## New Mexico Environment Department Surface Water Quality Bureau LEVEL 1 Hydrology Determination Field Sheet

Date:			Time:		Evaluators:				
Stream Name:				Site	Des	cription:			
WQS as found under	NMAC (20.6.4):			Ass	essm	ent Unit	:		
Starting Latitude:				Enc	ling L	atitude:			
Starting Longitude:	de: Ending Longitude:								
Starting Elevation:	ng Elevation: Ending Elevation:								
TOTAL POINTS*:									
*See Hydrology Prot	ocol for determir	ation						1	
WEATHER CONDITIONS	DROUGHT CONDITIONS:			Nearest weather station:		PAST 48 HOURS**:		CURREN	TLY**:
	12-mo. SPI Value:				storm (heavy rain)		storm (heavy rain)		
	12-mo. SPEI Value:				rain (steady rain)		rain (steady rain)		
	Drought Condition:			Precipitation past 48 hours:	intermittant rain		intermittant rain		
	Obtained from:		% cloud cover		% cloud cover				
	Date Obtained:				clear/sunny		clear/sunny		
	**Field evaluations should be performed at least 48 hours after the last major rainfall event.								
	Nearest Stream Modification (description and proximity):								
SITE OBSERVATIONS	Nearest Diversion (description and proximity):								
ALONG ENTIRE REACH	Nearest Discharge (description and proximity):								
	Include any and all modifications/discharges and diversions regardless of perceived impact to hydrologic regime along with any field observations								
CALCULATIONS FOR DETERMINING	Thalwag Height (#1)	Bankfull Height (#2)		Change in Height (#1 - #2)		nt (#1 -	Change in Height x 2 (#3)	Flood-prone Area Height (#1-#3)	
FLOODPLAIN AND CHANNEL									
DIMENSIONS	Flood-prone width:								
(Use for 1.8 on Field	Bankfull Width:								
Survey)	Flood-prone Width to Bankfull Width Ratio:								
	Alternative Methods used (describe)?								
	Time	Photo #		Description		Identifiable References		Photographer	
PHOTO DOCUMENTATION									
(include additional									
photographs as									
attachment)									
OTHER SITE CHARACTERISTIC NOTES/ SCHEMATICS						<b>EIVI</b> er Quality	ED Control Commission	on at 11:34	am, May 21, 2020

LEVEL 1	Stream Condition (identify all that apply then choose most prominent score)						
INDICATORS	Strong	Moderate	Weak	Poor			
	☐ Flow is evident	■ Wet Channel	□ Dry Channel with	□ Dry Channel			
	throughout reach	☐ Flow is barely	standing pools	☐ Dry under rocks/debris			
	☐ Flow is observed in	discernable	☐ Saturated or moist	■ No evidence of base			
	riffles	☐ Floating object needed	sediment under	flows			
1.1	☐ Flow may not be	to observe flow	rocks/debris				
Water In Channel	evident in runs		☐ Evidence of base flows				
	6	4	2	0			
	Notes/Comments:						
1.2	☐ Found easily	☐ Found with little		☐ Not present (after 10 or			
	☐ Found consistently	difficulty	or more minutes of	more minutes of			
	throughout reach	☐ Not consistent	searching)	searching)			
1.2		throughout reach					
Fish in Channel	3	2	1	0			
	Species Observed and						
	Notes/Comments:						
	☐ Found easily	☐ Found with little		☐ Not present (after 10 or			
1.3	☐ Found consistently	difficulty	or more minutes of	more minutes of			
	throughout reach	■ Not consistent	searching)	searching)			
Benthic		throughout reach					
Macroinvertebrates in Channel	3	2	1	0			
in Channel	Species Observed and						
	Notes/Comments:						
	☐ Found easily	☐ Found with little	☐ Found with difficulty (10	☐ Not present (after 10 or			
1.4	☐ Found consistently	difficulty	or more minutes of	more minutes of			
Filamentous	throughout reach	■ Not consistent	searching)	searching)			
Algae/Periphyton in		throughout reach					
	3	2	1	0			
Channel	Notes/Comments:	_	_				
	☐ Dramatic compositional	☐ Distinct riparian	☐ Minimal compositional	☐ No compositional			
	species difference	corridor exists but not	species difference	species difference			
	between upland and	along entire reach	between upland and	between upland and			
	riparian corridor	☐ Compositional species	riparian corridor	riparian corridor			
	☐ Distinct riparian	difference between upland	1 · ·	☐ Vegetation growing			
1.5	corridor exists along entire	and riparian corridor	along the riparian area	along the riparian cooridor			
Vegetation along	reach	☐ Riparian species	occurs in greater density	does not occur in greater			
cooridor (within	☐ Riparian, aquatic or	interspersed with upland	or grows more vigorously	density or grow more			
floodplain)	wetland species dominate	species	than in the adjacent	vigorously than in the			
	entire reach	Species	uplands	adjacent uplands			
	3	2	1	0			
	Species Observed and	2	1	U			
	Notes/Comments:						
	☐ Rooted upland plants	☐ There are a few rooted	☐ Rooted upland plants	☐ Rooted upland plants			
	are absent within the	upland plants within the	are consistently dispersed	are prevalent within the			
1.6	streambed/thalweg	streambed/thalweg	throughout the	streambed/thalweg			
Rooted Upland			streambed/thalweg				
Plants in Channel	3	2	1	0			
	Species Observed and		<u>-</u>				
	Notes/Comments:						
			SUBTOTAL (1.1-1.6)				

	☐ Calculated ratio > 1.4		lated ratio 1.4 <>	☐ Calculated ratio	1.2 <>	☐ Calculated ratio = 1.0		
	□ Numerous closely 1.2		le e e de	1.0		☐ Completely straight		
Sinuosity of	spaced bends	☐ Mostly bends		☐ Few bends				
Segment (for length	☐ Few straight sections	☐ Some straight sections		☐ Mostly straight	sections			
no less than two	than two 3 2		2	1		0		
meanders)	☐ Calculated	Notes/Co	omments:					
	☐ Observed		1					
	☐ Calculated ratio > 2.5		☐ Calculated ratio 2.5 <> 1.2		☐ Calculated ratio < 1.2			
	☐ Minimally confined		☐ Moderately co			d/confined channel		
1.8	☐ Wide, active floodplain		☐ Floodplain active during larger		☐ Flooplain absent or narrow			
Floodplain and Channel Dimensions			events		☐ Floodplain not connected			
		T	1.5			0		
	□ Calculated Notes/Comments:							
	☐ Observed			·		I—		
1.9	☐ Frequent number of		requent number	☐ Mostly has areas of		☐ No riffles or pools		
	riffle and pools observed of riffle a		-	pools <u>or</u> of riffles		observed		
in-( nannoi	throughout reach	☐ Transition between						
Structure: Riffle-			d pools difficult to					
Pool Sequence	between riffles and pools	distingui				0		
1 ooi sequence	3		2	1		0		
	Notes/Comments:							
	T		1—	SUBTOTAL	•			
	☐ Particle sizes in the chan		☐ Particle sizes in			le sizes in the channel are		
	noticeably different from pa		moderately similar to particle sizes		similar or comparable to particle			
	sizes outside the channel in	the	outside the channel in the flood-		sizes outside the channel in the			
_	flood-prone area.	prone area.		flood-prone area.				
Particle Size or	☐ Clear distribution of vario		☐ Various sized substrates are		☐ Substrate sorting is not readily			
Stream Substrate	substrates in the stream ch	present in the stre		observed	d in the stream channel.			
Sorting	☐ Higher ratio of			larger particles				
	3	gravel/cobble) 1.5		0				
	☐ Calculated Notes/Comments:							
	☐ Observed			_				
1.11	☐ Hydric soils wer	e observe	ed in reach	☐ Hydric soils were not observed in reach  0				
Hydric Soils Within		3						
Flood-Prone Area	Notes/Comments:							
	☐ Sediment found readily			· ·		☐ No sediment is present		
	on plants and debris in:	on plants and debris in: prevalen		debris is isolated i	n small	on plants or debris.		
1.12	☐ channel	debris.		amounts along the	e sample			
Sediment on Plants	☐ streambank		ent mostly	reach.				
and Debris	• • • • • • • • • • • • • • • • • • •		ted on plants and					
ana 200113	1.5	debris in		0.5		0		
			1	0.5		U		
	Notes/Comments:							
1.13	☐ Seeps and/or springs present in		eacn	☐ Seeps and/or springs not present in reach				
Seeps and Springs	1.5			0				
	Notes/Comments:		In					
1.14	Oxidizing 1.5			☐ Iron-oxizing bacteria/fungi not pressent in reach				
Iron Oxidizing						0		
Bacteria/Fungi	Notes/Comments:							
				TOTAL POINTS (1	l.1-1.14)			
	etermined to be EPHEMERAL.							
Total ≤9 and <12, the stream is determined to be INTERMITTENT until further analysis indicates otherwise								
Total ≥ 12.0 and ≤ 19.0, the stream is determined to be INTERMITTENT  Total > 19.0 and ≤ 22.0, the stream is determined to be PERENNIAL until further analysis indicates otherwise								
10(9) > 13.0 9110 > 55.0 1	Total > 22.0, the stream is determined to be PERENNIAL.							