## Susitna-Watana Hydroelectric Project Document ARLIS Uniform Cover Page

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#### PART A - APPENDIX B: DISTRIBUTION OF FISH RADIO-TAGGED IN THE MIDDLE AND LOWER SUSITNA RIVER, 2013

# Susitna-Watana Hydroelectric Project (FERC No. 14241)

## Study of Fish Distribution and Abundance in the Middle and Lower Susitna River Study (9.6)

Part A - Appendix B
Distribution of Fish Radio-Tagged in the Middle and
Lower Susitna River, 2013

#### **Initial Study Report**

Prepared for

Alaska Energy Authority



Prepared by

LGL Alaska Research Associates, Inc.]

June 2014

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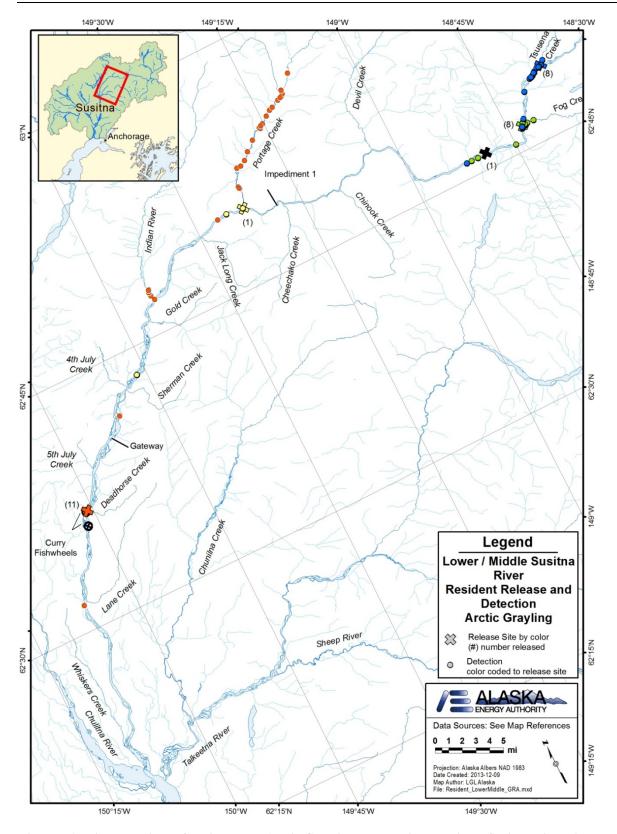


Figure B1. Live detections of radio-tagged Arctic Grayling released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B1).

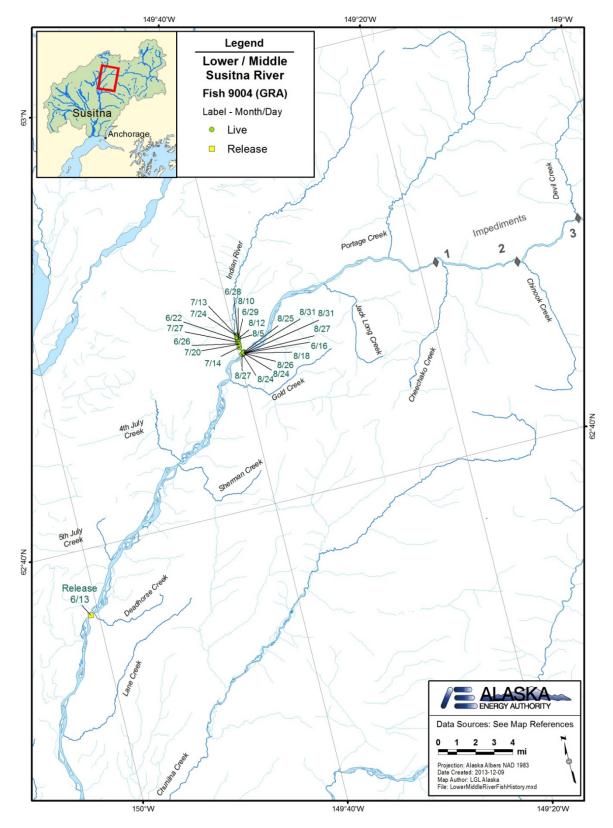


Figure B2. Live detections of radio-tagged Arctic Grayling #9004 released in the Middle Susitna River on 13 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

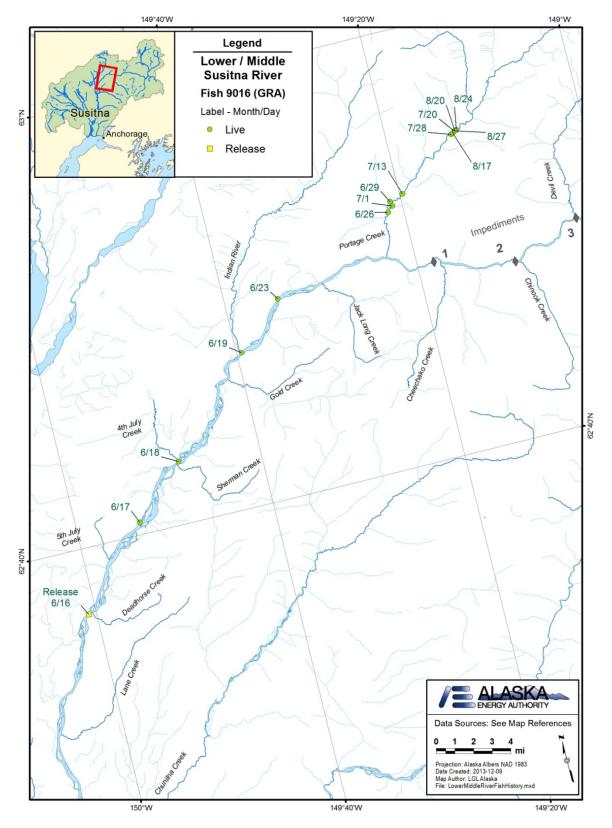


Figure B3. Live detections of radio-tagged Arctic Grayling #9016 released in the Middle Susitna River on 16 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

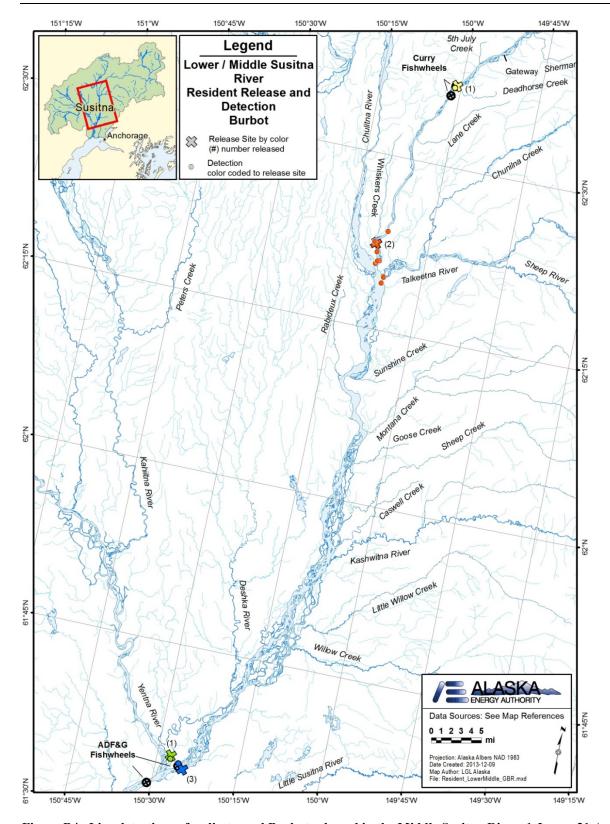


Figure B4. Live detections of radio-tagged Burbot released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B2).

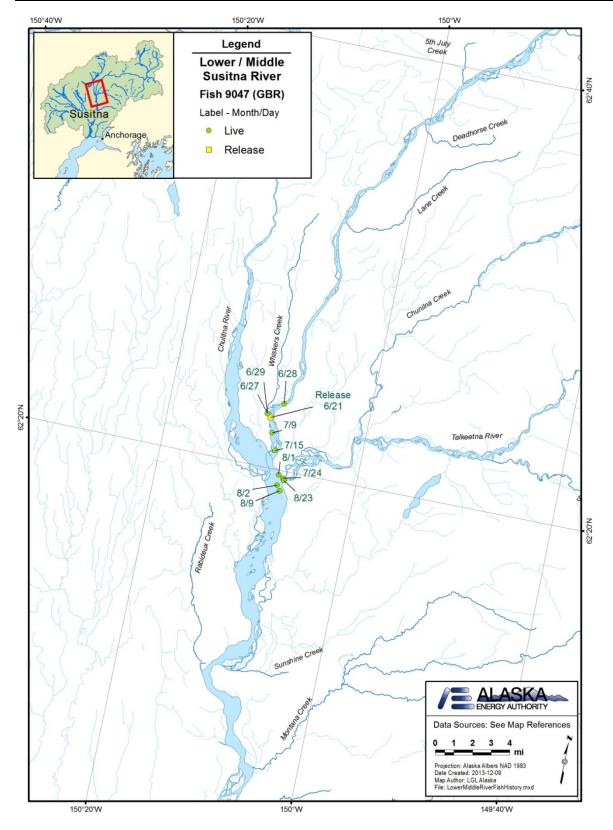


Figure B5. Live detections of radio-tagged Burbot #9047 released in the Middle Susitna River on 21 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

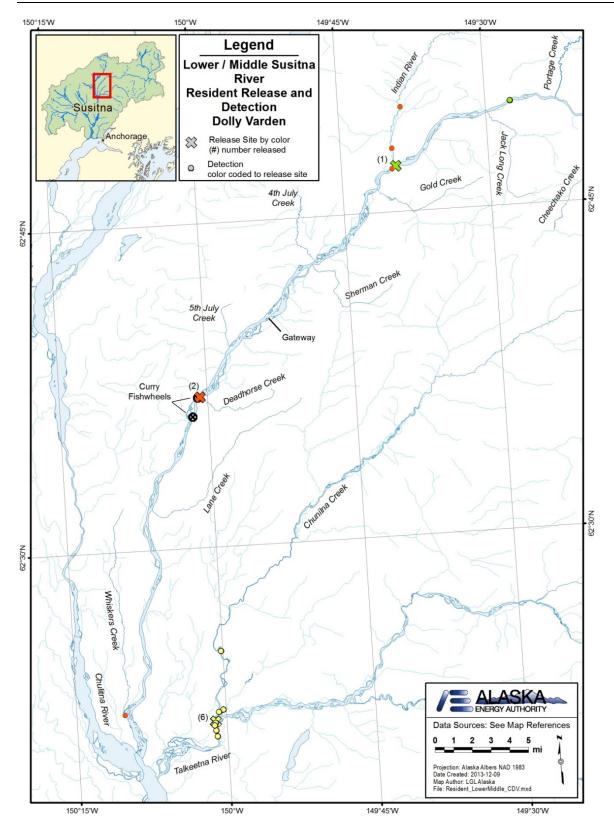


Figure B6. Live detections of radio-tagged Dolly Varden released in the Middle Susitna River, 1 June -31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B3).

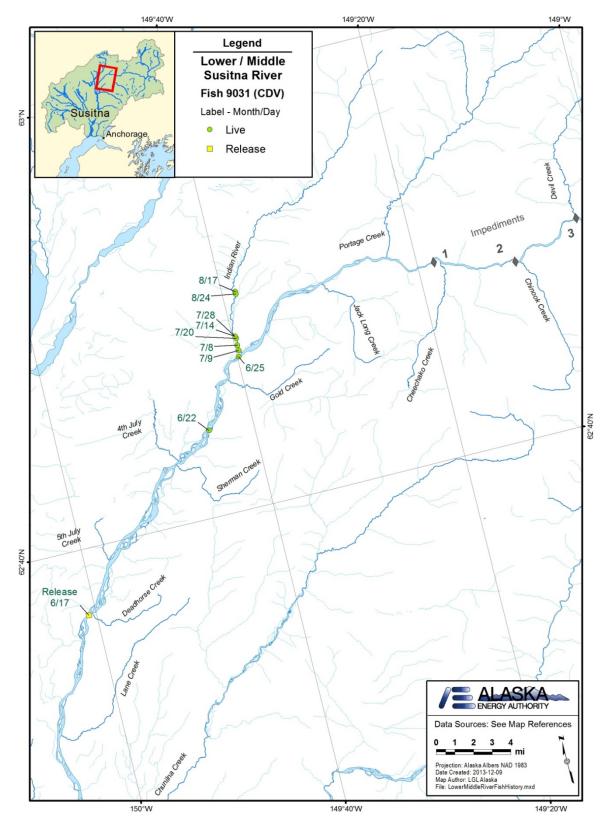


Figure B7. Live detections of radio-tagged Dolly Varden #9031 released in the Middle Susitna River on 17 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

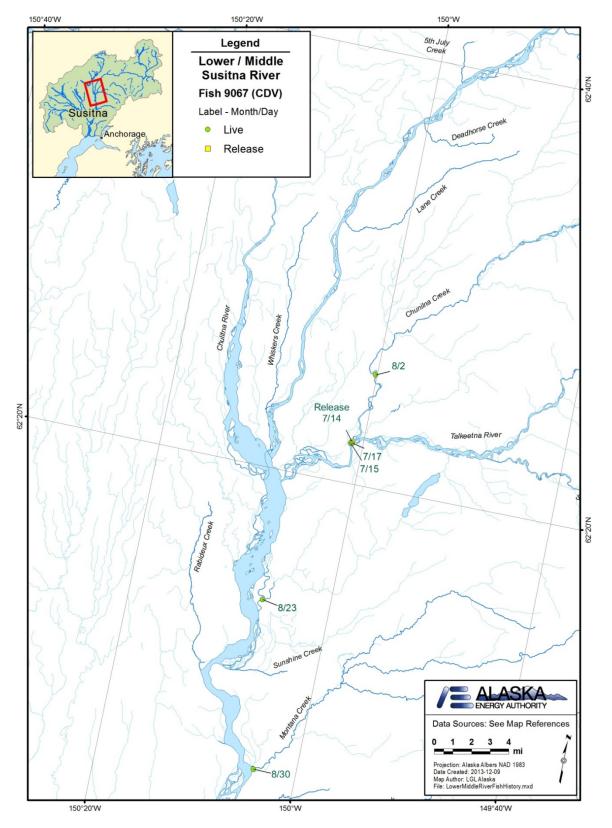


Figure B8. Live detections of radio-tagged Dolly Varden #9067 released in the Talkeetna River on 14 July, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

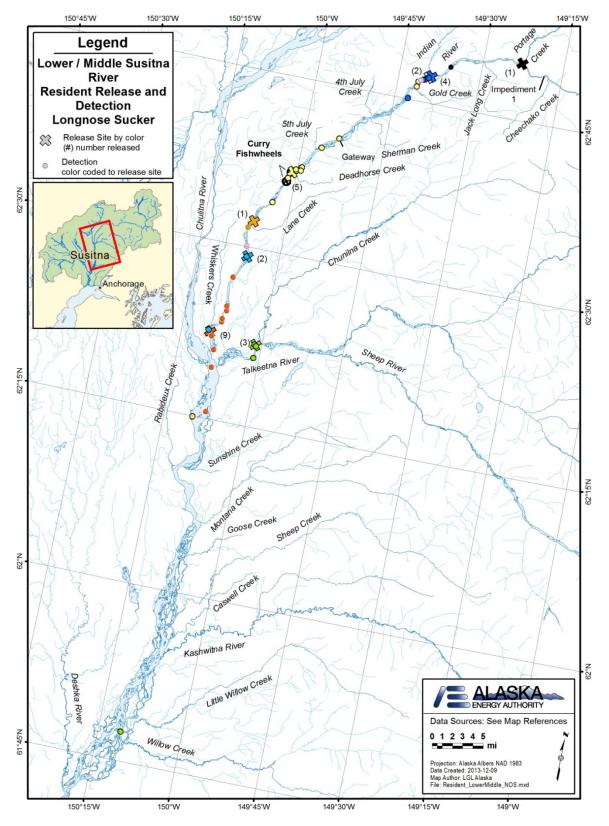


Figure B9. Live detections of radio-tagged Longnose Sucker released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B4).

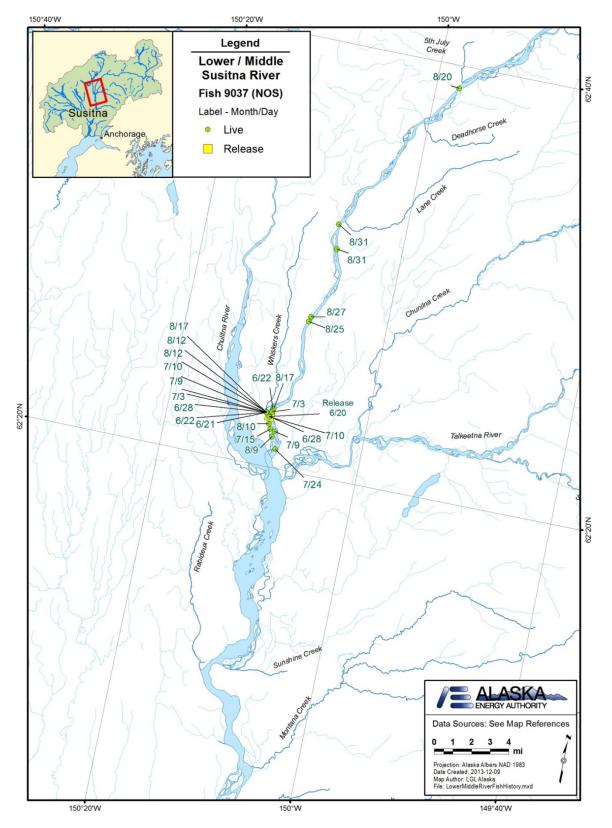


Figure B10. Live detections of radio-tagged Longnose Sucker #9037 released in the Middle Susitna River on 20 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

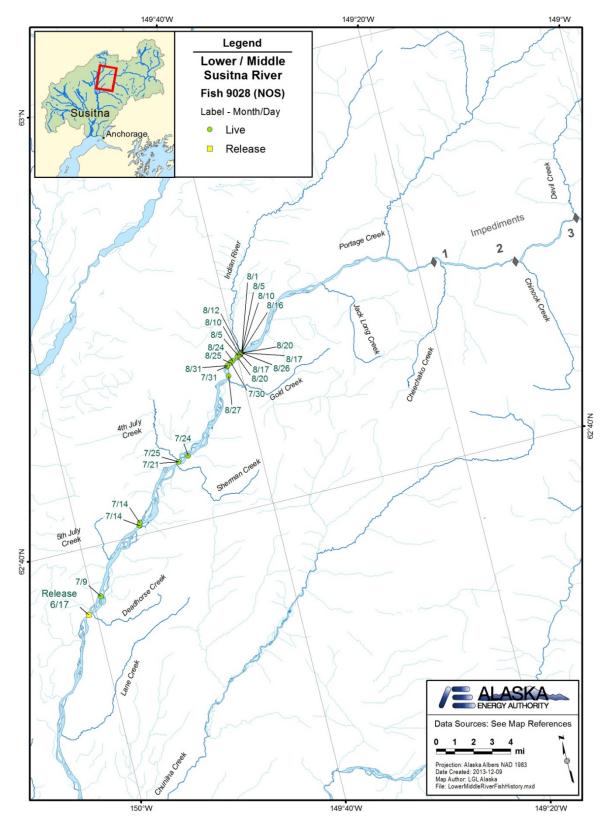


Figure B11. Live detections of radio-tagged Longnose Sucker #9028 released in the Middle Susitna River on 17 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

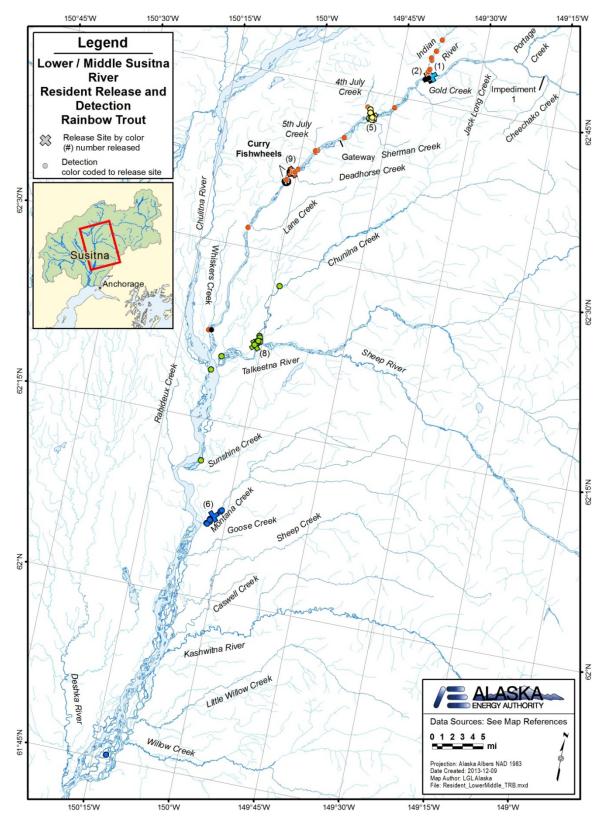


Figure B12. Live detections of radio-tagged Rainbow Trout released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B6).

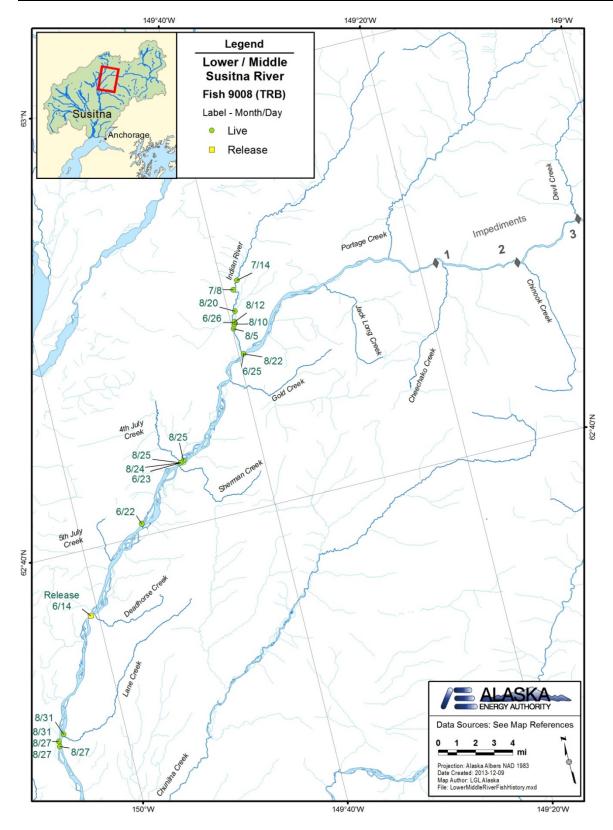


Figure B13. Live detections of radio-tagged Rainbow Trout #9008 released in the Middle Susitna River on 14 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

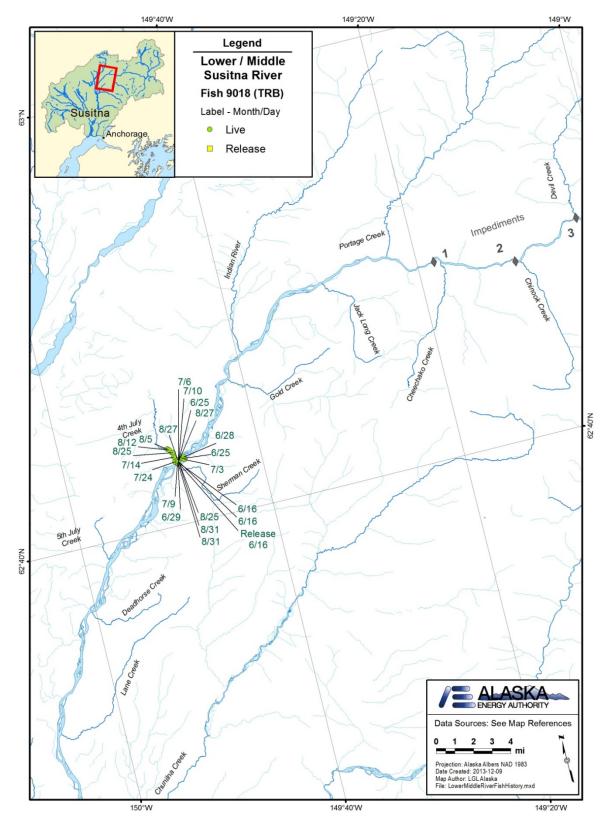


Figure B14. Live detections of radio-tagged Rainbow Trout #9018 released in the Middle Susitna River on 16 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

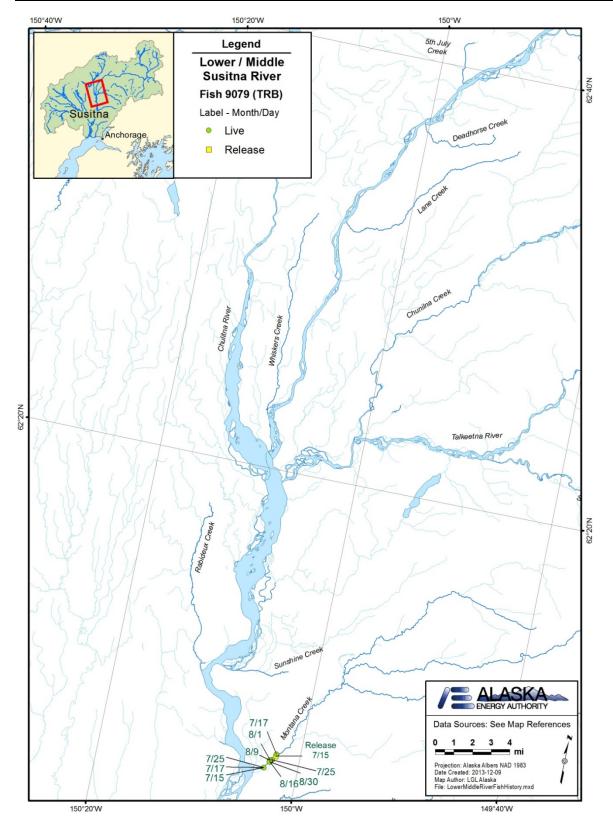


Figure B15. Live detections of radio-tagged Rainbow Trout #9079 released in the Montana Creek on 7 July, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

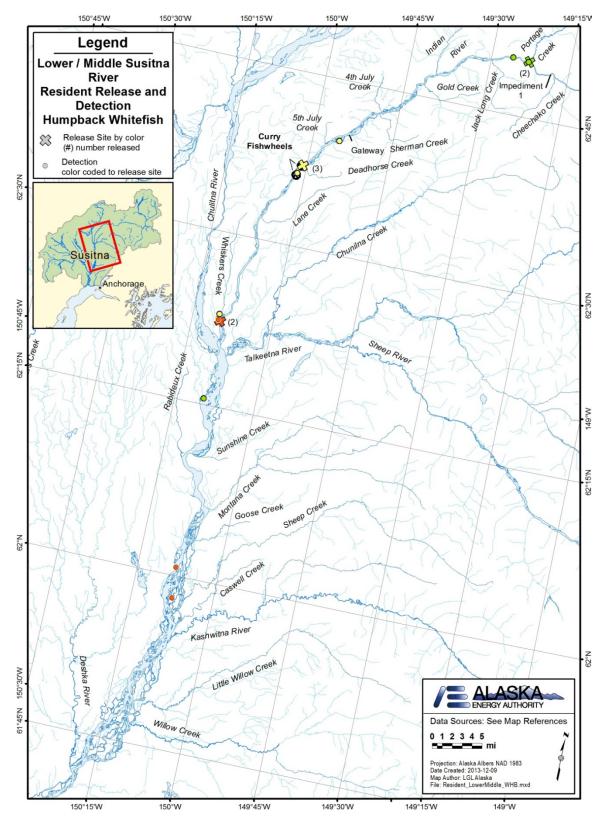


Figure B16. Live detections of radio-tagged Humpback Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B7).

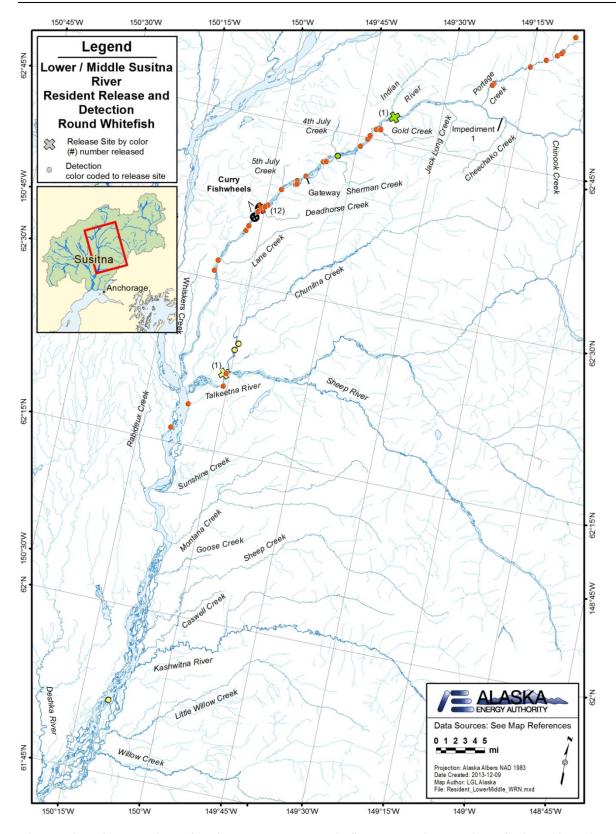


Figure B17. Live detections of radio-tagged Round Whitefish released in the Middle Susitna River, 1 June – 31 August, 2013. Color-coded X's indicate release sites and respectively colored individual dots indicate last-known locations of each unique fish for each two week analysis period (see Table B8).

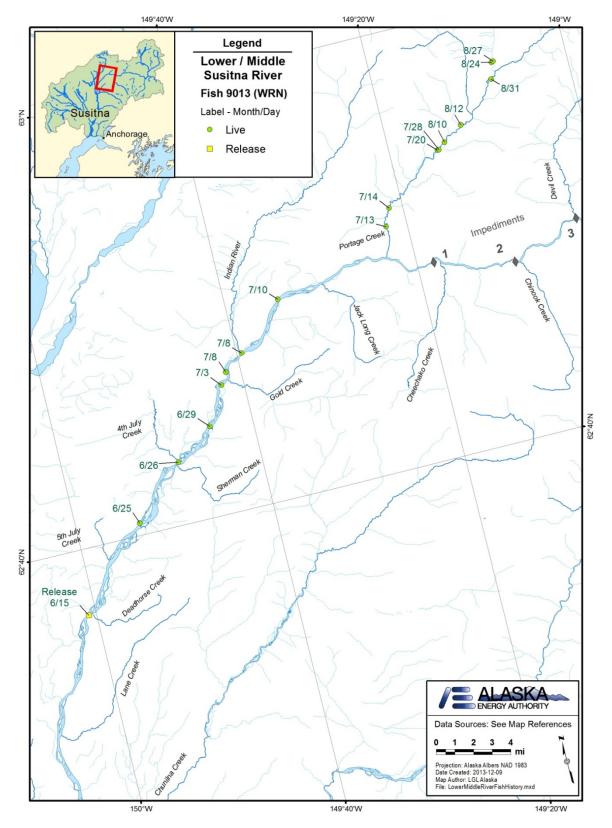


Figure B18. Live detections of radio-tagged Round Whitefish #9013 released in the Middle Susitna River on 15 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

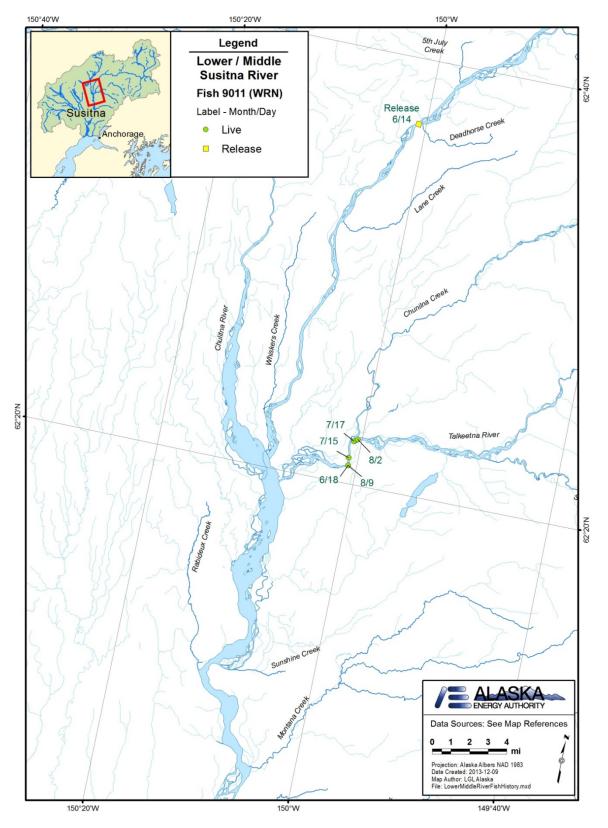


Figure B19. Live detections of radio-tagged Round Whitefish #9011 released in the Middle Susitna River on 14 June, 2013. The yellow square indicates the release site and the individual dots indicate the location on each date of detection.

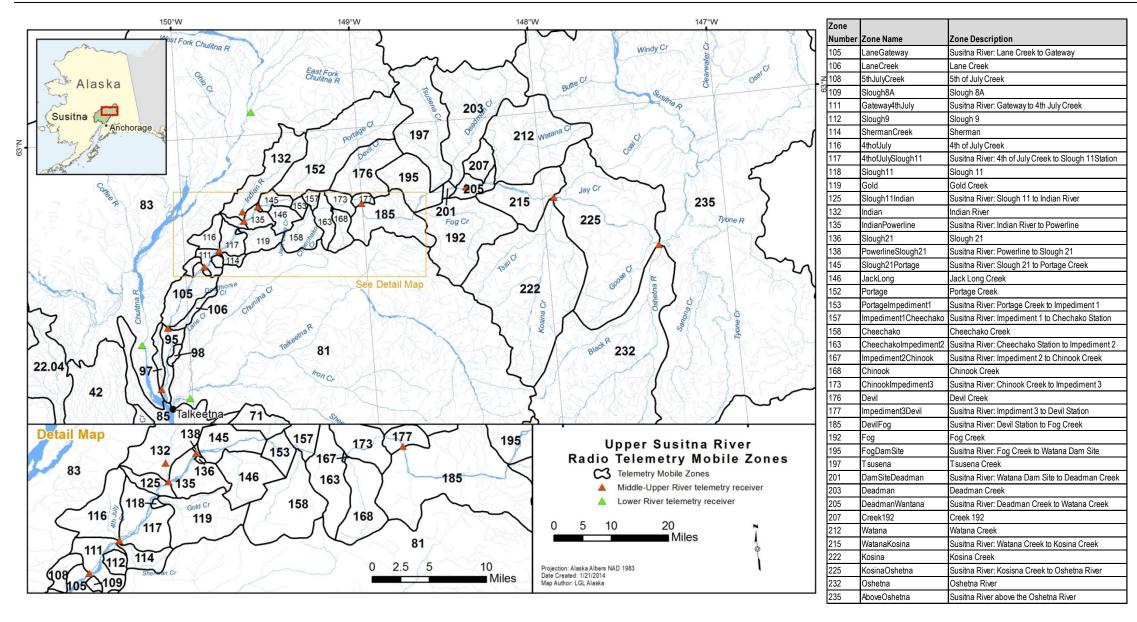


Figure B20. Radio telemetry survey zones in the Middle and Upper Susitna River, 2013.

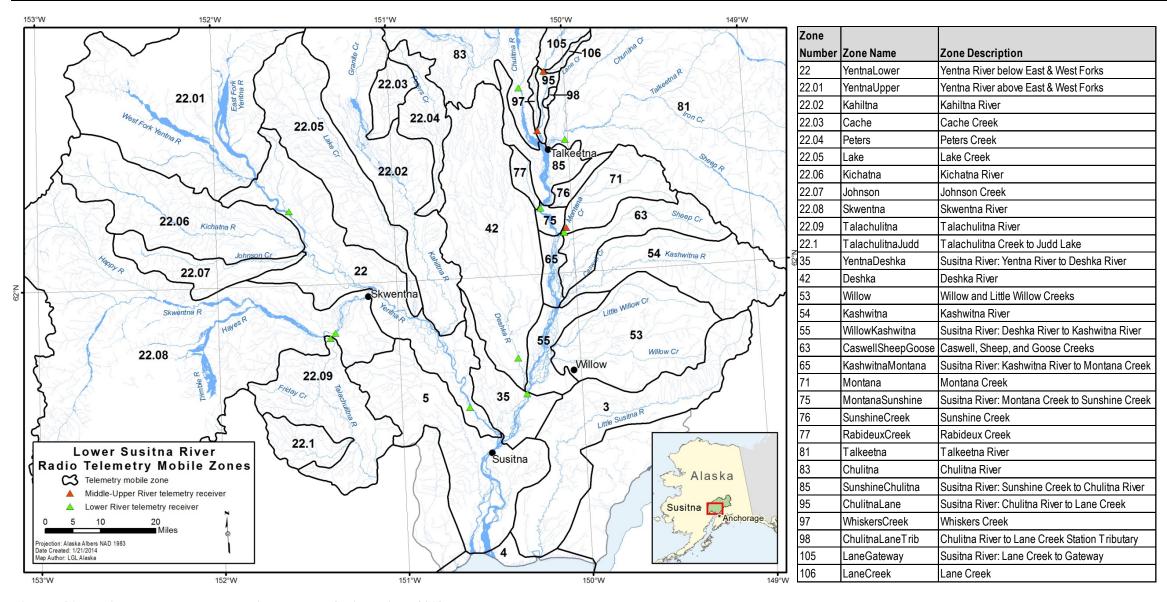


Figure B21. Radio telemetry survey zones in the Lower Susitna River, 2013.

Table B1. Arctic grayling two-week post tagging location status by tagging group.

Arctic grayling		RIs	befo	re 7/	1		_	F	RIs	7/15	- 7/3		I	RIs	7/15	- 7/3°	1	RI	s 7/15		1	Ris	8/15	- 8/30
	Zone		l <u>-</u>	I₃	бr	gn/	30 Aug			6r	15 Aug	30 Aug			Aug	15 Aug	30 Aug		l gr	15 Aug	∫ng			Aug
Zone Name	Number	器	1 Jul	15 Jul	1 Aug	15 Aug	30 4	П	RIS	1 Aug	15 /	30 4		RIS	1 Aı	15 /	30 4	RIS	1 Aug	15 /	30 Aug	RIS		30 4
						osed	Wata	na L	Dam	ı Site	PRM	187.1												
MOB - Tsusena Creek	197												П					8	3	1				
MOB - Fog - Dam Site	195																2		5	5	4			
MOB - Fog Creek	192														3	5	1							
MOB - Devil Stn - Fog	185												8	3	5	3	5			1	1	1		1
					Uppe	r Exte	ent De	vils	Ca	nyon	PRM	166.	1											
Devils Island	180							L					Ш											
MOB - Impediment3 - Devil Stn	177							L																
MOB - Devils Creek	176												Ш											
MOB - Chinook - Impediment3	173							L					Ш											
MOB - Chinook Creek	168							Ц					Ш											
MOB - Impediment2 - Chinook	167							L					Ш											
MOB - Cheechako - Impediment2	163							Ц					Ш											
MOB - Cheechako Creek	158							L					₽					_						
MOB - Impediment1 - Cheechako	157							Щ					Ц					$oldsymbol{\perp}$	<u> </u>	<u> </u>		$\coprod$		
	r			ı	Lowe	r Exte	ent De	vils	Ca	nyon	PRM	153.	9											
MOB - Portage - Impediment1	153		_		_		_	IL					ļļ					_		<u> </u>				
MOB - Portage trib	152		7	6	6	5	3	H	_				H					1	-	1				
MOB - Jack Long Creek	146	_		<u> </u>			<u> </u>	H	_	ļ.	<u> </u>		╟					H	-	1				
MOB - abv Powerline - Portage	145			1				1	1	1	1		₽					_	-	-		_		
MOB - above Powerline	138							H					₽					_	-	_		_		
Powerline	137							H	_				₽					_	-			_		
MOB - Slough 21	136							H	_				₽					_	-			-		
MOB - Indian - Slough 21	135			_		_		H					H					_				-		
MOB - Indian trib	132		1	1	1	1		H					₽					_	-	ļ		_		
Indian River trib	131		_	_				H	_				₽					_	-			_		
Indian River	130		2	1			1	H					₽					-		-		-		
MOB - Slough11 - Indian	125							H	_				₽					_	-			_		
MOB - Gold Creek	119							H					₩					_				_		
MOB - Slough 11	118							H				_	₩					_				_		
MOB - 4th of July - Slough 11	117							H	_			1	₽					_	-			_		
MOB - 4th of July Creek	116							H					H					-	-	1		-		
Fourth of July	115 114							H	_				₽	_				_	-			-		
MOB - Sherman Creek MOB - Slough 9	112						1	H					H					-	-	-		-		
_	111						-	H					łŀ					-	-	1		-		
MOB - Gateway - 4th of July								H					╂					_	-			-		
Gateway	110							H					₽					-	-			-		
MOB - Slough 8A	109 108							H	_				₽					_	-			-		
MOB - 5th of July Creek								H	_				₽					_	-	-		-		
MOB - Lane Creek	106	44						H	_				₽					_	-	-		-		
MOB - Lane - Gateway	105	11		_				H					₩					-	-			-		
Lane Creek	100		1	1	1			H					₽					-				-		
MOB - Trib off zone 95	98	_	_		_	_	$\vdash$	H	_	<u> </u>	_		╟					$\vdash$	-	$\vdash$	$\vdash$			
MOB - Whiskers Creek	97							H	_				╟	_				-	-	1		_		
Whiskers	96						<del>                                     </del>	╟	_				╟	_				$\vdash$		1		1		
MOB - Talkeetna - Lane	95					<u> </u>	Ļ	Ш					Ц							1		Ш		
MOD Constinue T. II. 1	loc.	1		I		I	LO	wer	Kİ	ver		I	П	_				1	1	Т		П		
MOB - Sunshine - Talkeetna	85	$\vdash$	_		_	_	<b>├</b>	H		<u> </u>	_		╟					$\vdash$	-		$\vdash$	1		
ADFG - Middle Chulitna	84	$\vdash$	_		_	-	$\vdash$	╟	_		_		╟	_				+	-	1		$\vdash$		
MOB - Chulitna River	83	$\vdash$	_	_	_	_	$\vdash$	H			_	_	╟					+	+	1		$\vdash$		
ADFG Chulitna	82	$\vdash$				_		H	_				╟					$\vdash$	$\vdash$	1				
MOB - Talkeetna River	81 en	$\vdash$						╟	_				╟					$\vdash$	-	┢		-		
ADFG Talkeetna	80	44	44	40		c	E	Η,		4	4	4	Н,	,	0	0	0	0	0	7	E	4		4
Total Tags Live		11	_	10	_	6	5	1			1	1	1	_	_		8	8	8	1	5	1		1
Mort tags *  * current location of mort tags not sho		U	0	1	3	5	6	0	j	0	0	0		J	0	0	0	0	0	1	3	0		0

<sup>\*</sup> current location of mort tags not shown in table

Table B2. Burbot two-week post tagging location status by tagging group.

Burbot		RIs	befo	re 7/1				F	RIs 8	3/1 - 8	3/14	RIs 8/15	5 - 8/30	RIs	8/15	- 8/30
	Zone			7	g	gn	gn.	I		ng	gn		gn			gn
Zone Name	Number	RIs	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug		RIs	15 Aug	30 Aug	Ris	30 Aug	RIs		30 Aug
			Devil	s Can	yon F	PRM 1	53.9-1	66.	1							
MOB - Lane - Gateway	105							1	1	1						
Lane Creek	100															
MOB - Trib off zone 95	98															
MOB - Whiskers Creek	97															
MOB - Talkeetna - Lane	96	2	1	1	1		1	Ī								
Whiskers	95		1	1				ľ								
				L	ower	River			-				•	•		
MOB - Sunshine - Talkeetna	85				1	2										
ADFG - Middle Chulitna	84							ľ								
MOB - Chulitna River	83							ľ								
ADFG Chulitna	82							ľ								
MOB - Talkeetna River	81						1									
ADFG Talkeetna	80							ľ								
ADFG Sunshine	78							Ī								
MOB - Rabideux Creek	77							ľ								
MOB - Sunshine Creek	76							l								
MOB - Montana - Sunshine	75							ľ								
MOB - Montana Creek	71							I								
MOB - Kashwitna - Montana	70							ľ								
Montana	65							Ī								
MOB - Caswell area tribs	63							Ī								
MOB - Deshka - Kashwitna	55															
MOB - Kashwitna River	54							ſ								
MOB - Willow and Little Willow cr	53															
MOB - Deshka River	42							Ī								
ADFG Deshka Weir	41							ľ								
ADFG Deshka River	40							Ī								
MOB - Yentna - Deshka	35							Ī						3		3
ADFG Talachulitna Weir	28							ľ								
ADFG Skwentna	27							ľ								
ADFG Upper Yentna	26							t								
ADFG Lake Weir	24							t								
MOB - Yentna River	22							ľ								
ADFG Lower Yentna	20							ľ	一							
ADFG Susitna Station	6							t								
MOB - Confluence - Yentna	5							t				1	1			
Total Tags Live		2	2	2	2	2	2	1	1	1	0	1	1	3		3
Mort tags *		0	0	0	0	0	0		_		1	0	0	0		0
* current location of mort tage not sho								-								

<sup>\*</sup> current location of mort tags not shown in table

Table B3. Dolly Varden two-week post tagging location status by tagging group.

Dolly Varden		RIs	befo	re 7/1					RIs	7/1 - 7	7/14			F	RIs	8/1 - 8	8/14		RIs 8/15	- 8/30
	Zone			=	5	Вn	вn			=	g	бn	бn	ľ		вn	бn			бn
Zone Name	Number	RIs	1 Jul	ls Jul	1 Aug	15 Aug	30 Aug		RIs	15 Jul	1 Aug	15 Aug	30 Aug		RIs	15 Aug	30 Aug		RIs	30 Aug
		_		Devil:	•		PRM 1	53.			<b>(</b>	_	(-)			-	(-)		ш	(1)
MOB - abv Powerline - Portage	145					ĺ		П						T				П		1
MOB - above Powerline	138													t						
Powerline	137													r						
MOB - Slough 21	136													t						
MOB - Indian - Slough 21	135							ŀ												
MOB - Indian trib	132						1	l						t						
Indian River trib	131			1	1	1		l						t						
Indian River	130							ŀ						r						
MOB - Slough11 - Indian	125		1											t					1	
MOB - Gold Creek	119													r						
MOB - Slough 11	118													r						
MOB - 4th of July - Slough 11	117													r						
MOB - 4th of July Creek	116													r						
Fourth of July	115							İ						r						
MOB - Sherman Creek	114							İ						F						
MOB - Slough 9	112													r						
MOB - Gateway - 4th of July	111													r						
Gateway	110													ľ						
MOB - Slough 8A	109													l						
MOB - 5th of July Creek	108													ľ						
MOB - Lane Creek	106																			
MOB - Lane - Gateway	105	1												1						
Lane Creek	100																			
MOB - Trib off zone 95	98													ľ						
MOB - Whiskers Creek	97							l						Ī						
Whiskers	96													Ī		1	1			
MOB - Talkeetna - Lane	95							ĺ												
					L	ower	River													
MOB - Sunshine - Talkeetna	85												1	T						
ADFG - Middle Chulitna	84													T						
MOB - Chulitna River	83							lļ						T						
ADFG Chulitna	82													T						
MOB - Talkeetna River	81							lĺ	6	6	6	6	5	T						
ADFG Talkeetna	80																			
Total Tags Live		1	1	1	1	1	1		6	6	6	6	6	1		1	1		1	1
Mort tags *		0	0	0	0	0	0	П	0	0	0	0	0	(	)	0	0		0	0
*														_				_		

<sup>\*</sup> current location of mort tags not shown in table

Table B4. Longnose sucker two-week post tagging location status by tagging group.

Longnose Sucker		Rls	befor	e 7/1			Ris	befor	e 7/1		_		RIs	7/1 -	7/14		-	RI	s 7/15	- 7/31		Ris	7/15 -	- 7/31		RIs	7/15 -	7/31		RIs 8/1	15 - 8/30	RIs 8/1	5 - 8/30	RIs 8/	15 - 8/30	RIs 8/	15 - 8/30
	Zone		_	3 5	gn	30 Aug		_	=	g	15 Aug	ug		П	ıg	ug	30 Aug		g	15 Aug	'n		ıg	5 Aug	0 Aug		g	5 Aug	0 Aug		30 Aug		n g		30 Aug		30 Aug
Zone Name	Number	SE SE	lu l	15 Jul	15 A	30 A	SE SE	la L	lo Jul	l Aug	15 A	30 A	SE SE	15 Jul	l Aug	15 A	30 A	RIS	1 Aug	15 A	30 A	RIS	Α	15 A	30 A	SE SE	l Aug	15 A	30 A	SE SE	30 A	SE SE	30 Aug	SE SE	30 A	SIS	30 A
		_				.,						.,		•	Devi					9-166					.,				.,	-							1,7
MOB - abv Powerline - Portage	145				T		П										Ĺ			T						1								I		T	Т
MOB - above Powerline	138				1	m							Т					Т	1	1		$\vdash$															$\top$
Powerline	137				1	Ħ									t			Т		1		T															$\top$
MOB - Slough 21	136				1	Ħ									t			Т		1		T															
MOB - Indian - Slough 21	135				+	t						7			t			т		1		3					1				1 1				1 1	1	1
MOB - Indian trib	132				+	1				T	7	_	T	t	t			Т	1	1		Ė	t		H	$\vdash$		Ħ									_
Indian River trib	131				1	H						7			t			т		1																ı	1
Indian River	130				1	H						7			t			т		1			1	1	2											ı	1
MOB - Slough11 - Indian	125			1	1	1						7			t			т		1		1	2								1 1			2	1	ı	1
MOB - Gold Creek	119				1	T		m			<b>-</b>		T		T			Т		1			t														
MOB - Slough 11	118														T			Т																		ı	
MOB - 4th of July - Slough 11	117										T				1					1			l	1												Ī	
MOB - 4th of July Creek	116				1	П		П			寸	寸	Г		T		Π	IT	T	T	П	Г		П	П												
Fourth of July	115				T	П		П		コ	寸	ヿ	Г		T		Ī	Т	T	T	П	П		П	П												
MOB - Sherman Creek	114										7				Ī			Т																		ıT	
MOB - Slough 9	112														T			Т																		ı	
MOB - Gateway - 4th of July	111														T					1		П															
Gateway	110			1														Г																		ı	
MOB - Slough 8A	109																																				
MOB - 5th of July Creek	108																																				
MOB - Lane Creek	106																																				
MOB - Lane - Gateway	105	5	4	2 2	2	1		1																								1				ıL	
Lane Creek	100		1																														1			ıL	
MOB - Trib off zone 95	98																																			1	
MOB - Whiskers Creek	97																																			ıL	
Whiskers	96							2	3		1								1	1	1										1					ш.	
MOB - Talkeetna - Lane	95						8	3	2	2	,	1						1												2	1				1		
																	Lowe	r Riv	er																		
MOB - Sunshine - Talkeetna	85					1		1		1																										ıL	
ADFG - Middle Chulitna	84																	L				L														ь Ц	
MOB - Chulitna River	83												L					L				L														Щ	
ADFG Chulitna	82					Ш		Ш				_]			匚			L			Ш		$oxed{oxed}$				Ш									Ш	
MOB - Talkeetna River	81			ot	_	Ш		Ш	Ш			_	3	3	2	1	1	L	_	L	Ш	L	<u> </u>	Ш	Ш	1					Ш					ь	1
ADFG Talkeetna	80				_	Ш		Ш			]	_[	L	_	1		<u> </u>	L	_	1	Щ	$\perp$	<u> </u>	Ш	Ш	_										Щ.	
ADFG Sunshine	78		Ш		_	Ш		Ш				_	L	L	_	_	L	L	┸	L	Ш	L	<u> </u>	Ш	Ш	┖	Ш									ь	
MOB - Rabideux Creek	77												L					L				L				$oxed{L}$										L	
MOB - Sunshine Creek	76							Ш							<u> </u>			L		1	Ш		$oxed{oxed}$		Ш											L	
MOB - Montana - Sunshine	75		Ш		$\perp$	Ш		Ш							<u> </u>			L			Ш		<u> </u>	Ш	Ш								Ш			ıL	
MOB - Montana Creek	71												L					L				L														Щ	
Montana	70												L					L				L				┖										L	
MOB - Kashwitna - Montana	65																	L				L														L	
MOB - Caswell area tribs	63												L					L				L														ь	
MOB - Deshka - Kashwitna	55					$\Box$	L			$\Box$		╝	L	L	1			L	L			L		oxdot	Ш	L										L	
Total Tags Live		5	5	3 3	3	3	8	7	5	3	1	1	3	3	3	1	1	1	1	1	1	3	3	2	2	1	1	0	0	2	2	1	1	2	2	1	1
Mort tags *		0	0	2 2	2	2	0	1	3	5	7	7	0	0	0	2	2	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0

<sup>\*</sup> current location of mort tags not shown in table

Table B5. Northern pike two-week post tagging location status by tagging group.

Northern Pike		RIs 8/1	5 - 8/30
Zone Name	Zone Number	RIs	30 Aug
Lower River			
MOB - Montana - Sunshine	75		
MOB - Montana Creek	71		
Montana	70		
MOB - Kashwitna - Montana	65		
MOB - Caswell area tribs	63		
MOB - Deshka - Kashwitna	55		
MOB - Kashwitna River	54		
MOB - Willow and Little Willow cr	53		
MOB - Deshka River	42		
ADFG Deshka Weir	41		
ADFG Deshka River	40		
MOB - Yentna - Deshka	35	5	4
MOB - Confluence - Yentna	5		
Total Tags Live		5	4
Mort tags *		0	1

<sup>\*</sup> current location of mort tags not shown in table

Table B6. Rainbow trout two-week post tagging location status by tagging group.

Rainbow Trout		RIs	befo	re 7/1				RIs	befo	re 7/1					1 - 7/1	14		RI	ls 7/	1 - 7/14				s 7/1	5 - 7/3			ls 7/1	5 - 7	31			5 - 8/30	RIs 8/1	5 - 8/30		15 - 8/30
	Zone		I	П	Вr	۱ug	30 Aug		I_	Б	ıg	15 Aug 30 Aug		- 13	<u>.</u>	gr	30 Aug			lu gr	ٽ اug	30 Aug		pr	'ua	30 Aug			6.	30 Aug	e e		30 Aug		30 Aug		30 Aug
Zone Name	Number	RIs	1 Jul	15 Jul	1 A	15/	30 /	SE	1 Jul	15 Jul	1 Aug	30 /	li	2 4	Inc ct	1 A I	3 2	l	2 :	15 Jul 1 Aug	15/	30 /	S.	1 Aug	15 /	8	H	KIS 4	1 1	2 0	3	RIS	30 /	SE	30 /	器	30 /
															Devils	Cany	on PRN	1 153.9	9-166	5.1																	
MOB - Indian - Slough 21	135																																			1	1
MOB - Indian trib	132		1	2	4	4	1											T									Ħ										
Indian River trib	131																										П										
Indian River	130			3									П														IΓ			1							
MOB - Slough11 - Indian	125																	Т									1	1	1					1			
MOB - Gold Creek	119												П														IΓ										
MOB - Slough 11	118												П														IΓ										
MOB - 4th of July - Slough 11	117			1														T	1								Ħ										
MOB - 4th of July Creek	116				2	1			2	1	1	3									1						П										
	115			1			2			2	1	2									1	2					IJĹ										
MOB - Sherman Creek	114												I	I				Ш		1			IL				Ш	I		I	_						
•	112												Ш	I	I	I		Ш					II				Ш	I		I	1						
MOB - Gateway - 4th of July	111		1					3	1		1		Ш					2	1	1							Ш										
Gateway	110																										IJĹ										
MOB - Slough 8A	109																										IJĹ										
MOB - 5th of July Creek	108																										Ш										
MOB - Lane Creek	106																										IJĹ										
MOB - Lane - Gateway	105	8	6	1	1	1	1						Ш														JL					1					
	100				1	1	2						Ш					Ш									Ш										
	98												Ш					11									11										
	97												Щ	$\perp$				11									11										
	96												Ш					11									11						1				
MOB - Talkeetna - Lane	95																	Ш									Ш								1		
																Lo	wer Riv	/er																			
	85												Щ			1	1	Ш									Ш										
	84												Ш					11									11										
	83												Ш														IJĹ										
ADFG Chulitna	82												Ш					Ш					IL				Ш										
	81				L	L		L	$oldsymbol{ol}}}}}}}}}}}}}}}}$				8	8	8	7	6	ΙL				$oldsymbol{ol}}}}}}}}}}}}}}}}$	IL				Ш										
	80												Ш					Ш					IL				Ш										
	78				$\Box$								L										IJĹ				Щ				$oldsymbol{ol}}}}}}}}}}}}}}$						
	77												L					$\prod$					IL				Ш								oxdot		
	76												L	$\perp$				1L	$\perp$				IL				ЦL										
	75												L	$\perp$				$\coprod$	1				IL.				1L										
	71				L	L		L	$oldsymbol{ol}}}}}}}}}}}}}}}}$				IL					ΙL			L	$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$	6	1	4	3	Ш										
Montana	70		Ĺ	Ĺ	L	L		L	匚				Щ					Ш				匚	ΙĹ	5	1		Щ										
MOB - Kashwitna - Montana	65													floor		I		ΙĽ					Ш				Ш	floor									
MOB - Caswell area tribs	63																										Ш										
MOB - Deshka - Kashwitna	55												Ш					Ш								1	Ш										
Total Tags Live		8	8	8	8	7	6	3	3	3	3	3 2	8	8	8	8	7	2	2	2 2	2	2	6	6	5	4	1	1	1	1		1	1	1	1	1	1
Mort tags *		0	0	0	0	1	2	0	0	0	0	0 1	0	0	0	0	1	0	0	0	0	0	0	0	1	2	0	0	0	0		0	0	0	0	0	0

<sup>\*</sup> current location of mort tags not shown in table

Table B7. Humpback whitefish two-week post tagging location status by tagging group.

Whitefish, humpback		RIs	befo	re 7/1				F	RIs 7	7/15 -	7/31			Rls	7/15 -	- 7/31	
, , ,	Zone					бn	Вn	r				-	Ī				
Zone Name	Number	RIS	1 Jul	15 Jul	1 Aug	15 Aug	30 Aug	ŀ	RIS	l Aug	15 Aug	30 Aug		RIS	l Aug	15 Aug	30 Aug
				yon I	PRM 1	•						(-)				,	(-)
MOB - abv Powerline - Portage	145													2	2		
MOB - above Powerline	138												ľ				
Powerline	137												ı				
MOB - Slough 21	136												Ī				
MOB - Indian - Slough 21	135												l				
MOB - Indian trib	132												ı				
Indian River trib	131												ľ				
Indian River	130												ľ				
MOB - Slough11 - Indian	125												ľ				
MOB - Gold Creek	119												Ī				
MOB - Slough 11	118																
MOB - 4th of July - Slough 11	117												Ī				
MOB - 4th of July Creek	116												Ī				
Fourth of July	115																
MOB - Sherman Creek	114																
MOB - Slough 9	112												Ī				
MOB - Gateway - 4th of July	111																
Gateway	110																
MOB - Slough 8A	109																
MOB - 5th of July Creek	108																
MOB - Lane Creek	106																
MOB - Lane - Gateway	105							2	2	2	1						
Lane Creek	100																
MOB - Trib off zone 95	98																
MOB - Whiskers Creek	97											1					
Whiskers	96		1														
MOB - Talkeetna - Lane	95	2															
			L	.ower	River	•											
MOB - Sunshine - Talkeetna	85															1	1
ADFG - Middle Chulitna	84																
MOB - Chulitna River	83																
ADFG Chulitna	82																
MOB - Talkeetna River	81																
ADFG Talkeetna	80																
ADFG Sunshine	78																
MOB - Rabideux Creek	77																
MOB - Sunshine Creek	76							Γ									
MOB - Montana - Sunshine	75							ľ									
MOB - Montana Creek	71							ľ									
MOB - Kashwitna - Montana	65		1	2	1	1	1	f									
Total Tags Live		2	2	2	1	1	1	2	2	2	1	1		2	2	1	1
Mort tags *		0	0	0	1	1	1	0		0	1	1		0	0	1	1

<sup>\*</sup> current location of mort tags not shown in table

Table B8. Round whitefish two-week post tagging location status by tagging group.

Whitefish, round		RIs	befo	re 7/1	1			RI	ls 7/	1 - 7	//14			R	ls 7/	l - 7	//14			RIs	7/15	- 7/31	
	Zone		l _	=	19	15 Aug	30 Aug			=	19	15 Aug	gnv		-	5	19	15 Aug	gnv		<u>6</u>	15 Aug	30 Aug
Zone Name	Number	SE SE	1 Jul	15 Jul	1 Aug	15 A	30 A	a d	2 :	15 Jul	1 Aug	15 A	30 A	١	2   2	Inc ci	1 Aug	15 A	30 A	器	1 Aug	15 A	30 A
	•						nyon									_	-	-					
MOB - Portage trib	152			2	2	2	2							I									
MOB - Jack Long Creek	146													T									
MOB - abv Powerline - Portage	145								T					T	T								
MOB - above Powerline	138													T									
Powerline	137													T									
MOB - Slough 21	136								1					T	1								
MOB - Indian - Slough 21	135								t					t	1	7				1			
MOB - Indian trib	132								+					T	+					Ė		$\vdash$	
Indian River trib	131													t									
Indian River	130								1					t	+								
MOB - Slough11 - Indian	125								1					T	$\top$	7							
MOB - Gold Creek	119						1	H	$\dagger$					t	$\top$	1						H	H
MOB - Slough 11	118						$\vdash$	T	$\dagger$	$\dashv$				t	$\top$	┪			$\Box$			$\vdash$	$\Box$
MOB - 4th of July - Slough 11	117		1	1	2	2	1	T	$\dagger$	┪				T	$\top$	┪						$\vdash$	
MOB - 4th of July Creek	116		Ė	Ì	F	-	Ė	$\vdash$	$\dagger$	$\dashv$				t	$\dashv$	┪			$\vdash$	$\vdash$		H	H
Fourth of July	115			1					+					t	+	-					1		
MOB - Sherman Creek	114			<u>'</u>					$\pm$					H	+	_					'		
MOB - Slough 9	112								+					t	+	7							
MOB - Gateway - 4th of July	111		1	1	1	1	1		+					t	+	-							
Gateway	110		2	_	Ė		<u> </u>	Н	+					H	+	┪							
MOB - Slough 8A	109		_						+					H	+	_							
MOB - 5th of July Creek	108								+					t	+	-							
MOB - Lane Creek	106							-	+					┢	$\dashv$	-						$\vdash$	
MOB - Lane - Gateway	105	11	3	1	2	1	1	-	+					1	1	-	1	1	1				
Lane Creek	100		1	2	_	1	1	_	+					ť	ť	-			•			H	
MOB - Trib off zone 95	98		'				-	-	+					┢	+	4						$\vdash$	
MOB - Whiskers Creek	97							_	+					H	+	_							
Whiskers	96							-	+					┢	+	-						Н	
MOB - Talkeetna - Lane	95				1			-	+					┢	+	_						$\vdash\vdash$	
MOB - Talkeetha - Lane	95				ı		Ļ.	<u></u>															<u> </u>
MOD OL' Tellerite	loc		4	1	4	T	Lowe	RIV	er					T	-	-1				1			
MOB - Sunshine - Talkeetna	85		1	1	1	2	2	_	+					┢	_	4						$\vdash$	
ADFG - Middle Chulitna	84				<u> </u>	$\vdash$	$\vdash$	+	+	_				+	+	-			$\vdash$	-		Ш	$\vdash\vdash$
MOB - Chulitna River	83				<u> </u>	-		+	+					+	+	-			$\vdash$			Н	Н
ADFG Chulitna	82				_	<u> </u>		+	4	$\dashv$		4		+	+	4				-			$\vdash$
MOB - Talkeetna River	81			_	1			1	1		1	1		$\perp$	+	4			Щ	_		Ш	$\square$
ADFG Talkeetna	80		1	1		1	1	Ł	4	_				$\perp$	_	4			Ш			Ш	Ш
ADFG Sunshine	78				<u> </u>	_		$oldsymbol{\downarrow}$	$\downarrow$	_				$\perp$	_	_						Ш	Ш
MOB - Rabideux Creek	77							L	1	ļ				L								Ш	Щ
MOB - Sunshine Creek	76							L						L									
MOB - Montana - Sunshine	75							L															
MOB - Montana Creek	71							L						L									
Montana	70								$oldsymbol{\mathbb{I}}$	_]						_]							
MOB - Kashwitna - Montana	65								T					Γ									
MOB - Caswell area tribs	63								Ι														
MOB - Deshka - Kashwitna	55								Ī				1										
Total Tags Live		11	10	10	10	10	10	1	1		1	1	1	1	1		1	1	1	1	1	0	0
Mort tags *		0	1	1	1	1	1	0	0	)	0	0	0	0	0		0	0	0	0	0	1	1
* current location of mort tags not s														-						-			

<sup>\*</sup> current location of mort tags not shown in table