond Length & Width (ft):²

Fish Passage Information Yes No Yes 4 NO Is there ponding upstream? is the structure perched? Yes No Is the structure fully backwatered? Yes No Is there a scour pool at the outlet? Is there a change in head from the upstream No Yes) No Yes Is there substrate through the structure's entire length? side to downstream side? Is the structure narrower than the bankfull Does the structure substrate match the stream Yes Yes No stream width? substrate? Yes Is water in the structure moving faster than in the Yes No Is there debris blocking the inlet? stream? Is water in the structure shallower than in the stream? Is there evidence of overtopping or wash-outs? No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)	Culvert #	Width (ft)	Height (ft)	Len (fi
2				4			
3				5			

Photos				
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach – Left	☐ Road Approach – Right			
Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determination	n			
Follow these guidelines to determine "pasto evaluate passage for a particular species		esholds may need to be modif	ied if the obje	ective is
Passability = 0	Mo	st species and life stages cann	ot pass at mo	st flows.
If any of the following questions can be an	swered "yes", then the crossing barrie	r score = 0.		
1. The outlet of the structure is perched.			Yes	No
2. The structure water velocity is greater	than 3 feet/second during baseflow.		Yes	No
3. The ratio of the structure water depth	to stream water depth is less than 0.1	L.	Yes	No
Structure water depth:		Depth Ratio	o:	
Passability = 0.5	Some s	pecies and/or life stages cann	ot pass at mo	st flows.
If any of the following questions can be an				
1. The water depth in the structure is less	s than 0.2 feet.		Yes	No
2. The structure water velocity is 2-3 fee	t/second during baseflow.		Yes	No
3. The structure is longer than 30 feet ar	nd does not have natural substrate thro	ough its entire length.	Yes	No
Passability = 0.9			Barrier at hig	gh flows.
If any of the following questions can be an	swered "ves", then the crossing barrie	er score = 0.9.		
1. There is a scour pool below the struct			Yes	No
2. The ratio of the structure width to str	eam bankfull width is less than 0.5.		Yes	No
Structure width:	Stream bankfull width:	Constriction Rati	o:	
Passability = 1			Not a	a barrier.
If all of the following questions can be ans	wered "yes" then the crossing barrier	score = 1.		
1. The outlet of the structure is not percentage.	hed		Yes	No
 The dutiet of the structure is not pere The structure water velocity is less the 	an 2 feet/second during baseflow.		Yes	No
3. The ratio of the structure water depth	to stream water depth is greater than	n 0.1.	Yes	No
4. The water depth in the structure is gr			Yes	No
5. There is not a scour pool below the st			Yes	No
6. The ratio of the structure width to str	eam bankfull width is greater than 0.5		Yes	No
7. The structure is longer than 30 fee	and has natural substrate through its	entire length, or		
☐ The structure is shorter than 30 fee	et and has natural substrate through it	s entire length, or	Yes	No
☐ The structure is shorter than 30 fee	et and does not have natural substrate	through its entire length.		

¹Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



PIP6-DOWNSTREAM

Stream Crossing	Data Sheet				Site ID:	PIP	7	
General Information								
Name of Observer(s):	a]				Date:	02/0	1	
Observer(s):	E. / I			GPS	Date:	2816	> 3	-
GPS Waypoint: Additional Location				Lat/Long:				
Comments:								
Road Information	7							
Road Name/Number:	Fairver							
Road Type: Fede		Town		Гribal Pr	ivate Other:			
Road Surface: Pav	ved Gravel Sand	Nativ	ve Surfa	ace	Other:			
Road Width (ft):	Fill Depth (ft):	4						
Crossing Information								
•	vert(s) no.: Bridge	Ford		Dam Oth	er: Structui	re ID:		
Structure Shape				Structure	Structure Condition	-		
Round	Metal	Non		Sand		lew Good	Fair	Poor
Square/Rectangle	Concrete	Grav		Rock		let Outle		Pipe /
Open Bottom Square/Rectangle	Plastic		Mix	ture	Crushed % Inf	٠	-	Pipe
Pipe Arch	Wood				Rusted Through?	Yes	N	0
Open Bottom Arch	Structure Ir	nterior			Inlet Type	Outle	et Type	
Ellipse	Smooth	or Cor	rugate	d	Projecting Mitered	At stream g	rade	
Structure Water Velocity ((ft/sec):1 0.5				Headwall Apron	Cascade ove	er riprap	
Structure Water Depth (ft)): ¹ inlet	(outlet	0.3	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft): 1	30				Trashrack	Freefall onto	o riprap	
Structure Width (ft):1		leight (ft): 1	5	Other	Outlet apro	n	
Perch Height (ft): 1,2	Height of H			_		Other		
Buried Depth of Structure			outlet	6.8	di	0 0.10.		
	(14)				-			
Stream Information								
·	gotting Ct.			Stream Wat	ter Velocity (in riffle) (ft/	sec):		-
Stream Flow: None	< ½ Bankfull < Bankfull =	= Bankf	ull	> Bankfull				
Water Depth (in riffle) (ft)	: Bankfull Wid	lth (in i	riffle) (1	ft):/ C	Stream Width (in	riffle) ft:	7	_
Scour Pool Length, Width	& Depth (ft): ² /	1		Upstream	Pond Length & Width (ft)): ²		
Fish Passage Information								
Is the structure perched?		Yes	No	Is there pond	ding upstream?		Yes	No
Is there a scour pool at the	outlet?	Yes	No		re fully backwatered?		Yes	(N)
Is there substrate through	the structure's entire length?	Yes	No		ange in head from the ups istream side?	tream	Yes	No
Does the structure substra	te match the stream	Ves	No	Is the structu	are narrower than the ban	kfull	Yes	No
Is water in the structure m	noving factor than in the	الون	-	stream width				-
stream?	Oving laster trial in the	Yes	(No		is blocking the inlet?		Yes	No
Is water in the structure sh	nallower than in the stream?	Yes	No	Is there evid	ence of overtopping or wa	sh-outs?	Yes	NO

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1,

Culvert #	Width (ft)	Height (ft)	Length (ft)		Culvert #	Width (ft)	Height (ft)	Length (ft)
2	6	5	30	50% plugged	4			
3	·			1 ' '	5			

d if the obje pass at mo	
pass at mos	
	st flows.
Yes	No
Yes	No
Yes	No
nass at mo	st flows.
pass at me	
Yes	No
Yes	No
Yes	No
arrier at hic	h flows.
######################################	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Yes	No
Yes	No
Not a	barrier.
Yes	No
Yes	No
	Yes Yes pass at mo Yes Yes Yes arrier at high Yes Yes Yes Yes Yes Yes Yes Yes

Additional Comments

¹ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



PIP7-DOWNSTREAM



IN PIPE



UPSTREAM

Stream Crossing Data Sheet				Site ID:	PIPY	
General Information						
Name of					/	1
Observer(s):			GPS	Date:	68/65/	0
GPS Waypoint:			Lat/Long:			
Additional Location						
Comments:						
Road Information						
Road Name/Number:						
Road Type: Federal State County	Town		Tribal Pr	ivate Other:		
Road Surface: Paved Gravel Sand	Nati	ve Surf	ace	Other:		
Road Width (ft): 15 Fill Depth (ft):	2.	5				
Crossing Information						
Structure Type: Culvert(s) no.: 2 Bridg	ge Ford		Dam Oth	er: Structur	'e ID:	
Structure Shape Structure Materi	al Substi	rate in S	Structure	Structure Condition		
Round	No	ne	Sand	General Condition: N	lew Good Fair	Poor
Square/Rectangle Concrete	Gra	ivel	Rock	Plugged: % Inl	let Outlet Ir	n Pipe
Open Bottom Square/Rectangle Plastic		Mix	ture	Crushed % Inl	et Outlet Ir	n Pipe
Pipe Arch Wood				Rusted Through?	Yes N	No
Open Bottom Arch Struct	ure Interio			Inlet Type	Outlet Type	e
Ellipse Smo	oth or Co	rrugate	ď	Projecting Mitered	At stream grade	
Structure Water Velocity (ft/sec):1 0.6				Headwall Apron	Cascade over riprap	,
Structure Water Depth (ft): inlet/,	2	outlet	1.3	Wingwall 10-30° or 30-70°	Freefall into pool.	
Structure Length (ft): ¹				Trashrack	Freefall onto riprap	
Structure Width (ft): ¹ Struct	ture Height	(ft): ¹	10	Other	Outlet apron	
	t of Head (f	t): 1, 2			Other	
Buried Depth of Structure (ft): inlet		outlet		_		
Stream Information						
Stream Name: light fone CK			Stream Wa	ter Velocity (in riffle) (ft/s	sec):	
		full	> Bankfull	, , , , , , ,		
				Charles Mildely (in	-:(ff) - \ 64.	2
Water Depth (in riffle) (ft): Bankfu						_
Scour Pool Length, Width & Depth (ft):2	/ /	/	Upstream	Pond Length & Width (ft)): [*]	-
Fish Passage Information		2011				
Is the structure perched?	Yes	-		ding upstream?	Yes	-
Is there a scour pool at the outlet?	Yes	(No		ure fully backwatered?	Yes	No
Is there substrate through the structure's entire len	gth? Yes	No		ange in head from the ups nstream side?	stream Yes	No
Does the structure substrate match the stream	Res	No	Is the struct	ure narrower than the ban	kfull	No
substrate?	IES	+	stream widt	h?	159	140
Is water in the structure moving faster than in the	Yes	No	Is there deb	ris blocking the inlet?	Yes	No'

No

Yes

Is there evidence of overtopping or wash-outs?

No

Yes

stream?

Is water in the structure shallower than in the stream?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert#	Width (ft)	Height (ft)	Length (ft)
2	215	110	30
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Pho	itos				
⊐ s	ite ID	☐ Inlet	Outlet		
⊐ R	Road Approach – Left	☐ Road Approach – Right			
_ (Jpstream Conditions	☐ Downstream Conditions			
Fi	sh Passage Determir	nation			
	low these guidelines to determine evaluate passage for a particular	ne "passability" for a range of fish species. Thr r species. Answer all questions.	esholds may need to be modified	if the obje	ective is
Pas	ssability = 0	Mos	st species and life stages cannot	pass at mo	st flows.
		n be answered "yes", then the crossing barrier	r score = 0.		
1.	The outlet of the structure is p	erched.		Yes	No
2.	The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
		er depth to stream water depth is less than 0.1		Yes	No
Str	ucture water depth:	Stream water depth:	Depth Ratio:		
D		Somesi	pecies and/or life stages cannot	nace at mo	st flows
ras	sability = 0.5	n be answered "yes", then the crossing barrier		pass at mo	3t 110 113.
	The water depth in the structu		1 30016 - 0.5.	Yes	No
		2-3 feet/second during baseflow.		Yes	No
2. 3.	The structure is longer than 30) feet and does not have natural substrate thro	ough its entire length.	Yes	No
٥.	The structure is for Ber than se				
Pas	ssability = 0.9		В	arrier at hi	gh flows.
lf a	ny of the following questions ca	n be answered "yes", then the crossing barrie	r score = 0.9.		
	There is a scour pool below the			Yes	No
2.	The ratio of the structure widt	h to stream bankfull width is less than 0.5.		Yes	No
Str	ucture width:	Stream bankfull width:	Constriction Ratio:		
D				Not a	a barrier.
ras	sability = 1	be answered "yes", then the crossing barrier	score = 1		
11. a	The outlet of the structure is r		56616 2.	Yes	No
ı. 2.		less than 2 feet/second during baseflow.		Yes	No
3.	The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Yes	No
4.	The water depth in the structu			Yes	No
5.	There is not a scour pool below	-		Yes	No
6.		h to stream bankfull width is greater than 0.5.		Yes	No
	☐ The structure is longer than	30 feet and has natural substrate through its	entire length, or	r.Fin	
	☐ The structure is shorter tha	n 30 feet and has natural substrate through its	s entire length, or	Yes	No
	☐ The structure is shorter tha	n 30 feet and does not have natural substrate	through its entire length.		

Additional Comments

 $^{^1}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



PIP9

Stream Crossing Data Sheet				Site ID:	YLW	1	
General Information Name of							
Observer(s): Shell				Date:			
			GPS				
GPS Waypoint: Additional Location		-	Lat/Long:	-		_	
Comments:							
Road Information	1			17	*******		
Road Name/Number: Scottdale	131						
Road Type: Federal State Count	ty Town		Tribal Pr	rivate Other:			_
Road Surface: Paved Gravel Sand	d Nati	ve Surfa	ace	Other:			
Road Width (ft): Fill Depth (ft):	1	_					
Crossing Information							
Structure Type: Culvert(s) no.: / Brid	dge Ford		Dam Oth	er: Structur	e ID:		
Structure Shape Structure Mate			Structure	Structure Condition			
Round Metal	Nor		Sand	General Condition: N	lew Good	Fair	Poor
Square/Rectangle Concrete	Gra		Rock		let Outlet		Pipe
Open Bottom Square/Rectangle Plastic	Ciu		ture	Crushed % Ini			Pipe
		IVIIX	turc	Rusted Through?	Yes	N	·
- on subdisciona	cture Interior			Inlet Type	Outlet		
and the state of t	ooth or Co		d	Projecting Mitered	At stream gra		•
		rugate	u	1 '	_		
Structure Water Velocity (ft/sec): 1 6.2			12-10	Headwall Apron	Cascade over		
Structure Water Depth (ft): inlet	7.7	outlet	0.0 100	Wingwall 10-30° or 30-70°	Freefall into p	ool.	
Structure Length (ft): 1				Trashrack	Freefall onto	riprap	
Structure Width (ft): ¹ 27 Structure	cture Height ((ft): 1	15	Other	Outlet apron		
Perch Height (ft): 1,2 O.2 Heig	ht of Head (fi	t): 1, 2			Other		
Buried Depth of Structure (ft): ¹ inlet		outlet					
Stream Information							
Stream Name: Tellow Creak			Stream Wa	ter Velocity (in riffle) (ft/s	sec): /	۵	
Stream Flow: None 1/2 Bankfull < Bankfu	ıll = Bankf	ull :	> Bankfull				
Water Depth (in riffle) (ft): Bankf				Stream Width (in r	iffle) ft:	7. l	
Scour Pool Length, Width & Depth (ft): ²					_	53. V	
Fish Passage Information				-			
Is the structure perched?	Xes	No	Is there pond	ding upstream?	T _A	Yes	No
Is there a scour pool at the outlet?	(Yes)	No	Is the structu	ire fully backwatered?		Yès	No
Is there substrate through the structure's entire le	ngth? Zes	No	Is there a cha	ange in head from the upst stream side?	ream	Yes	NO
Does the structure substrate match the stream	Yes	1		are narrower than the ban	kfull		
substrate?	Tes	100	stream widt!			Yes	No
Is water in the structure moving faster than in the	Yes	(TB)	Is there deb	oris blocking the inlet?		Yes	No
stream? Is water in the structure shallower than in the structure.	eam? Yes	(N)	Is there evid	dence of overtopping or w	ash-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

□ s	ite ID	☐ Inlet	☐ Outlet		
□ R	oad Approach – Left	☐ Road Approach – Right			
□ u	pstream Conditions	☐ Downstream Conditions			
Fi	sh Passage Determi	nation			
		ine "passability" for a range of fish species. Threshr species. Answer all questions.	nolds may need to be modifie	ed if the obje	ective is
Pas	sability = 0	Most s	pecies and life stages cannot	t pass at mo	st flows.
If a	ny of the following questions ca	an be answered "yes", then the crossing barrier so			
1.	The outlet of the structure is			Yes	No
2.	The structure water velocity is	greater than 3 feet/second during baseflow.		Yes	No
3.	The ratio of the structure wat	er depth to stream water depth is less than 0.1.		Yes	No
	Structure water depth: Stream water depth: Depth Ratio				
Door	anhilita - O.E	Some sner	cies and/or life stages canno	t pass at mo	st flows.
Pas	sability = 0.5	an be answered "yes", then the crossing barrier so			
	The water depth in the struct			Yes	No
1.	The structure water velocity is	s 2-3 feet/second during baseflow.		Yes	No
2. 3.	The structure is longer than 3	0 feet and does not have natural substrate throug	sh its entire length.	Yes	No
٥.	The structure is for ger unam a				
Pas	sability = 0.9	a distribution factored by the distribution		Barrier at hi	gh flows.
If a	ny of the following questions ca	an be answered "yes", then the crossing barrier s	core = 0.9		
1.	There is a scour pool below th			Yes	No
2.	The ratio of the structure wid	th to stream bankfull width is less than 0.5.		Yes	No
Str		Stream bankfull width:	Constriction Ratio		
Dar	ssability = 1			Not a	a barrier.
If a	Il of the following questions car	n be answered "yes", then the crossing barrier sco	ore = 1.		
1.	The outlet of the structure is			Yes	No
2.	The structure water velocity is	s less than 2 feet/second during baseflow.		Yes	No
3.	The ratio of the structure wat	er depth to stream water depth is greater than 0.	.1.	Yes	No
4.	The water depth in the struct			Yes	No
5.	There is not a scour pool belo			Yes	No
5. 6.		th to stream bankfull width is greater than 0.5.		Yes	No
7.	☐ The structure is longer that	n 30 feet and has natural substrate through its en	tire length, or		
٠.	The structure is shorter that	an 30 feet and has natural substrate through its e	ntire length, or	Yes	No
	☐ The structure is shorter that	an 30 feet and does not have natural substrate th	rough its entire length.		
Ad	ditional Comments	and a property with the last of the same o			
Cul	vert diagram, erosion, channel	condition, evidence of wash-out, beaver, local te	stimony of frequency of over	topping	

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW1- DOWNSTREAM



DOWNSTREAM



DOWNSTREAM

Site ID: You Z **Stream Crossing Data Sheet General Information** Name of Observer(s): GPS **GPS Waypoint:** Lat/Long: **Additional Location** Comments: **Road Information** M63 Road Name/Number: Private Tribal Other: Federal **State** County Town Road Type: Payed **Road Surface:** Gravel Sand Native Surface Other: 30 Fill Depth (ft): Road Width (ft): **Crossing Information** Culvert(s) no.: F Bridge Other: Structure ID: Ford Dam **Structure Type: Structure Condition** Structure Shape **Structure Material Substrate in Structure** General Condition: New Good Metal None Fair Poor Round Plugged: % Inlet Outlet In Pipe Concrete Gravel Rock Square/Rectangle Crushed % Inlet Outlet In Pipe Open Bottom Square/Rectangle Plastic Mixture Rusted Through? Wood Pipe Arch **Outlet Type** Structure Interior Inlet Type Open Bottom Arch Smooth or Corrugated At stream grade Projecting Mitered Structure Water Velocity (ft/sec): 1 Headwall Cascade over riprap Apron inlet 0.8 outlet 0.7 Structure Water Depth (ft): 1 Wingwall 10-30° or 30-70° Freefall into pool. 80 Structure Length (ft):1 Trashrack Freefall onto riprap 3 D Structure Height (ft): 1 Structure Width (ft):1 Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1,2 Buried Depth of Structure (ft): inlet outlet Stream Information Yellow Creek Stream Water Velocity (in riffle) (ft/sec): > Bankfull < Bankfull = Bankfull Stream Flow: None < 1/2 Bankfull Water Depth (in riffle) (ft): 0-5 Bankfull Width (in riffle) (ft): 23 Stream Width (in riffle) ft: 15 Scour Pool Length, Width & Depth (ft): 2 / Upstream Pond Length & Width (ft): 2 **Fish Passage Information** Yes NO Is there ponding upstream? NO Is the structure perched? Yes Is the structure fully backwatered? Yes Mo) Yes N Is there a scour pool at the outlet? Is there a change in head from the upstream Yes Ϋ́gs No No Is there substrate through the structure's entire length? side to downstream side? Is the structure narrower than the bankfull Does the structure substrate match the stream NO) Yes Yes No stream width?

Yes

Yes

No

Is there debris blocking the inlet?

Is there evidence of overtopping or wash-outs?

No

Yes No

Yes

Is water in the structure moving faster than in the

Is water in the structure shallower than in the stream?

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert#	Width (ft)	Height (ft)	Length (ft)
2			
3			

			Length
Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

□ s	iite ID	☐ Inlet	Outlet		
Q R	Road Approach – Left	☐ Road Approach – Right			
- (Jpstream Conditions	☐ Downstream Conditions			
Fi	sh Passage Determir	ation			
	low these guidelines to determine evaluate passage for a particular	ne "passability" for a range of fish species. Thr species. Answer all questions.	esholds may need to be modifie	d if the obje	ective is
Pas	ssability = 0	Mos	st species and life stages cannot	pass at mo	st flows.
		n be answered "yes", then the crossing barrier	•	P	
	The outlet of the structure is p	· · · · · · · · · · · · · · · · · · ·		Yes	No
		greater than 3 feet/second during baseflow.		Yes	No
3.	The ratio of the structure water	r depth to stream water depth is less than 0.1	. .	Yes	No
Str	ucture water depth:	Stream water depth:	Depth Ratio:		
Pas	ssability = 0.5	Some s	pecies and/or life stages cannot	pass at mo	st flows.
		n be answered "yes", then the crossing barrie	•		
	The water depth in the structu			Yes	No
		2-3 feet/second during baseflow.		Yes	No
		feet and does not have natural substrate thro	ough its entire length.	Yes	No
Pag	ssability = 0.9		E	larrier at hig	zh flows.
		n be answered "yes", then the crossing barrie		•	
	There is a scour pool below the			Yes	No
	•	n to stream bankfull width is less than 0.5.		Yes	No
	ucture width:	Stream bankfull width:	Constriction Ratio:		
Pac	ssability = 1			Not a	barrier.
		be answered "yes", then the crossing barrier	score = 1.		
1.				Yes	No
2.		less than 2 feet/second during baseflow.		(Ves)	No
3.	The ratio of the structure wate	r depth to stream water depth is greater than	n 0.1.	Tes	No
4.	The water depth in the structu			Yes	No
5.	There is not a scour pool below			Tes	No
6.	•	n to stream bankfull width is greater than 0.5.		(Ves)	No
7.		30 feet and has natural substrate through its			
	☐ The structure is shorter than	a 30 feet and has natural substrate through its	s entire length, or	(Yes)	No
		30 feet and does not have natural substrate			

Additional Comments

 $^{^{}m 1}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW2-ROAD



UPSTREAM

Stream Crossing Data Sheet				Site ID: Yw		3	
General Information							
Name of						1	
Observer(s): Sne/			GPS	Date:	07/21	//3	_
GPS Waypoint:			Lat/Long:				
Additional Location							
Comments:							
Road Information							
Road Name/Number: Marque the	Vocal5						
Road Type: Federal State County	Town	-	Tribal Pri	vate Other:			
Road Surface: Payed Gravel Sand	Nativ	re Surfa	ace	Other:			
Road Width (ft): 2/ Fill Depth (ft):	5						
Crossing Information			D Other	Character	ID:		
Structure Type: Culvert(s) no.: / Bridg				er:Structur	е ір:		
Structure Shape Structure Materia	al Substra	ate in S	itructure	Structure Condition			
Round MetaP	None	e	Sand	General Condition:	lew Good	Fair	Poor
Square/Rectangle Concrete	Grav	/el	Rock	Plugged: % Ini	let Outlet	ln l	Pipe
Open Bottom Square/Rectangle Plastic		Mix	ture	Crushed % Inl	et Outlet	In I	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No)
Open Bottom Arch Struct	ure Interior			Inlet Type	Outlet	t Type	
Ellipse	oth or Cor	rugate	e e	Projecting Mitered	At stream gra	de	
Structure Water Velocity (ft/sec):	1			Headwall Apron	Cascade over	riprap	
Structure Water Depth (ft): inlet /. 0		nutlet	2.6	Wingwall 10-30° or 30-70°	Freefall into	nool	
		Junet					
		1	-	Trashrack	Freefall onto		
Structure Width (ft): ¹ /8 Struct			8	Other	Outlet apron		
Perch Height (ft): 1,2 Height	t of Head (ft): ^{1, 2}	-		Other		
Buried Depth of Structure (ft): inlet		outlet					
Stream Information							
1111 2 12			Ct	to a Malandar / final definal / fit /	\ / T	>	
Stream Name: Pellow Creek	-		Stream war	ter Velocity (in riffle) (ft/	sec):	-	-
Stream Flow: None < 1/2 Bankfull < Bankfull	= Bankf	ull	> Bankfull				
Water Depth (in riffle) (ft):Bankful	ll Width (in I	riffle) (Stream Width (in		17	
Scour Pool Length, Width & Depth (ft): ²	1	_	Upstream	Pond Length & Width (ft);²		_
Fish Passage Information						V	NI.
Is the structure perched? Is there a scour pool at the outlet?	Yes Yes	No No		ding upstream? are fully backwatered?		Yes Yes	No No
•			-	ange in head from the ups	tream		
Is there substrate through the structure's entire len	gth? Yes	No	side to down	stream side?		Yes	No
Does the structure substrate match the stream	Yes	No	Is the structu	re narrower than the ban	kfull	Yes	No
Is water in the structure moving faster than in the						Yes	No
stream?	Yes	No		is blocking the inlet?			
Is water in the structure shallower than in the stream	m? Yes	No	Is there evid	ence of overtopping or wa	ash-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

	a.c.p.a aa				•		
Culvert #	Width (ft)	Height (ft)	Length (ft)	Culvert #	Width (ft)	Height (ft)	Length (ft)
2				4			
3				5			

Pho	otos				
	Site ID	☐ Inlet	☐ Outlet		
 F	Road Approach – Left	☐ Road Approach — Right			
Ü (Jpstream Conditions	☐ Downstream Conditions	۵		
Fi	sh Passage Determir	nation			
	llow these guidelines to determine evaluate passage for a particular	ne "passability" for a range of fish species. Thre species. Answer all questions.	esholds may need to be modified	if the obje	ective is
Pas	ssability = 0	Mos	t species and life stages cannot p	ass at mo	st flows.
if a	my of the following questions ca	n be answered "yes", then the crossing barrier	score = 0.		
1.	The outlet of the structure is p	erched.		Yes	No
2.		greater than 3 feet/second during baseflow.		Yes	No
3.		er depth to stream water depth is less than 0.1.		Yes	No
Str	ucture water depth:	Stream water depth:	Depth Ratio:		
Day	ssability = 0.5	Some sn	ecies and/or life stages cannot	nass at mo	st flows.
		n be answered "yes", then the crossing barrier		J	
			30010 - 0.5.	Yes	No
1.	The water depth in the structu			Yes	No
 3. 	The structure water velocity is The structure is longer than 30	2-3 feet/second during baseflow. The feet and does not have natural substrate thro	ugh its entire length.	Yes	No
Pa	ssability = 0.9			ırrier at hi	gn flows.
If a		n be answered "yes", then the crossing barrier	score = 0.9.		
1.	There is a scour pool below the			Yes	No
2.		h to stream bankfull width is less than 0.5.		Yes	No
Str	ructure width:	Stream bankfull width:	Constriction Ratio:	×	
Pas	ssability = 1			Not a	a barrier.
		be answered "yes", then the crossing barrier s	score = 1.		
1.	The outlet of the structure is n			Yes	No
2.		less than 2 feet/second during baseflow.		Yes	No
3.	The ratio of the structure water	er depth to stream water depth is greater than	0.1.	Ves	No
4.	The water depth in the structu			Yes	No
5.	There is not a scour pool below			(es)	No
6.		h to stream bankfull width is greater than 0.5.		Yes	No
7.		30 feet and has natural substrate through its	entire length, or		
/٠	The structure is charter than	n 30 feet and has natural substrate through its	entire length, or	Yes)	No
		n 30 feet and does not have natural substrate t		~==	
	- The structure is shorter tild.	ii 30 leet alia ades not have hatarai sabstrate i	an oagn to chare tengen.		

Additional Comments

 $^{^{}rac{1}{2}}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW3- DOWNSTREAM



UPSTREAM

Site ID: YLW 4 **Stream Crossing Data Sheet General Information** Name of Observer(s): GPS Lat/Long: **GPS Waypoint: Additional Location** Comments: **Road Information** Road Name/Number: Tribal Other: Private Count Town Road Type: Federal Paved Sand **Native Surface** Other: **Road Surface:** Gravel Fill Depth (ft): Road Width (ft): **Crossing Information** Other: Structure ID: Culvert(s) no.: / Bridge Dam Ford **Structure Type: Structure Condition** Substrate in Structure **Structure Material** Structure Shape **General Condition:** New Good Fair Poor **Metal** > None Sand Round Plugged: % Rock Inlet Outlet In Pipe Concrete Gravel Square/Rectangle Crushed % In Pipe Inlet Outlet Mixture Plastic Open Bottom Square/Rectangle Rusted Through? Wood Pipe Arch **Outlet Type Structure Interior** Inlet Type Open Bottom Arch At stream grade Smooth or Corrugated Projecting Mitered Structure Water Velocity (ft/sec): 1 Headwall Cascade over riprap Apron Structure Water Depth (ft): 1 Wingwall 10-30° or 30-70° Freefall into pool. Structure Length (ft):1 Trashrack Freefall onto riprap Structure Height (ft): 1 Structure Width (ft):1 Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1,2 Other Buried Depth of Structure (ft): inlet outlet Stream Information Yellow Crack Stream Water Velocity (in riffle) (ft/sec): = Bankfull > Bankfull < 1/2 Bankfull Stream Flow: None < Bankfull Water Depth (in riffle) (ft): 05 Bankfull Width (in riffle) (ft): 16 Stream Width (in riffle) ft: 12 / / Upstream Pond Length & Width (ft): 2 Scour Pool Length, Width & Depth (ft):2

Is the structure perched?	Yes	No	Is there ponding upstream?	Yes	No
Is there a scour pool at the outlet?	Yes	No.	Is the structure fully backwatered?	Yes	No
Is there substrate through the structure's entire length?	Yes	No	Is there a change in head from the upstream side to downstream side?	Ves	No
Does the structure substrate match the stream substrate?	Yes	No	Is the structure narrower than the bankfull stream width?	Yes	Nò
Is water in the structure moving faster than in the stream?	Yes	€No>	Is there debris blocking the inlet?	Yes	No>
Is water in the structure shallower than in the stream?	Yes	No	Is there evidence of overtopping or wash-outs?	Yes	No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	☐ Outlet		
☐ Road Approach – Left	Road Approach – Right			
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determi	nation			
Follow these guidelines to determ to evaluate passage for a particula	ine "passability" for a range of fish species. Thr or species. Answer all questions.	esholds may need to be modified if th	e objed	ctive is
Passability = 0		t species and life stages cannot pass	at mos	t flows.
If any of the following questions ca	an be answered "yes", then the crossing barrie	r score = 0.		
1. The outlet of the structure is		Y	es	No
2. The structure water velocity is	s greater than 3 feet/second during baseflow.	Y	es	No
3. The ratio of the structure wat	er depth to stream water depth is less than 0.1	. Ү	es	No
Structure water depth:	Stream water depth:	Depth Ratio:		
 The water depth in the struct The structure water velocity i The structure is longer than 3 	s 2-3 feet/second during baseflow. O feet and does not have natural substrate thro	ough its entire length. Y	es es	No No
Passability = 0.9			r at hig	h flows.
If any of the following questions of	an be answered "yes", then the crossing barrie	r score = 0.9.	_	
1. There is a scour pool below th			es .	No
2. The ratio of the structure wid	th to stream bankfull width is less than 0.5.		es es	No
Structure width:	Stream bankfull width:	Constriction Ratio:		
Passability = 1			Not a	barrier.
If all of the following questions ca	n be answered "yes", then the crossing barrier	score = 1.		
1. The outlet of the structure is		K_	es	No
2. The structure water velocity i	s less than 2 feet/second during baseflow.	a de la companya de	es	No
3. The ratio of the structure wat	ter depth to stream water depth is greater than	1 0121	(e)	No
4. The water depth in the struct	ure is greater than 0.2 feet.	4	(e)	No
5. There is not a scour pool belo		Y	es>	No
6. The ratio of the structure wid	th to stream bankfull width is greater than 0.5	. <u> </u>	7ès	No
7. The structure is longer tha	n 30 feet and has natural substrate through its	entire length, or	_	
☐ The structure is shorter the	an 30 feet and has natural substrate through it	s entire length, or	7 es	No
☐ The structure is shorter th	an 30 feet and does not have natural substrate	through its entire length.		
= 11,0 5th datate is shorter at		-		

Additional Comments

 $rac{1}{2}$ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW4- UPSTREAM

Stream Crossin	g Data Sneet				Site ID:	1600 =	>	
General Information								
Name of	/ //					/ /	,	
Observer(s):	Snell			GPS	Date:	07/21/	0	
GPS Waypoint:				Lat/Long:				
Additional Location								
Comments:							-	
Road Information								
Road Name/Number:	John Beers							_
Road Type: Fe	ederal State county	Town	Ŧ	ribal Pri	vate Other:			_
Road Surface:	aved Gravel Sand	Nativ	e Surfa	ce	Other:			
Road Width (ft):	Fill Depth (ft):	0	_					
Crossing Information								
_	Culvert(s) no.:/ Bridge	Ford	ı	Dam Othe	er: Structur	re ID:		
Structure Shape				tructure	Structure Condition			
Round	Metal	None	9	Sand	General Condition:	lew Good F	air	Poor
Square/Rectangle	Concrete	Grav	ēl >	Rock	Plugged: % Int	let Outlet	ln I	Pipe
Open Bottom Square/Rectang	gle Plastic		Mixt	ure	Crushed % Inl	et Outlet	In I	Pipe
Pipe Arch	Wood				Rusted Through?	Yes	No)
Open Bottom Arch	Structure In	terior			Inlet Type	Outlet 1	уре	
Ellipse	Smooth	or Cor	rugated	t	Projecting Mitered	At stream grade	9	
Structure Water Velocit	ty (ft/sec): 1	ç.°			Headwall Apron	Cascade over ri	prap	
Structure Water Depth		o	utlet	1.1	Wingwall 10-30° or 30-70°	Freefall into po	ol.	
Structure Length (ft):	42				Trashrack	Freefall onto rip	orap	
Structure Width (ft):	25 Structure H	eight (1	ft): 1	10	Other	Outlet apron		
Perch Height (ft): 1, 2	Height of Ho					Other		
			outlet			T. Outlo.		
Buried Depth of Structu	ure (ft): ¹ inlet		, auct		-			
Stream Information	.10							
Stream Name:	Allow CK		19	Stream Wat	ter Velocity (in riffle) (ft/	sec): 0.7		-
Stream Flow: None	<1/2 Bankfull < Bankfull =	Bankfı	ull :	> Bankfull				
Water Depth (in riffle) ((ft): 1,2 Bankfull Wid	th (in r	iffle) (1	t):	Stream Width (in	riffle) ft: 📝	1	
Scour Pool Length, Wid	th & Depth (ft): ² /	_ /		Upstream	Pond Length & Width (ft): ²		
Fish Passage Information	-							
Is the structure perched		Yes	NB	Is there pond	ling upstream?	\	es	No
Is there a scour pool at		Yes	Nó		re fully backwatered?		⁄es	No
Is there substrate throu	gh the structure's entire length?	Yes	No		ange in head from the ups stream side?	stream	es	No
Does the structure subs	strate match the stream	Yes) No	Is the structu	ire narrower than the ban	ıkfull ,	res (No
substrate?	Continue to the	163	140	stream width	17			
Is water in the structure stream?	e moving faster than in the	Yes	No	Is there debr	is blocking the inlet?	`	⁄es	No
	shallower than in the stream?	Yes	(No)	Is there evid	ence of overtopping or wa	ash-outs?	es /	Ng

Is water in the structure shallower than in the stream?

Photos

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

		1	
Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

☐ Site ID		☐ Inlet	Outlet		
☐ Road Approach	h – Left	Road Approach – Right			
Upstream Con	ditions	☐ Downstream Conditions			
Fish Passa	ge Determin	ation			
		e "passability" for a range of fish species. Th species. Answer all questions.	nresholds may need to be modifie	ed if the obje	ctive is
Passability = 0		Me	ost species and life stages canno	t pass at mos	st flows.
 If any of the folio The outlet o The structur The ratio of 	f the structure is pe e water velocity is ¿ the structure wate	n be answered "yes", then the crossing barri erched. greater than 3 feet/second during baseflow. r depth to stream water depth is less than 0 Stream water depth:		Yes Yes Yes	No No No
Passability = 0.5	SENTITUM		species and/or life stages canno	t pass at mos	st flows.
		n be answered "yes", then the crossing barri re is less than 0.2 feet.	er score = 0.5.	Yes	No
		2-3 feet/second during baseflow.		Yes	No
3. The structur	e is longer than 30	feet and does not have natural substrate th	rough its entire length.	Yes	No
Passability = 0.9				Barrier at hig	h flows.
If any of the follo	wing questions car	be answered "yes", then the crossing barri	ier score = 0.9.		
1. There is a so	our pool below the	structure.		Yes	No
2. The ratio of	the structure width	to stream bankfull width is less than 0.5.		Yes	No
Structure width:		Stream bankfull width:	Constriction Ratio	-	
Passability = 1		ter to a control of		Not a	barrier.
If all of the follow	wing questions can	be answered "yes", then the crossing barrie	er score = 1.		
1. The outlet o	f the structure is no	ot perched.		Ves	No
2. The structur	e water velocity is	less than 2 feet/second during baseflow.		(Tes	No
		r depth to stream water depth is greater tha	an 0.1.	₫ês ©	No
		re is greater than 0.2 feet.		(Yes	No
	a scour pool below		_	Yes	No
6. The ratio of	the structure width	to stream bankfull width is greater than 0.	5.	Yes	No
☐ The struc	ture is shorter thar	30 feet and has natural substrate through it a 30 feet and has natural substrate through a 30 feet and does not have natural substrat	its entire length, or	Yes	No

Additional Comments

 $^{^{1}\}mbox{Fill}$ out for primary culvert (culvert #1). If multiple culverts are used, see reverse. $^{2}\mbox{Fill}$ out, if present.



YLW5- UPSTREAM

Stream Crossing Data Sheet				Site ID:	YL W	6	
General Information	*						
Name of					1-	1/12	
Observer(s): Sne//			CDC	Date:	07/2	4/10	
GDS Waynaint			GPS Lat/Long:				
GPS Waypoint: Additional Location							
Comments:							
Road Information							
Road Name/Number: Hollywood No	f K	ocky	Weed				
	Town			rivate Other:			
Road Surface: Payed Gravel Sand	Nativ	e Surfa	ce	Other:			_
Road Width (ft): 25 Fill Depth (ft):	6	_					
Crossing Information		100					
Structure Type: Culvert(s) no.: _/_ Bridge	Ford	[Dam Oth	ner:Structur	e ID:		
	Substra	te in S	tructure	Structure Condition			
Round Metal	None	9	Sand	General Condition: N	lew Good	Fair	Poor
Square/Rectangle Concrete	Grav	el 🧪	Rock	Plugged: % Inl	et Outle	et in	Pipe
Open-Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % Inl	et Outle	t In I	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No.	
Open Bottom Arch Structure Ir	nterior			Inlet Type		et Type	
Ellipse	or Cor	rugated	1	Projecting Mitered	At stream g	rade	
Structure Water Velocity (ft/sec): 1				Headwall Apron	Cascade ove	er riprap	
Structure Water Depth (ft): inlet	0	utlet	0.4	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft): 1				Trashrack	Freefall ont	o riprap	
Structure Width (ft): 6 Structure H	leight (f	ft): 1	6	Other	Outlet apro	n	
Perch Height (ft): 1, 2 Height of H	lead (ft)): ^{1, 2}			Other		
Buried Depth of Structure (ft): inlet	c	outlet		_			
Stream Information				Marie Jan Marie J			
Stream Name: 4/ 1/21 Crey			Stream Wa	ater Velocity (in riffle) (ft/	sec): O	. 3	
	= Bankfi	ull :	> Bankfull				
Water Depth (in riffle) (ft): 6.4 Bankfull Wic				Stream Width (in	riffle) ft:	5	
	,			n Pond Length & Width (ft			
Scour Pool Length, Width & Depth (ft): ²			Opinean	one sought or street, (15	-		
Fish Passage Information	Yes	NO	Is there nor	nding upstream?		Yes	CN3
Is the structure perched? Is there a scour pool at the outlet?	Yes	NO		ture fully backwatered?		Yes	No
	Yes	No	Is there a ch	hange in head from the ups	stream	Yes	(N)
Is there substrate through the structure's entire length?	1	140		nstream side? ture narrower than the bar	nkfull		
Does the structure substrate match the stream substrate?	Ves	No	stream wid		INIMI	(Ye)s	No
Is water in the structure moving faster than in the	Yes	No	Is there deb	oris blocking the inlet?	ittle	Yes	Ng
stream? Is water in the structure shallower than in the stream?	Yes	No)		dence of overtopping or wa	ash-outs?	Yes	Ng
15 water in the structure shallower than in the stream;	1	1/					***************************************

Site ID: YLW 6

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

Photos				
☐ Site ID	☐ Inlet	Outlet		
☐ Road Approach – Left	☐ Road Approach – Right	Q		
☐ Upstream Conditions	☐ Downstream Conditions			
Fish Passage Determination	1			
Follow these guidelines to determine "pass to evaluate passage for a particular species		s. Thresholds may need to be	modified if the obje	ective is
Passability = 0	4-10-	Most species and life stages	cannot pass at mo	st flows.
If any of the following questions can be ans	wered "yes", then the crossing b	parrier score = 0.		
1. The outlet of the structure is perched.		_	Yes	No
2. The structure water velocity is greater			Yes	No
3. The ratio of the structure water depth			Yes	No
Structure water depth:	Stream water depth:	Deptr	Ratio:	
Passability = 0.5	Sec	me species and/or life stages	cannot nass at mo	st flows
If any of the following questions can be ans			camor pass at me	, st 110 11 p.
1. The water depth in the structure is less			Yes	No
2. The structure water velocity is 2-3 feet			Yes	No
3. The structure is longer than 30 feet and		e through its entire length.	Yes	No
Passability = 0.9			Barrier at hi	gh flows.
If any of the following questions can be ans	wered "ves", then the crossing b	parrier score = 0.9.	24	5
There is a scour pool below the structure.			Yes	No
2. The ratio of the structure width to stre		5.	Yes	No
Structure width:	Stream bankfull width:	Constriction	n Ratio:	
Docachility - 1			Not:	a barrier.
Passability = 1 If all of the following questions can be answ	vered "ves", then the crossing ba	arrier score = 1.	11011	a barrion
1. The outlet of the structure is not perch			Yes	No
 The structure water velocity is less that 		·.	Yes	No
3. The ratio of the structure water depth			Ves	No
4. The water depth in the structure is gre			Yes	No
5. There is not a scour pool below the str			Yes	No
6. The ratio of the structure width to stre	am bankfull width is greater tha	n 0.5.	YES	No
7.	and has natural substrate throu	gh its entire length, or		
The structure is shorter than 30 feet			(Yes)	No
The structure is shorter than 30 feet	and does not have natural subs	trate through its entire length		
A Library, Louis				

Additional Comments

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW6-UPSTREAM

Site ID: Yw 7 Stream Crossing Data Sheet **General Information** Name of Observer(s): GPS Lat/Long: **GPS Waypoint:** Additional Location Comments: **Road Information** Road Name/Number: Other: Tribal Private Town Road Type: Federal Other: Sand **Native Surface Road Surface:** Paved Gravel Fill Depth (ft): Road Width (ft): **Crossing Information** Culvert(s) no.: / Bridge Ford Dam Other: Structure ID: Structure Type: Structure Condition **Substrate in Structure** Structure Material **Structure Shape** General Condition: New Good Fair Sapa Poor None Round Metal Plugged: % Inlet Rock Outlet In Pipe Concrete Gravel Square/Rectangle Crushed % Inlet Outlet In Pipe Mixture Plastic Open Bottom Square/Rectangle Rusted Through? Yes No Wood Pipe Arch **Inlet Type Outlet Type** Structure Interior Open Bottom Arch Smooth or Corrugated Projecting Mitered At stream grade Ellipse Structure Water Velocity (ft/sec): 1 Cascade over riprap Headwall Apron inlet 0.5 outlet 0.5 Wingwall 10-30° or 30-70° Freefall into pool. Structure Water Depth (ft): 1 Structure Length (ft): 1 Trashrack Freefall onto riprap Structure Width (ft): Structure Height (ft): Other Outlet apron Height of Head (ft): 1,2 Perch Height (ft): 1, 2 Other Buried Depth of Structure (ft):1 inlet outlet Stream Information Yellow Creek Stream Water Velocity (in riffle) (ft/sec): Stream Name: > Bankfull Stream Flow: None < 1/2 Bankfull < Bankfull = Bankfull Water Depth (in riffle) (ft): 6.5 Bankfull Width (in riffle) (ft): 16 Stream Width (in riffle) ft: 5 / / Upstream Pond Length & Width (ft): 2 Scour Pool Length, Width & Depth (ft):2 Fish Passage Information Yes NB Yes Is there ponding upstream? Is the structure perched? Yes No Is the structure fully backwatered? Yes (NO) Is there a scour pool at the outlet? Is there a change in head from the upstream Yes) Yes No No Is there substrate through the structure's entire length? side to downstream side? Is the structure narrower than the bankfull Does the structure substrate match the stream Ves (No Yes No substrate? stream width? Is water in the structure moving faster than in the (ملا) Yes ďΝο Is there debris blocking the inlet? Yes stream?

NO

Yes

Is water in the structure shallower than in the stream?

Is there evidence of overtopping or wash-outs?

No

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			3 (14)
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			(ic)
5			

Photos				
☐ Site ID	☐ Inlet			
☐ Road Approach – Left		Outlet		
☐ Upstream Conditions	☐ Road Approach – Right			
	Downstream Conditions			
Fish Passage Determin	nation			
	ne "nassahility" for a range of the	holds may need to be modifi	ed if the o	bjective is
Passability = 0				
If any of the following questions car	n be answered "yes", then the crossing barrier so	pecies and life stages canno	t pass at r	nost flows.
		0,0	Yes	No
3. The ratio of the structure water	greater than 3 feet/second during baseflow. r depth to stream water depth is less than 0.1.		Yes	No
Structure water depth:	Stream water depth is less than 0.1. Stream water depth:		Yes	No
	Stream water depth:	Depth Ratio:		
Passability = 0.5	Some speci			
If any of the following questions can	be answered "yes", then the crossing barrier sco	les and/or life stages cannot	pass at n	ost flows.
The water depth in the structure The structure water depth.	e is less than 0.2 feet	ore = 0.5.		
The structure water velocity is 3	1-3 foot/see		Yes	No
3. The structure is longer than 30 f	rest reet/second during baseflow. feet and does not have natural substrate through	ito ontino I	Yes	No
Passability = 0.9		its entire length.	Yes	No
If any of the following questions can	be an	D	avnion at L	. 1 .01
1. There is a scour pool below the s	be answered "yes", then the crossing barrier sco	re = 0.9.	arrier at n	igh flows.
The ratio of the structure width:	to stream bankfull width is less than 0.5.		Yes	No
Structure width:	Stream hankfull with its less than 0.5.		Yes	No No
- Chinese Live -	Stream bankfull width:	Constriction Ratio:	163	NO
Passability = 1		-		
 The outlet of the structure is not The structure water and the structure is not 	e answered "yes", then the crossing barrier score perched.	= 1.	Not	a barrier.
The structure water velocity is les	and an		Yes	No
4. The water donth in the	ss than 2 feet/second during baseflow. lepth to stream water depth is greater than 0.1.		Yes	No
4. The water depth in the structure is not a scour pool below the	is greater than 0.2 feet.		(Yes)	No
			Yes	No
7. The structure is longer than 30	ne structure. Distream bankfull width is greater than 0.5. The structure of the structure		Yes	No
The structure is shorter to	nas natural substrate through its onting	length, or	Yes	No
- The structure is shorter than 30) feet and has natural substrate through its entire) feet and does not have natural substrate throug	elength, or thits entire length	Yes	No
dditional Commonts		Sittle length.		

Additional Comments

Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW7-ROAD



UPSTREAM



DOWNSTREAM

Stream Crossing Data Sheet				Site ID:	PLW	8	
General Information							
Name of Observer(s): Snel/				Date:	07/2	, /,	
Observer(s): 2ne//			GPS	Date:	0//2	110	
GPS Waypoint: Additional Location Comments:			Lat/Long:				
Road Information							
Road Name/Number: Hollywood							
Road Type: Federal State county	Town	Т	ribal P	rivate Other:			
Road Surface: Paved Gravel Sand	Nativ	e Surfa	ce	Other:			
Road Width (ft): ZZ Fill Depth (ft):	5	-					
Crossing Information							
Structure Type: Culvert(s) no.:/ Bridge	Ford	Ι	Dam Oth	ner:Structu	re ID:		
Structure Shape Structure Material	Substra	ate in S	tructure	Structure Condition			
Round	Non	9	Sand	General Condition:	New Good	Fair	Poor
Square/Rectangle Concrete	Grav	rel	Rock	Plugged: % In	let Outle	t In	Pipe
Open Bottom Square/Rectangle Plastic		Mixt	ure	Crushed % In	let Outle	t In	Pipe
Pipe Arch Wood				Rusted Through?	Yes	No	0
Open Bottom Arch Structure In	nterior			Inlet Type	Outle	t Type	:
Ellipse Smooth	or Cor	rugated	i	Projecting Mitered	At stream gr	ade	
Structure Water Velocity (ft/sec): 1				Headwall Apron	Cascade ove	r riprap	
Structure Water Depth (ft): inlet	c	outlet	1.1	Wingwall 10-30° or 30-70°	Freefall into	pool.	
Structure Length (ft): 1 /00				Trashrack	Freefall onto	riprap	
Structure Width (ft): 6 Structure F	leight (ft): 1	6	Other	Outlet apror	า	
Perch Height (ft): 1, 2 Height of H	lead (ft): ^{1, 2}			Other		
Buried Depth of Structure (ft): inlet	(outlet					
Stream Information							
Stream Name: Yellow Creek			Stream Wa	ater Velocity (in riffle) (ft/	/sec): で	2-4	
Stream Flow: None (½ Bankfu) < Bankfull	= Bankf	ull >	Bankfull				
Water Depth (in riffle) (ft): Bankfull Wid	dth (in r	riffle) (f	t): /	2 Stream Width (in	riffle) ft:	3	
Scour Pool Length, Width & Depth (ft):2	/		Upstrean	n Pond Length & Width (ft): ²	-	
Fish Passage Information	1	1 1				· ·	~
Is the structure perched? Is there a scour pool at the outlet?	Yes	(K)		nding upstream? ture fully backwatered?		Yes	(A)
Is there a scour pool at the outlet? Is there substrate through the structure's entire length?	Yes	1	Is there a ch	nange in head from the up	stream	Yes	(NG)
Does the structure substrate match the stream	-			nstream side? ture narrower than the bar	nkfull		
substrate?	Yes	No	stream widt			(TES)	No
Is water in the structure moving faster than in the stream?	Yes	(M)	Is there deb	oris blocking the inlet?		Yes	WÔ
Is water in the structure shallower than in the stream?	Yes	GA	Is there evid	dence of overtopping or wa	ash-outs?	Yes	6ND

Number multiple cells from left to right facing downstream. Include a diagram below indicating which culvert is culvert #1.

Culvert #	Width (ft)	Height (ft)	Length (ft)
2			
3			

Culvert #	Width (ft)	Height (ft)	Length (ft)
4			
5			

1000 0

Photos			
☐ Site ID	☐ Inlet	☐ Outlet	
☐ Road Approach – Left	Road Approach – Right		
■ Upstream Conditions	Downstream Conditions		
Fish Passage Det	termination		
	determine "passability" for a range of fish species. a particular species. Answer all questions.	Thresholds may need to be modified if the ob	jective is
Passability = 0		Most species and life stages cannot pass at m	ost flows.
If any of the following que	estions can be answered "yes", then the crossing bar	rrier score = 0.	
1. The outlet of the stru	cture is perched.	Yes	No
2. The structure water v	elocity is greater than 3 feet/second during baseflow	w. Yes	No
3. The ratio of the struc	ture water depth to stream water depth is less than	0.1. Yes	No
Structure water depth:	Stream water depth:	Depth Ratio:	
Docashility - 0 F	Som	ne species and/or life stages cannot pass at m	ost flows.
Passability = 0.5	estions can be answered "yes", then the crossing bar		
	ne structure is less than 0.2 feet.	Yes	No
2. The structure water \	elocity is 2-3 feet/second during baseflow.	Yes	No
3. The structure is longer	er than 30 feet and does not have natural substrate	through its entire length.	No
		Barrier at h	righ flows.
Passability = 0.9	estions can be answered "yes", then the crossing ba		
		Yes	No
1. There is a scour pool	ture width to stream bankfull width is less than 0.5.	Yes	No
Structure width:	Stream bankfull width:	Constriction Ratio:	
-		Not	t a barrier.
Passability = 1			, a barrier,
	stions can be answered "yes", then the crossing barr	Yes	No
	ucture is not perched.	Yes	No
2. The structure water	velocity is less than 2 feet/second during baseflow.		No
3. The ratio of the struc	ture water depth to stream water depth is greater t	Yes	No
	he structure is greater than 0.2 feet.	Yes	No
5. There is not a scour	oool below the structure.		No
6. The ratio of the struc	ture width to stream bankfull width is greater than	0.5.	
7. The structure is lo	nger than 30 feet and has natural substrate through	thits entire length, or Yes	No
☐ The structure is sh ☐ The structure i	norter than 30 feet and has natural substrate throug norter than 30 feet and does not have natural substr	rate through its entire length.	
Additional Common and a			

Additional Comments

Culvert diagram, erosion, channel condition, evidence of wash-out, beaver, local testimony of frequency of overtopping...

Farm crossing ~ 1000' d/s -appears to be 72" cmp

¹ Fill out for primary culvert (culvert #1). If multiple culverts are used, see reverse.

²Fill out, if present.



YLW8- UPSTREAM



DOWNSTREAM