

**Middle Yuba River  
Habitat Mapping Data**

**Yuba County Water Agency Hydroelectric Project  
FERC 2246**

Middle Yuba – Ground-based Habitat Mapping Data

Stream: Middle Yuba River		Reach: Entire		Date: 9/1/2009	Parent Material: Volcanic, granite/granodiorite, metasedimentary		Map Gradient (%): 1.2%																										
Date	Section Number	Ordered Unit #	Original Unit #	Unit Habitat Type	Length (ft)	Cum. Length (ft)	River Mile	Est avg BFW (ft)	BFD (ft)	Est avg pool depth (ft)	Max. pool depth (ft)	Pooltail embed-dedness (%)	Cover	Dominant substrate	Sub-dominant substrate	Dominant bank substrate	Erosion (ft)	FPW	Confinement	Flag/Label	Flag Description	Trib cfs	Landmarks or Photos	Total LWD (bankful)	Total LWD wetted width	Fish Migration Barrier?	Total Spawnable gravel area (sq. ft.)	Max spawning gravel patch (sq ft)	Northing	Easting	Post-Field Changes	Comments	
9/14/2009	MY > NY jcn		1	MCP	463	463	0.00	61.67		4.75	10	15	BLDR	BLD	COB	BED			1	Y	base	N	DTA1 1368		N			660581	4359336		U1 pool at helicopter landing. Could be trenchpool, but slow, so MCP Barrier 4-8' + permanent (Barrier UTM: 0660693/ 4359389) True cascade, huge boulders 12% gradient.		
9/14/2009	MY > NY jcn		2	CAS	125	588	0.11	66.33					BLDR	BLD	BLD	BED			1	N		N	DTA1 1369		Y			660693	4359389		U3 slightly divergent channel around big rocks! Short rapid forms a control between 2 sections of pocket water. 12' brown trout! Still boulder and scour holes, heterogenous substrate, more pool-like at bottom, run in middle.		
9/14/2009	MY > NY jcn		3	POW	110	698	0.13	74.5					BLDR	BLD	SND	BED			1	N		N	DTA1 1370		N	10	10				step-run: distinct steps separated by short cascades. 4% gradient. 15% gradient.		
9/14/2009	MY > NY jcn		4	STEP	90	788	0.15	62.67					BLDR	BLD	BLD	BED			1	N	top	N	DTA1 1371		N	26	18				sandy bank; RBA with pooling from high flows		
9/14/2009	MY > NY jcn		5	CAS	35	823	0.16	80		4	8	0	BLDR	BLD	BLD	BED			1	N		N	DTA1 1372		N			66078	4359472				
9/14/2009	MY > NY jcn		6	TRP	216	1039	0.20	75.33					BLDR	BLD	BLD	BED			1	N		N	DTA1 1373		N	12	12						
9/14/2009	MY > NY jcn		7	PLP	10	1049	0.20	50		4.25	9		BLDR	BLD	BLD	BED			1	N		N	DTA1 1374		N								
9/14/2009	MY > NY jcn		8	CAS	28	1077	0.20	75					BLDR	BED	BLD	BED			1	N		N	DTA1 1375 hole from LBA, 1376 LUS		Y			660710	4359581		5' permanent barrier (barrier UTM: 0660710/ 4359581), 15% gradient		
9/14/2009	MY > NY jcn		9	POW	105	1182	0.22	67.5					BLDR	BLD	COB	BED			1	N		N	DTA1 1378 LDS to LBA		N								
9/14/2009	MY > NY jcn		10	PLP	125	1307	0.25	66		10	5		BLDR	BED	BLD	BED			1	Y	mid	N	DTA1 1377 LUS		N			660691	4359615		Deep and inaccessible - estimated depth from above. Photo DTA1 1379 of transition between HAB #9 and #10 - poor control but different pool types. Very difficult to access HAB #9 & #10; deep waters & sheer bedrock walls. #10 flagged on RBA cliff lip above pool (only area accessible) also UTM's see above. stopped at HMU #10 - too steep and dangerous to continue, 15% gradient.		
9/14/2009	MY > NY jcn		11	CAS	60	1367	0.26	40																									
9/14/2009	MY > NY jcn		12	STEP	95	1462	0.28	75																									
9/14/2009	MY > NY jcn		13	CAS	50	1512	0.29	75																									
9/14/2009	MY > NY jcn		14	MCP		1512	0.29																DTA1 1380 shows entire sequence DTA1 1466, 1467										flag red where stopped on cliff above #10 labelled "MY +NY HMU 10"
9/16/2009	< Hwy 49		1	RUN	74	74	4.20	41.67	2.25				BLDR	BLD	COB	BLD			4	N	private land	N	LDS		N			664876	4361734		modified tail from artificial dam		
9/16/2009	< Hwy 49		2	LGR	63	137	4.21	41.33					INSIGNIF	COB	BLD	BLD			4	N		N	DTA1 1468		N								
9/16/2009	< Hwy 49			SPLIT	470	607	4.30						BLDR	COB	GRV	BLD			1	N		N	DTA1 1469		N	1046 LBA, 149 RBA	480 LBA, 120 RBA						LBA = LGR > GLI > LGR, RBA = LGR > GLI > LGR > GLI > LGR frog, green algae
9/16/2009	< Hwy 49		3	LAP	382	989	4.37	141.5		1.5	3.5	50	INSIGNIF	GRV	COB	BLD			1	N		N	DTA1 1470		N	too embedded						GLI @ tail but still scour on LBD so not separated. Goes quickly into cat tails RBD	
9/16/2009	< Hwy 49		4	LGR	223	1212	4.42	113.67					INSIGNIF	COB	BLD	BLD			1	N		N	DTA1 1471		N		165	72				Artificial pool from mining; didymo and green algae; split but from mining, LGR 2%, character dom.	
9/16/2009	< Hwy 49		5	RUN	88	1300	4.43	118.5					INSIGNIF	COB	BLD	BLD			1	Y	at top	N	DTA1 1472		N		119	108	664908	4362124		dug out, modified split, but overall form run (not modelable)	
9/16/2009	< Hwy 49		6	LGR	129	1429	4.46	115.67					BLDR	BLD	COB	BLD			1	Y	at base	N	DTA1 1473		N		26.5	6				run on LBD, surface agitation but generally LGR, 1% NM - SPLITS, multi thread	
9/16/2009	< Hwy 49		7	RUN	140	1569	4.48	90.33					BLDR	BLD	COB	BLD			1	N		N	DTA1 1474		N		39	36				Split near top with some riffle LBA, HF Ch. RBA	
9/16/2009	< Hwy 49		8	LGR	85	1654	4.50	89.67	2				BLDR	COB	BLD	BLD			1	N		N	DTA1 1475		N		42	18				1.5%, boulders on LBA - more run-like, next unit pool under bridge HWY 49	
9/13/2009	> Oregon Creek		1	STEP	388	2042	4.50	51.2		1.75			BLDR	BLD	BLD	BLD			1	Y	at base	N	DTA1 1333		0	0	163.5	72	665105	4362264		gradient 4.5%, step-run with riffle - step characteristics on half or less of channel punctuating. Difficult to model due to oblique flow and multiple water surfaces	
9/13/2009	> Oregon Creek		2	MCP	258	2300	4.55	66		2.875	6	15	BLDR	BLD	BLD	BLD			1	N		N	DTA1 1334		0	0	0	0					artificial downstream control - boulder dam, 15% embedded; staff gauge with no housing - out of water half thru habitat; top at pool greatly modified for slough-boxes not characteristic of entire pool
9/13/2009	> Oregon Creek		3	LGR	49	2349	4.56	61.5					INSIGNIF	BLD	COB	BLD			1	N		N	DTA1 1335		0	0	0	0					selected boulder as bank substrate since the field was left blank on original data sheet
9/13/2009	> Oregon Creek		3	MCP	167	2516	4.59	57.33		3.4	7	na	BLDR	BLD	GRV	BED			1	N		N	DTA1 1336		0	0	504	504					spawning gravels in this habitat but frequent modification for slough - boxes, so unmeasurable, 2% gradient
9/13/2009	> Oregon Creek		4	HGR	102	2618	4.61	42					BLDR	BLD	BED	BED			1	Y	at top	N	DTA1 1337		0	0	0	0					tail of pool very modified, but lots of spawning gravel
9/13/2009	> Oregon Creek		5	LGR	170.5	2788.5	4.64	39.67					BLDR	BLD	SND	BLD			3	Y	at base	N	DTA1 1338		0	0	0	0	665372	4362171		modelable sections, 7% gradient	
9/13/2009	> Oregon Creek		6	HGR	40	2828.5	4.65	42.33					BLDR	BLD	BLD	BLD			3	N		N	DTA1 1339		0	0	0	0					High-flow side channel, 4% gradient; excellent modelability; Carex nudata - great bank stabilizer, establishes sediment in high turbidity areas both banks 70% coverage. Elevated flood plain LBA (same size as wetted channel). Some tree-root exposure due to long-term erosion/modifications - not an active erosional feature. High flow side channel on LBA. 3% gradient.
9/13/2009	> Oregon Creek		7	MCP	88.5	2917	4.67	53		2.6875	5		BLDR	BLD	BLD	BLD			3	N		N	DTA1 1341 = control/dam, 1342 pool, 1343, 1344 = bank		0	0	0	0					Highly modified riffle-crest - dammed above pool with boulders and cobble, 8% gradient
9/13/2009	> Oregon Creek		8	RUN	124	3041	4.69	57.33					BLDR	BLD	BLD	BLD			3	N		N	DTA1 1345		0	0	1	1					Dammed pool "DO NOT MODEL", destabilized banks - dug-out banks creating positive feed-back mechanism
9/13/2009	> Oregon Creek		9	GLI	210	3251	4.73	50					BLDR	BLD	COB	BLD			1	Y	at top	N	DTA1 1346		0	0	6	4					Run, but because of dams & dug out banks, creating pools at banks, and step-pool for length of run. Highly modified; after high-flows remove dams, will probably be a run!
9/13/2009	> Oregon Creek		10	STEP	110	3361	4.75	44.67					BLDR	BLD	COB	BLD			1	Y	at base	N	DTA1 1347		0	0	2	1	665552	4362234		Subdominant bank substrate is SND. Deeper section in middle of glide obviously modified: some erosion due to modification; run like at top, pool-like in middle, narrow cobble bar LBA - elevated flood plain	
9/13/2009	> Oregon Creek		11	MCP	280	3641	4.80	62.25		2.4375	4.75	40	INSIGNIF	COB	BLD	BED			2	N		N	DTA1 1348		0	0	8	3					step-run with short HGR separating steps - lots of catwater
9/13/2009	> Oregon Creek		12	LGR	117	3758	4.83	56					BLDR	BLD	COB	BLD			1	n		N	DTA1 1349		0	0	29	15					10' brown trout, head of pool 28' run - ambiguous start
9/13/2009	> Oregon Creek		13	GLI	321	4079	4.89	57.67			3.5		BLDR	BLD	COB	BLD			1	n		n	DTA1 1350		0	0	21	4					3% gradient, some sandy deposits along shoreline
9/13/2009	> Oregon Creek		14	LGR	223	4302	4.93	65	1.75				BLDR	BLD	BLD	BLD			1	y	at top	n	DTA1 1351		0	0	116	72					3 inch fish, three 4' fish, 2 scour holes 3.5' deep LBA artificially scoured, end of glide oblique - mid - pt taken
9/13/2009	> Oregon Creek		15	RUN	80	4382	4.94	57					BLDR	BLD	BLD	BLD			1	y	at base	n	DTA1 1352		0	0	0	0	665849	4362162			some indistinct stepping, but lots of surface agitation so calling it a run - slight scour pool RBA
9/13/2009	> Oregon Creek		16	LGR	119	4501	4.97	52.33					BLDR	BLD	COB	BLD			1	n		n	DTA1 1353		0	0	43	36					almost pocket water but too much surface agitation
9/13/2009	> Oregon Creek		17	MCP	226	4727	5.01	57		4	8	30	BLDR	BLD	SND	BED			1	n		n	DTA1 1354		0	0	72	72					some flat sections - esp at top (not modelable), 3% gradient
9/13/2009	> Oregon Creek		18	MCP	74	4801	5.02	42.67		1.94	3.5	0	BLDR	BLD	GRV	BED			1	N		N	DTA1 1355		0	0	182	180					scour hole 1/3 width of channel (12x12) at base of channel
9/13/2009	> Oregon Creek		19	STEP	112	4913	5.04	150.33					BLDR	BED	COB	SND			1	y		n	DTA1 1356		0	0	20	18					pinch-point making ds control
9/13/2009	> Oregon Creek		20	MCP	105	5018	5.06	4																									

Middle Yuba – Ground-based Habitat Mapping Data (cont.)

Date	Section Number	Ordered Unit #	Original Unit #	Unit Habitat Type	Length (ft)	Cum. Length (ft)	River Mile	Est avg BFW (ft)	BFD (ft)	Est avg pool depth (ft)	Max. pool depth (ft)	Pooiltail embed-dedness (%)	Cover	Dominant substrate	Sub-dominant substrate	Dominant bank substrate	Erosion (ft)	FPW	Confinement	Flag/Label	Flag Description	Trib cfs	Land-marks or Photos	Total LWD (bankful)	Total LWD wetted width	Fish Migration Barrier?	Total Spawning gravel area (sq. ft.)	Max spawning gravel patch (sq ft)	Northing	Easting	Post-Field Changes	Comments
11/18/2009	MY < OH Dam (SWS)		41	HGR	30	30	10.85	60					BED	BLDR	BED					Top F/T RL			730-731	0	0 N	0	0	670932	4363668		End survey	
11/18/2009	MY < OH Dam (SWS)		40	RUN	119	149	10.87	47					BED	SND	BED					N				0	0 N	0	0				Cal newt obs on bank.	
11/18/2009	MY < OH Dam (SWS)		106	LGR	255	255	10.89	30					BLDR	COB	BED					N			729	0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		38	RUN	92	347	10.91	31					COB	BLDR	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		37	MCP	74	421	10.92	34		3	5.5		COB	BLDR	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		36	MCP	154	575	10.95	45		4	7		BLDR	COB	BLDR					Bottom F RL				0	0 N	0	0	671088	4363676			
11/18/2009	MY < OH Dam (SWS)		35	RUN	57	632	10.96	40					BLDR	BED	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		34	MCP	98	730	10.98	37		4	7		BLDR	BED	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		33	MCP	181	911	11.02	60		6	10		BLDR	COB	BED					N	0 cfs (RR)			0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		32	HGR	164	1075	11.05	35					BLDR	COB	BED					N			727	1	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		31	RUN	46	1121	11.06	45					BLDR	COB	BLDR					Top F RR				3	2 N	0	0	671274	4363623		Boulder Bar River Left	
11/18/2009	MY < OH Dam (SWS)		30	LGR	75	1196	11.07	90					COB	BLDR	BLDR					Bottom F RR			726	0	0 N	0	0				Boulder Bar River Left	
11/18/2009	MY < OH Dam (SWS)		29	STEP	89	1285	11.08	70					BLDR	COB	BLDR					N			725	0	0 N	0	0				Complex "splits"	
11/18/2009	MY < OH Dam (SWS)		28	RUN	144	1429	11.11	40					COB	BLDR	BLDR					N			723-724	0	0 N	0	0				Frog obs. Photos 723-724	
11/18/2009	MY < OH Dam (SWS)		27	STEP	144	1573	11.14	40					COB	BLDR	BLDR					N			722	0	0 N	0	0				Step RUN	
11/18/2009	MY < OH Dam (SWS)		26	MCP	424	1997	11.22	70		5	10		SND	BLDR	BED					N			720-721	1	1 N	0	0	671546	4363556		Miners camp and cobble bar on RR. Cable crossing mid-pool. GPS at Top of unit.	
11/18/2009	MY < OH Dam (SWS)		25	STEP	197	2194	11.26	60					BLDR	COB	BED					Bottom F RL			719	0	0 N	15	15				Step RUN	
11/18/2009	MY < OH Dam (SWS)		24	MCP	230	2424	11.30	60		4	7		BLDR	SND	BED					N				0	0 N	100	25				Fish observation. Max spawning gravel patch is from dredger tailings.	
11/18/2009	MY < OH Dam (SWS)		23	RUN	67	2491	11.32	35					BLDR	COB	BED					N				0	0 N	25	25					
11/18/2009	MY < OH Dam (SWS)		22	LGR	121	2612	11.34	35					BLDR	COB	BED					N			718	0	0 N	0	0				HGR at top, runny at bottom - complex. Cattails on RR.	
11/18/2009	MY < OH Dam (SWS)		21	MCP	304	2916	11.40	52		6	9		SND	BLDR	BED					Top F/T RR			716-717	1	1 N	0	0	671754	4363761		GPS taken at top of unit.	
11/18/2009	MY < OH Dam (SWS)		20	RUN	87	3003	11.41	35					BLDR	BED	BED					Bottom F/T RR			715	0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		19	PLP	143	3146	11.44	32		5	8		BLDR	GRV	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		18	HGR	139	3285	11.47	37					BLDR	COB	BED					N			711 - 714	0	0 N	0	0				Miners dredging supplies on RR photos 712 and 713. CAS at base.	
11/18/2009	MY < OH Dam (SWS)		17	RUN	197	3482	11.50	40					COB	BLDR	BED					F Top RR			710	0	0 N	0	0				Potential miners trail RR (ladder). Step at 113 ft.	
11/18/2009	MY < OH Dam (SWS)		16	MCP	363	3845	11.57	50		6	10		SND	GRV	BED					N				1	1 N	25	25	671939	4363954		Narrow bedrock canyon. Large gravel deposit at tail. GPS at top of unit	
11/18/2009	MY < OH Dam (SWS)		15	HGR	71	3916	11.59	50					BLDR	COB	BED					N			709	1	1 N	0	0				Difficult access beyond this point downstream.	
11/18/2009	MY < OH Dam (SWS)		14	RUN	78	3994	11.60	40					BLDR	COB	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		13	LGR	55	4049	11.61	50					BLDR	COB	BLDR					N				0	0 N	0	0				HGR step at top, backwater pool	
11/18/2009	MY < OH Dam (SWS)		12	MCP	63	4112	11.62	43		2	4		BLDR	GRV	BLDR					T/F RL			706-708	0	0 N	0	0				Potential fish site.	
11/18/2009	MY < OH Dam (SWS)		11	RUN	166	4278	11.65	55					BLDR	COB	BED					N			704-705	2	2 N	0	0	672024	4364037		Potential fish site.	
11/18/2009	MY < OH Dam (SWS)		10	LGR	216	4494	11.70	53					BLDR	COB	BED					N			703	1	1 N	0	0				Complex with POW, RUN, and HGR, steps.	
11/18/2009	MY < OH Dam (SWS)		9	RUN	90	4584	11.71	38					BLDR	COB	BED					N				0	0 N	0	0				Good fish unit. Max depth = 3.5 ft	
11/18/2009	MY < OH Dam (SWS)		8	POW	40	4624	11.72	30					BLDR	COB	BED					Top F RR				0	0 N	0	0				Good fish unit. Max depth = 2 ft	
11/18/2009	MY < OH Dam (SWS)		7	RUN	115	4739	11.74	60					SND	GRV	BLDR					Bottom F RR			702	0	0 N	0	0				run/pool unit good fish unit	
11/18/2009	MY < OH Dam (SWS)		6	POW	101	4840	11.76	30		2.5	3		BLDR	COB	BLDR					N			701	0	0 N	0	0	672196	4364153		Good fish unit. Avg. Depth = 2.5 ft Max Depth = 3.0 ft	
11/18/2009	MY < OH Dam (SWS)		5	MCP	120	4960	11.78	50		4	6		BLDR	GRV	BED					Top F/T RL			700	0	0 N	0	0				Difficult but possible e-fish unit. Consider reduced discharge.	
11/18/2009	MY < OH Dam (SWS)		4	HGR	48	5008	11.79	60					BLDR	COB	BED					N			699	0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		3	LGR	83	5091	11.81	70					BLDR	COB	BED					N				0	0 N	0	0					
11/18/2009	MY < OH Dam (SWS)		2	MCP	153	5244	11.84	50		4	6		BLDR	SND	BED					N			698	0	0 N	8	8					
11/18/2009	MY < OH Dam (SWS)		1	PLP	168	5412	11.87	65		4	6		SND	BLDR	BED					N			697	0	0 N	0	0	672312	4364274		HGR and USGS pool at top	
9/16/2009	MY < OH Dam		1	MCP	130	5542	11.87	60		5	10 na		BLDR	BLD	SND	BED				2 Y	at top	N	DTA1 1442 LDS	0	0 N	0	0	671924	4363951		difficult access to bottom - lot, UTM's taken at top of pool - between U1 and U2, PHOTO DTA1 1443 LDS from near top of U1	
9/16/2009	MY < OH Dam		2	CAS	73	5615	11.89	55.67					BLDR	BLD	BED	BED				1 N		N	DTA1 1444	0	0 N	0	0				1% gradient	
9/16/2009	MY < OH Dam		3	RUN	68	5683	11.91	48					BLDR	BLD	COB	BLD				1 N		N	DTA1 1445	0	0 N	26	12				large boulders on margin	
9/16/2009	MY < OH Dam			SPLIT	70	5753	11.92	57.67					BLDR	BLD	COB	BED				1 N		N	DTA1 1446	0	0 N	16	6				5% gradient, half channel is step run, half is HGR	
9/16/2009	MY < OH Dam		4	MCP	50	5803	11.93	62.5		2.15	4		BLDR	BLD	SND	BLD				2 N		N	DTA1 1447, 1448 LDS	0	0 N	14	6				small flow around boulders RBA, 2 foot long boulder step top of pool, PHOTO DTA1 1449 photo of step at top of U4 from LBA LDS	
9/16/2009	MY < OH Dam		5	RUN	111	5914	11.94	58		3			BLDR	BLD	COB	BLD				1 Y	at top	N	DTA1 1450	0	0 N	13	9	672025	4364028			
9/16/2009	MY < OH Dam		6	LAP	87	6001	11.97	62.33		2.0625	3.5		BLDR	BLD	SND	BLD				1 Y	at base	N	DTA1 1451	0	0 N	0	0	672025	4364028		sandy deposition LBA, scour hole meets min pool requirements, control at base low and maybe inconsequential at high flow	

<b>Stream:</b>	<b>Middle Yuba River</b>																		
<b>Reach:</b>	<b>Entire</b>																		

**Table 1a. Summary Statistics - Mapped Units**

Unit Type	Total Length (ft)	Length Rel Frequency	Number	Number of Units (frequency)	Average width (ft)	Average pool depth (ft)	Average maximum pool depth (ft)	Average pooltail embeddedness (%)
Fall								
Cascade	421	2.7%	7	6.4%	63.4			
Chute	47	0.3%	1	0.9%	22.3			
Rapid	70	0.5%	1	0.9%	26.5			
High Gradient Riffle	1014	6.5%	9	8.2%	53.1			
Low Gradient Riffle	1997.5	12.9%	17	15.5%	62.0			
Glide	531	3.4%	2	1.8%	53.8			
Run	2269	14.6%	23	20.9%	52.9			
Step Run	1225	7.9%	8	7.3%	69.2			
Pocket Water	654	4.2%	5	4.5%	55.5			
Sheet								
Convergence Pool								
Mid-Channel Pool	6182.5	39.8%	30	27.3%	56.8	3.7	6.9	7.9
Lateral Scour Pool	469	3.0%	2	1.8%	101.9	1.8	3.5	25.0
Trench Pool	216	1.4%	1	0.9%	75.3	4.0	8.0	
Plunge Pool	446	2.9%	4	3.6%	53.3	5.8	7.0	5.0
<b>TOTAL</b>	<b>15542</b>	<b>100.0%</b>	<b>110</b>	<b>100.0%</b>	<b>58.9</b>	<b>3.8</b>	<b>6.3</b>	<b>12.6</b>
<b>QC</b>			<b>0</b>		<b>Weighted Average By Length (ft)</b>			

**Table 2. Stream Cover**

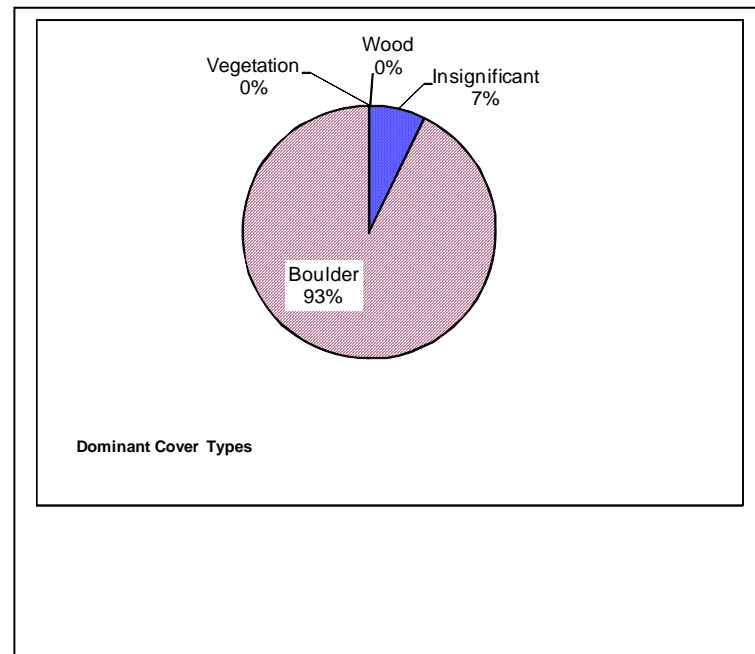
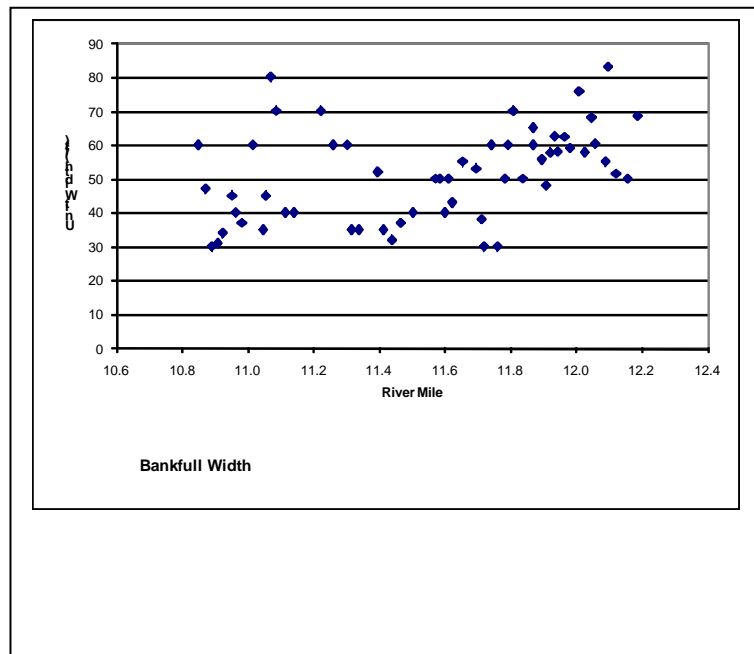
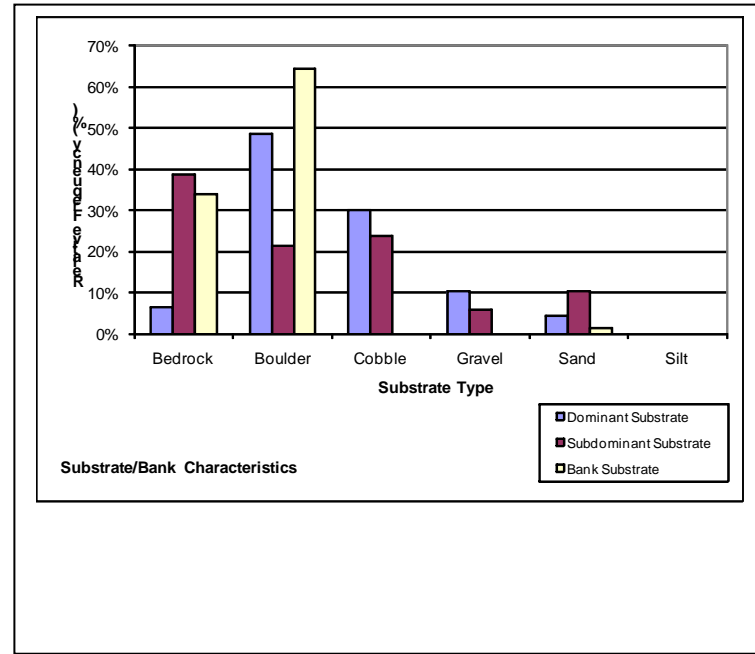
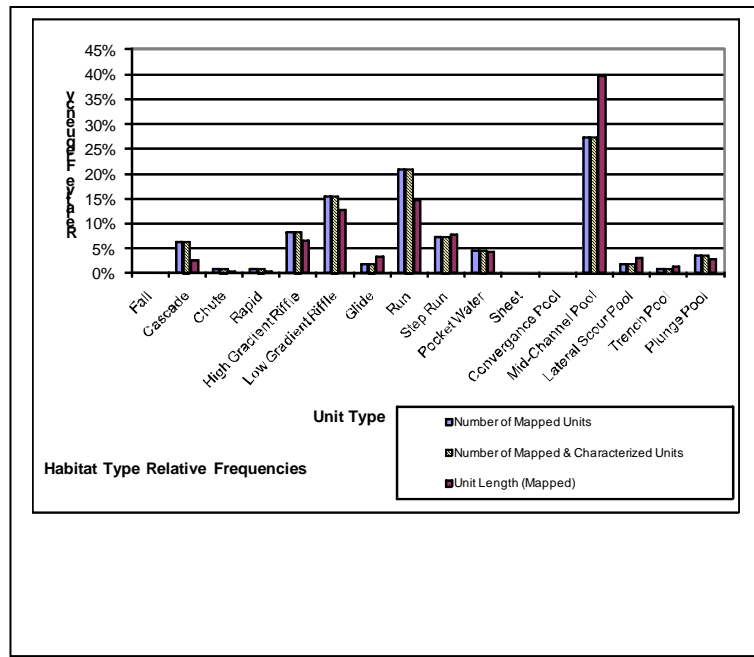
Dominant Cover Type	Number	Relative Frequency
Insignificant	6	7%
Boulder	77	93%
Vegetation	0	
Wood	0	
<b>SUM</b>	<b>83</b>	<b>100%</b>
<b>QC</b>	<b>Error</b>	

**Table 3. Reach Summary**

Total Reach Length:	12.2 mi.	
Total Mapped Length:	2.94 mi.	24.1% mapped
Average Bankfull Width:	58.9 ft.	0.00 mi. charac
Bankfull Depth:	2.5 ft.	24.13% Total m & c
Width:Depth:	24	
Flood Prone Width:	0 ft.	
Entrenchment Ratio:	0.0	
Total Spawnable Gravel:	2,311 ft <sup>2</sup> - trout	
Avg Largest Patch Size:	44 ft <sup>2</sup> - trout	
LWD Density:	5 / mile (bankful)	
Wetted LWD Density:	4 / mile (wetted width)	
Parent Material:	Volcanic, granite/granodiorite, metasedimentar	
Bank Erosion % of Reach:	0.0%	
Tot No. Passage Barriers:	2	

**Table 4. Reach Summary - Substrate and Bank Characteristics**

	Dominant Substrate		Subdominant Substrate		Bank Substrate		Bank Substrate Erosion	
	Total Length (ft)	Length Rel Frequency	Total Length (ft)	Length Rel Frequency	Total Length (ft)	Length Rel Frequency	Total Length (ft)	Length Rel Frequency
Bedrock	723	6.4%	4651	38.7%	2583	34.0%	0	
Boulder	5523	48.6%	2569.5	21.4%	4900	64.5%	10	100.0%
Cobble	3421	30.1%	2859	23.8%	0		0	
Gravel	1186	10.4%	711	5.9%	0		0	
Sand	502	4.4%	1230.5	10.2%	112	1.5%	0	
Silt	0		0		0		0	
<b>SUM</b>	<b>11355</b>	<b>100.0%</b>	<b>12021</b>	<b>100.0%</b>	<b>7595</b>	<b>100.0%</b>	<b>10</b>	<b>100.0%</b>



Middle Yuba River – Habitat Mapping – Video based – From North Yuba/Middle Yuba Junction to Our House Dam

Time	RM	Habitat	Habitat	HM Unit
1:42:50	0.00	18	SPLIT	
1:42:53	0.04	12	MCP	1
1:42:56	0.08	12	MCP	1
1:42:59	0.11	12	MCP	1
1:43:02	0.15	12	MCP	1
1:43:05	0.17	11	POW	3
1:43:08	0.19	10	STEP	4
1:43:11	0.21	2	CAS	5
1:43:14	0.23	14	TRP	6
1:43:17	0.25	15	PLP	7
1:43:20	0.27	11	POW	9
1:43:23	0.29	15	PLP	10
1:43:26	0.31	10	STEP	11
1:43:29	0.33	2	CAS	13
1:43:32	0.35	12	MCP	
1:43:35	0.37	2	CAS	
1:43:38	0.39	2	CAS	
1:43:41	0.41	12	MCP	
1:43:44	0.43	9	RUN	
1:43:47	0.44	12	MCP	
1:43:50	0.46	15	PLP	
1:43:53	0.48	2	CAS	
1:43:56	0.50	11	POW	
1:43:59	0.52	11	POW	
1:44:02	0.54	4	RAP	
1:44:05	0.56	12	MCP	
1:44:08	0.58	14	TRP	
1:44:11	0.60	17	OOV	
1:44:14	0.62	7	LGR	S.C. dry or
1:44:17	0.64	7	LGR	S.C. dry or
1:44:20	0.66	12	MCP	
1:44:23	0.68	12	MCP	
1:44:26	0.70	13	LAP	
1:44:29	0.73	13	LAP	
1:44:32	0.75	12	MCP	
1:44:35	0.78	2	CAS	
1:44:38	0.81	6	HGR	
1:44:41	0.84	11	POW	
1:44:44	0.86	11	POW	
1:44:47	0.89	7	LGR	
1:44:50	0.92	13	LAP	
1:44:53	0.94	13	LAP	
1:44:56	0.97	9	RUN	
1:44:59	1.00	17	OOV	
1:45:02	1.03	9	RUN	
1:45:05	1.05	12	MCP	
1:45:08	1.08	7	LGR	
1:45:11	1.11	13	LAP	
1:45:14	1.13	12	MCP	
1:45:17	1.16	7	LGR	
1:45:20	1.19	7	LGR	
1:45:23	1.21	12	MCP	
1:45:26	1.24	12	MCP	
1:45:29	1.27	12	MCP	
1:45:32	1.30	12	MCP	
1:45:35	1.32	18	SPLIT	
1:45:38	1.35	18	SPLIT	
1:45:41	1.37	8	GLI	
1:45:44	1.39	8	GLI	
1:45:47	1.41	12	MCP	
1:45:50	1.43	12	MCP	
1:45:53	1.45	9	RUN	
1:45:56	1.47	13	LAP	
1:45:59	1.49	13	LAP	
1:46:02	1.51	13	LAP	
1:46:05	1.53	12	MCP	
1:46:08	1.55	9	RUN	
1:46:11	1.57	12	MCP	
1:46:14	1.59	7	LGR	
1:46:17	1.61	18	SPLIT	
1:46:20	1.63	18	SPLIT	
1:46:23	1.65	18	SPLIT	
1:46:26	1.68	13	LAP	
1:46:29	1.70	11	POW	
1:46:32	1.72	17	OOV	
1:46:35	1.74	12	MCP	
1:46:38	1.76	12	MCP	
1:46:41	1.78	6	HGR	
1:46:44	1.80	9	RUN	
1:46:47	1.82	13	LAP	
1:46:50	1.84	11	POW	
1:46:53	1.86	17	OOV	
1:46:56	1.88	7	LGR	
1:46:59	1.90	6	HGR	
1:47:02	1.92	12	MCP	
1:47:05	1.94	4	RAP	
1:47:08	1.96	7	LGR	
1:47:11	1.98	18	SPLIT	
1:47:14	2.00	17	OOV	SHADE
1:47:17	2.02	17	OOV	SHADE
1:47:20	2.04	17	OOV	SHADE
1:47:23	2.07	13	LAP	
1:47:26	2.09	13	LAP	
1:47:29	2.11	18	SPLIT	
1:47:32	2.13	8	GLI	
1:47:35	2.15	12	MCP	
1:47:38	2.17	12	MCP	
1:47:41	2.20	12	MCP	
1:47:44	2.22	12	MCP	
1:47:47	2.24	10	STEP	
1:47:50	2.26	10	STEP	
1:47:53	2.28	7	LGR	
1:47:56	2.30	7	LGR	
1:47:59	2.33	18	SPLIT	
1:48:02	2.35	18	SPLIT	

Time	RM	Habitat	Habitat	HM Unit
1:48:05	2.37	18	SPLIT	
1:48:08	2.39	12	MCP	
1:48:11	2.41	12	MCP	
1:48:14	2.43	13	LAP	
1:48:17	2.46	13	LAP	
1:48:20	2.48	6	HGR	
1:48:23	2.50	7	LGR	
1:48:26	2.52	7	LGR	
1:48:29	2.54	12	MCP	
1:48:32	2.57	12	MCP	
1:48:35	2.59	12	MCP	
1:48:38	2.61	12	MCP	
1:48:41	2.63	13	LAP	
1:48:44	2.65	12	MCP	
1:48:47	2.67	4	RAP	
1:48:50	2.70	14	TRP	
1:48:53	2.72	4	RAP	
1:48:56	2.74	9	RUN	
1:48:59	2.76	14	TRP	
1:49:02	2.78	12	MCP	
1:49:05	2.80	2	CAS	
1:49:08	2.83	9	RUN	
1:49:11	2.85	12	MCP	
1:49:14	2.87	18	SPLIT	
1:49:17	2.89	18	SPLIT	
1:49:20	2.91	18	SPLIT	
1:49:23	2.93	18	SPLIT	
1:49:26	2.96	18	SPLIT	
1:49:29	2.98	8	GLI	
1:49:32	3.00	14	TRP	
1:49:35	3.03	12	MCP	
1:49:38	3.05	11	POW	
1:49:41	3.08	11	POW	
1:49:44	3.10	11	POW	
1:49:47	3.13	11	POW	
1:49:50	3.15	18	SPLIT	
1:49:53	3.18	12	MCP	
1:49:56	3.20	12	MCP	
1:49:59	3.23	8	GLI	
1:50:02	3.25	12	MCP	
1:50:05	3.28	12	MCP	
1:50:08	3.30	18	SPLIT	
1:50:11	3.33	18	SPLIT	
1:50:14	3.35	9	RUN	
1:50:17	3.38	9	RUN	
1:50:20	3.40	13	LAP	
1:50:23	3.42	9	RUN	
1:50:26	3.44	7	LGR	SWS1
1:50:29	3.46	17	OOV	SWS2
1:50:32	3.49	6	HGR	SWS3
1:50:35	3.51	18	SPLIT	SWS3.1
1:50:38	3.53	18	SPLIT	SWS3-9.1
1:50:41	3.55	18	SPLIT	SWS3-9.1
1:50:44	3.57	18	SPLIT	SWS3-9.1
1:50:47	3.59	18	SPLIT	SWS3-9.1
1:50:50	3.62	18	SPLIT	SWS3-9.1
1:50:53	3.64	18	SPLIT	SWS3-9.1
1:50:56	3.66	18	SPLIT	SWS3-9.1
1:50:59	3.68	18	SPLIT	SWS3-9.1
1:51:02	3.70	18	SPLIT	SWS3-9.1
1:51:05	3.72	8	GLI	SWS10
1:51:08	3.75	7	LGR	SWS10
1:51:11	3.77	17	OOV	SWS10
1:51:14	3.79	17	OOV	SWS10
1:51:17	3.81	9	RUN	SWS10
1:51:20	3.83	9	RUN	SWS10
1:51:23	3.85	12	MCP	SWS11
1:51:26	3.87	13	LAP	SWS11
1:51:29	3.90	7	LGR	SWS12 & 1
1:51:32	3.92	9	RUN	SWS 13
1:51:35	3.94	13	LAP	SWS 13
1:51:38	3.96	18	SPLIT	SWS 13.1a
1:51:41	3.98	18	SPLIT	SWS 13.1a
1:51:44	4.00	9	RUN	SWS15
1:51:47	4.03	13	LAP	SWS15
1:51:50	4.05	9	RUN	SWS15
1:51:53	4.07	9	RUN	SWS15
1:51:56	4.09	9	RUN	SWS15
1:51:59	4.11	7	LGR	SWS16
1:52:02	4.13	9	RUN	1
1:52:05	4.15	7	LGR	2
1:52:08	4.18	18	SPLIT	
1:52:11	4.20	18	SPLIT	
1:52:14	4.22	18	SPLIT	
1:52:17	4.24	18	SPLIT	
1:52:20	4.26	13	LAP	3
1:52:23	4.28	13	LAP	3
1:52:26	4.31	13	LAP	3
1:52:29	4.33	12	MOD	Scoured
1:52:32	4.35	7	LGR	4
1:52:35	4.37	7	LGR	4
1:52:38	4.39	7	LGR	4
1:52:41	4.41	9	RUN	7
1:52:44	4.44	9	RUN	7
1:52:47	4.46	7	LGR	8
1:52:50	4.48	13	LAP	
1:52:53	4.50	12	MCP	HWY 49
1:52:56	4.52	13	LAP	
1:52:59	4.54	13	LAP	
1:53:02	4.56	13	LAP	
1:53:05	4.58	13	LAP	
1:53:08	4.60	9	RUN	
1:53:11	4.62	10	STEP	1
1:53:14	4.64	10	STEP	1
1:53:17	4.66	10	STEP	1

Time	RM	Habitat	Habitat	HM Unit
1:53:20	4.68	10	STEP	1
1:53:23	4.70	10	STEP	1
1:53:26	4.73	10	STEP	1
1:53:29	4.75	12	MCP	2
1:53:32	4.77	12	MCP	2
1:53:35	4.79	7	LGR	3
1:53:38	4.81	12	MCP	3
1:53:41	4.83	6	HGR	4
1:53:44	4.85	7	LGR	5
1:53:47	4.87	7	LGR	5
1:53:50	4.89	9	RUN	8
1:53:53	4.91	8	GLI	9
1:53:56	4.93	9	RUN	9
1:53:59	4.95	10	STEP	10
1:54:02	4.97	12	MCP	11
1:54:05	4.99	12	MCP	11
1:54:08	5.01	7	LGR	12
1:54:11	5.03	8	GLI	13
1:54:14	5.05	8	GLI	13
1:54:17	5.07	7	LGR	14
1:54:20	5.09	7	LGR	14
1:54:23	5.11	9	RUN	15
1:54:26	5.13	12	MCP	16
1:54:29	5.15	12	MCP	16
1:54:32	5.18	12	MCP	17
1:54:35	5.20	12	MCP	18
1:54:38	5.22	10	STEP	19
1:54:41	5.24	12	MCP	20
1:54:44	5.26	9	RUN	22
1:54:47	5.28	12	MCP	23
1:54:50	5.30	4	RAP	24
1:54:53	5.32	18	SPLIT	
1:54:56	5.34	18	SPLIT	
1:54:59	5.36	11	POW	26
1:55:02	5.38	11	POW	26
1:55:05	5.40	6	HGR	27
1:55:08	5.43	6	HGR	27
1:55:11	5.45	6	HGR	27
1:55:14	5.48	12	MCP	28
1:55:17	5.51	12	MCP	28
1:55:20	5.53	12	MCP	28
1:55:23	5.56	12	MCP	28
1:55:26	5.59	12	MCP	28
1:55:29	5.61	9	RUN	29
1:55:32	5.64	12	MCP	30
1:55:35	5.67	12	MCP	30
1:55:38	5.69	14	TRP	30
1:55:41	5.72	2	CAS	
1:55:44	5.75	2	CAS	
1:55:47	5.78	9	RUN	
1:55:50	5.80	12	MCP	
1:55:53	5.83	12	MCP	
1:55:56	5.86	4	RAP	
1:55:59	5.88	6	HGR	
1:56:02	5.91	12	MCP	
1:56:05	5.94	6	HGR	
1:56:08	5.96	10	STEP	
1:56:11	5.99	6	HGR	
1:56:14	6.02	9	RUN	
1:56:17	6.04	13	LAP	
1:56:20	6.07	13	LAP	

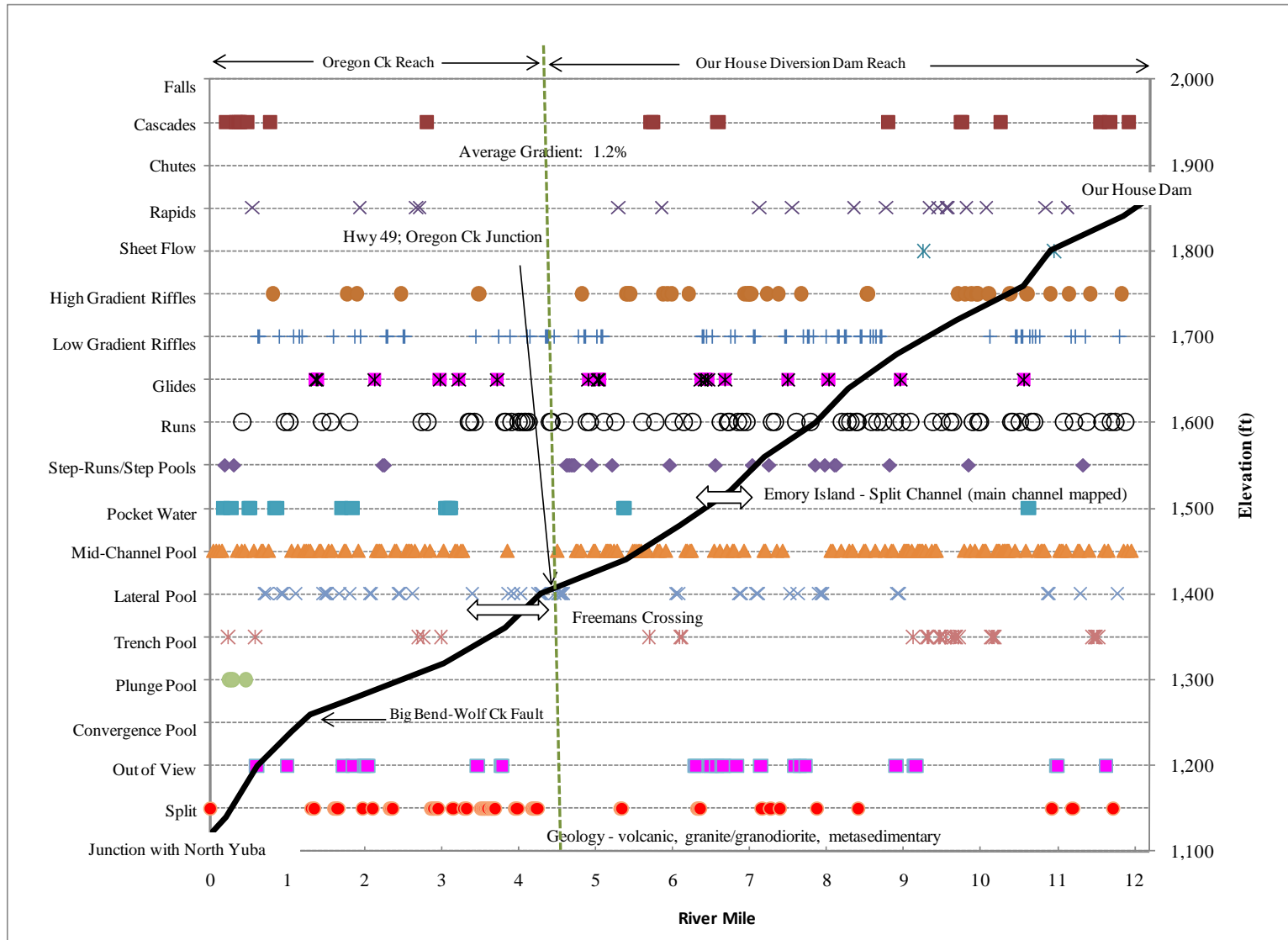


Middle Yuba River – Habitat Mapping – Video based – From North Yuba/Middle Yuba Junction to Our House Dam (cont)

Time	RM	Habitat	Habitat	HM Unit
1:58:35	6.92	12	MCP	SPLIT
1:58:38	6.94	6	HGR	SPLIT
1:58:41	6.96	9	RUN	
1:58:44	6.98	6	HGR	
1:58:47	7.00	6	HGR	
1:58:50	7.02	6	HGR	
1:58:53	7.03	10	STEP	
1:58:56	7.05	7	LGR	
1:58:59	7.07	7	LGR	
1:59:02	7.09	13	LAP	
1:59:05	7.11	13	LAP	
1:59:08	7.13	4	RAP	
1:59:11	7.14	17	OOV	
1:59:14	7.16	18	SPLIT	
1:59:17	7.18	12	MCP	
1:59:20	7.20	12	MCP	
1:59:23	7.23	6	HGR	
1:59:26	7.25	10	STEP	
1:59:29	7.28	18	SPLIT	
1:59:32	7.30	9	RUN	
1:59:35	7.33	9	RUN	
1:59:38	7.35	12	MCP	
1:59:41	7.38	6	HGR	
1:59:44	7.40	18	SPLIT	
1:59:47	7.43	12	MCP	
1:59:50	7.45	7	LGR	
1:59:53	7.48	7	LGR	
1:59:56	7.50	8	GLI	
1:59:59	7.53	13	LAP	
2:00:02	7.55	4	RAP	
2:00:05	7.58	17	OOV	SPLIT
2:00:08	7.60	9	RUN	SPLIT
2:00:11	7.63	13	LAP	SPLIT
2:00:14	7.65	17	OOV	SPLIT
2:00:17	7.68	6	HGR	SPLIT
2:00:20	7.70	7	LGR	SPLIT
2:00:23	7.73	17	OOV	SPLIT
2:00:26	7.75	7	LGR	SPLIT
2:00:29	7.78	7	LGR	SPLIT
2:00:32	7.80	9	RUN	SPLIT
2:00:35	7.83	7	LGR	SPLIT
2:00:38	7.85	10	STEP	SPLIT
2:00:41	7.88	18	SPLIT	
2:00:44	7.90	13	LAP	
2:00:47	7.93	13	LAP	
2:00:50	7.95	13	LAP	
2:00:53	7.98	10	STEP	
2:00:56	8.00	7	LGR	
2:00:59	8.03	8	GLI	
2:01:02	8.05	12	MCP	
2:01:05	8.08	12	MCP	
2:01:08	8.10	10	STEP	
2:01:11	8.12	10	STEP	
2:01:14	8.14	7	LGR	
2:01:17	8.16	7	LGR	
2:01:20	8.18	12	MCP	
2:01:23	8.21	9	RUN	
2:01:26	8.23	7	LGR	
2:01:29	8.25	7	LGR	
2:01:32	8.27	9	RUN	
2:01:35	8.29	12	MCP	
2:01:38	8.31	9	RUN	
2:01:41	8.33	12	MCP	
2:01:44	8.35	4	RAP	
2:01:47	8.37	9	RUN	
2:01:50	8.39	9	RUN	
2:01:53	8.42	18	SPLIT	
2:01:56	8.44	7	LGR	
2:01:59	8.46	7	LGR	
2:02:02	8.48	12	MCP	
2:02:05	8.50	12	MCP	
2:02:08	8.52	6	HGR	
2:02:11	8.54	6	HGR	
2:02:14	8.56	7	LGR	
2:02:17	8.58	9	RUN	
2:02:20	8.61	7	LGR	
2:02:23	8.63	12	MCP	
2:02:26	8.65	7	LGR	
2:02:29	8.67	9	RUN	
2:02:32	8.69	7	LGR	
2:02:35	8.71	7	LGR	
2:02:38	8.73	9	RUN	
2:02:41	8.75	12	MCP	
2:02:44	8.77	4	RAP	
2:02:47	8.79	2	CAS	
2:02:50	8.82	10	STEP	
2:02:53	8.84	12	MCP	
2:02:56	8.86	12	MCP	
2:02:59	8.88	9	RUN	
2:03:02	8.90	17	OOV	
2:03:05	8.92	13	LAP	
2:03:08	8.94	13	LAP	
2:03:11	8.96	8	GLI	
2:03:14	8.98	9	RUN	
2:03:17	9.00	12	MCP	
2:03:20	9.02	12	MCP	
2:03:23	9.04	12	MCP	
2:03:26	9.06	12	MCP	
2:03:29	9.08	9	RUN	
2:03:32	9.10	12	MCP	
2:03:35	9.12	14	TRP	
2:03:38	9.14	17	OOV	
2:03:41	9.16	17	OOV	
2:03:44	9.18	12	MCP	
2:03:47	9.20	12	MCP	

Time	RM	Habitat	Habitat	HM Unit
2:03:50	9.22	12	MCP	
2:03:53	9.24	12	MCP	
2:03:56	9.26	5	SHT	
2:03:59	9.28	12	MCP	
2:04:02	9.30	14	TRP	
2:04:05	9.32	14	TRP	
2:04:08	9.34	4	RAP	
2:04:11	9.36	12	MCP	
2:04:14	9.38	9	RUN	
2:04:17	9.40	12	MCP	
2:04:20	9.42	12	MCP	
2:04:23	9.44	4	RAP	
2:04:26	9.46	14	TRP	
2:04:29	9.48	14	TRP	
2:04:32	9.50	9	RUN	
2:04:35	9.52	14	TRP	
2:04:38	9.54	14	TRP	
2:04:41	9.56	4	RAP	
2:04:44	9.58	4	RAP	
2:04:47	9.60	9	RUN	
2:04:50	9.62	14	TRP	
2:04:53	9.64	9	RUN	
2:04:56	9.66	14	TRP	
2:04:59	9.68	14	TRP	
2:05:02	9.70	6	HGR	
2:05:05	9.72	14	TRP	
2:05:08	9.74	2	CAS	
2:05:11	9.76	2	CAS	
2:05:14	9.78	12	MCP	
2:05:17	9.80	6	HGR	
2:05:20	9.82	4	RAP	
2:05:23	9.84	10	STEP	
2:05:26	9.86	12	MCP	
2:05:29	9.88	6	HGR	
2:05:32	9.90	9	RUN	
2:05:35	9.92	12	MCP	
2:05:38	9.94	6	HGR	
2:05:41	9.96	6	HGR	
2:05:44	9.98	9	RUN	
2:05:47	10.00	9	RUN	
2:05:50	10.02	12	MCP	
2:05:53	10.04	12	MCP	
2:05:56	10.06	12	MCP	
2:05:59	10.08	4	RAP	
2:06:02	10.10	6	HGR	
2:06:05	10.12	7	LGR	
2:06:08	10.14	14	TRP	
2:06:11	10.16	14	TRP	
2:06:14	10.18	14	TRP	
2:06:17	10.20	12	MCP	
2:06:20	10.22	12	MCP	
2:06:23	10.24	12	MCP	
2:06:26	10.26	2	CAS	
2:06:29	10.28	12	MCP	
2:06:32	10.30	12	MCP	
2:06:35	10.32	12	MCP	
2:06:38	10.34	12	MCP	
2:06:41	10.36	12	MCP	
2:06:44	10.38	6	HGR	
2:06:47	10.40	9	RUN	
2:06:50	10.42	9	RUN	
2:06:53	10.44	12	MCP	
2:06:56	10.46	7	LGR	
2:06:59	10.48	7	LGR	
2:07:02	10.50	9	RUN	
2:07:05	10.52	7	LGR	
2:07:08	10.54	7	LGR	
2:07:11	10.56	8	GLI	
2:07:14	10.58	12	MCP	
2:07:17	10.60	6	HGR	
2:07:20	10.62	11	POW	
2:07:23	10.64	7	LGR	
2:07:26	10.66	9	RUN	
2:07:29	10.68	7	LGR	
2:07:32	10.70	9	RUN	
2:07:35	10.72	7	LGR	
2:07:38	10.74	12	MCP	
2:07:41	10.76	7	LGR	
2:07:44	10.78	12	MCP	
2:07:47	10.80	12	MCP	POOL
2:07:50	10.82	12	MCP	
2:07:53	10.84	4	RAP	
2:07:56	10.87	13	LAP	
2:07:59	10.89	13	LAP	
2:08:02	10.91	6	HGR	SWS41
2:08:05	10.93	18	SPLIT	SWS40
2:08:08	10.95	5	SHT	SWS40
2:08:11	10.97	17	OOV	SWS39
2:08:14	11.00	17	OOV	SWS38
2:08:17	11.02	12	MCP	SWS36
2:08:20	11.04	12	MCP	SWS36
2:08:23	11.06	12	MCP	SWS36
2:08:26	11.08	9	RUN	SWS35
2:08:29	11.10	12	MCP	SWS33
2:08:32	11.13	4	RAP	
2:08:35	11.15	6	HGR	SWS32
2:08:38	11.17	7	LGR	SWS30
2:08:41	11.19	18	SPLIT	SWS29
2:08:44	11.21	9	RUN	SWS28
2:08:47	11.23	7	LGR	SWS27
2:08:50	11.26	12	MCP	SWS26
2:08:53	11.28	12	MCP	SWS26
2:08:56	11.30	13	LAP	SWS26
2:08:59	11.33	10	STEP	SWS59
2:09:02	11.35	7	LGR	SWS25

Time	RM	Habitat	Habitat	HM Unit	Distance
2:09:05	11.38	9	RUN	SWS24	
2:09:08	11.40	12	MCP	SWS24	
2:09:11	11.43	6	HGR	SWS22	
2:09:14	11.45	14	TRP	SWS21	
2:09:17	11.48	14	TRP	SWS21	
2:09:20	11.50	14	TRP	SWS20	
2:09:23	11.53	14	TRP	SWS19	
2:09:26	11.55	2	CAS	SWS18	
2:09:29	11.58	9	RUN	SWS17	
2:09:32	11.60	12	MCP	1/SWS16	
2:09:35	11.63	17	OOV	SWS16	
2:09:38	11.65	12	MCP	1/SWS16	
2:09:41	11.68	2	CAS	2/SWS15	
2:09:44	11.70	9	RUN	3/SWS14	
2:09:47	11.73	18	SPLIT	SWS13 (lgr/hgr/bw)	
2:09:50	11.75	9	RUN	5/SWS11	
2:09:53	11.78	13	LAP	6/SWS11	
2:09:56	11.80	7	LGR	7/SWS10	
2:09:59	11.83	6	HGR	8/SWS10	
2:10:02	11.85	12	MCP	9/SWS9	
2:10:05	11.88	9	RUN	12/SWS7	
2:10:08	11.90	12	MCP	13/SWS5	
2:10:11	11.93	2	CAS	14/SWS4	
2:10:14	11.95	12	MCP	16/SWS2	
2:10:17	11.98			POOL BELOW OUR I	
2:10:20	12.00			OUR House DAM	



Middle Yuba River – Habitat Mapping Units using video-mapped data.