

Mat-Su Salmon Partnership Projects 2010-2012

No.	FHP	Project Title	Original FIS No. or Agreement #	FWS Climate Change Strategy	NFHP Conservation Strategy	Primary FHP Strategic Plan Goal	Project Approval Year	Partner	State	Congress. District	NFHP FWS Funds	NFHP project Partner Match	Total NFHP Project	Short Project Description (255 char. limit)	Criterion 1: Project informed by habitat or other science assessment	Criterion 2: FHP Priority Area/Species	Criterion 3: FWS Priority Species/Trust Species	Criterion 4: Project Completion (completed, active, but phases completed on time; not completed)	Criterion 4: Success: Short description describing how project is completed according to project design	Criterion 5: Monitoring & Evaluation. Provide brief description on how projects are evaluated.	Criterion 6: Leverage: Non-FWS cash or in-kind. Provide \$ amount	Criterion 6: Leverage: Non-FWS funds. Describe source of leveraged funds.	Other Leverage: Non-NFHP FWS Funds	Other Leverage: Source of Non-NFHP FWS Funds	Measurable Project Outcomes. Provide brief summary of project outcomes any lessons learned. Use fields to right to report outputs.	Protection Projects	Restoration Projects	Assessment Projects	Coordination and Outreach	
1	MatSu Salmon Habitat Partnership	Knik Islands Coastal and Estuary Protection Project	70181AJ007	3.3, 3.5	1	2. Alteration of Riparian Areas and 10. Loss of Estuaries and Nearshore Habitats	2010	GLT	Alaska	AK-00	NA	NA	NA	Protection of 4,800 acres of priority estuary habitat, clearwater side channels and islands important for spawning and rearing.	Yes, estuarine habitat is a very high priority, documented in the prioritization study of parcels for conservation benefit for salmon, <a href="http://www.greatlandtrust.org/whatwedo/priorization.html">http://www.greatlandtrust.org/whatwedo/priorization.html</a>	Coho, chinook, pink and chum salmon	Coho, chinook, pink and chum salmon	Completed	Field Office Verified. Completed as per scope and timing as the largest protection project within the Partnership area.	Per terms of the conservation easement, the Land Trust is required to monitor land on an annual basis with a site specific plan to ensure it has not been degraded by human use and that the conservation terms and conditions remain in place in perpetuity. Further, Appendix 12 of the Mat-Su Partnership action plan includes monitoring plan details for this type of project.	\$2,600,000	Great Land Trust (non-profit 501 C3)	\$48,000	Coastal Program	Protection of 4,800 acres of priority estuary habitat and islands for salmon rearing.	X				
2	MatSu Salmon Habitat Partnership	Protecting Fish Habitats in the Mat-Su via the Alaska Anadromous Waters Catalog	71450-2008-1094	2.4	1	1. Overarching Science Strategies	2010	FWS Fisheries	Alaska	AK-00	\$30,000	\$145,073	\$175,073	Efforts expanded the waters important to anadromous fish in the Knik Watershed area and recorded aquatic habitat characteristics at survey sites. Over 600 hectares of lake/wetland complexes and 10 kilometers of streams were surveyed in 2010, and 9 nominations were made to update the AWC.	Yes, estimate is only 4,200 mapped miles of MatSu streams in catalog out of 23,900 miles of stream. <a href="http://www.fws.gov/alaska/fisheries/FishData_Series4_2011_10.pdf">http://www.fws.gov/alaska/fisheries/FishData_Series4_2011_10.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project year completed as per approved investigation plan and over 50 miles of anadromous habitat added to the catalog. Data passed biometric review and in a published data report.	Project was in an approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	30 miles of anadromous stream cataloged in strategic areas for ADFG.	X				
3	MatSu Salmon Habitat Partnership	LIDAR Topographic Data and Orthorectified Aerial Imagery Acquisition for the Mat-Su Valley and Nearby Areas	71450-2010-1168	2.4	1	1. Overarching Science Strategies; 2. Alteration of Riparian Areas	2010	MSB	Alaska	AK-00	\$50,000	\$663,000	\$713,000	Acquisition of high resolution LIDAR and aerial photography data for 3,680 sq. mi. of the Mat-Su Borough to create digital elevation model, contours and orthorectified imagery. Data are publicly available and provide important information for flood plain mapping, permitting, etc.	Yes, identified in the 2008 Big Lake Forum a science need for habitat modeling, stream mapping, riparian setbacks.	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. LIDAR project completed as per scope and expanded to include 40% more area as one of the largest datasets in the state. Used to begin habitat modeling and stream mapping efforts for future years.	Project had an approved quality control and assurance program to USGS geospatial standards which was compared by the partner, USGS and third party during the course of acquisition.	\$1,487,000	Coastal Impact Assistance Program Grants, MSB funds, USGS, State, Corps of Engineers, NOAA	Not applicable	Not applicable	3,680 square miles of MatSu mapped at 1 foot contours and other imagery taken for use in habitat assessment and modeling.			X		
4	MatSu Salmon Habitat Partnership	Ground and Surface Water Interaction in the Lucile Creek Basin: Implications for Freshwater Supply to Mat-Su Salmon Streams	71450-2009-1154	2.4	1,2	1. Overarching Science Strategies	2010	USGS	Alaska	AK-00	\$48,000	\$48,000	\$96,000	Ground water - surface water interactions along Lucile creek were studied to better understand and model spatial and temporal variability in hydrologic conditions. From this study the importance of groundwater contributions to base flow for maintaining salmon overwintering habitat was identified.	Yes, a large USGS groundwater study and the Science and Data Committee identified knowing surface and groundwater interaction as a need, resulting in an Action Plan Objective. <a href="http://pubs.usgs.gov/sir/2013/5049/">http://pubs.usgs.gov/sir/2013/5049/</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Gaging and ground/surface water interaction testing completed on time and incorporated into PhD study of groundwater interactions in MatSu through USGS.	Gaging and other testing conducted and monitoring according to USGS protocols in a PhD study. Quality control monitored by USGS experts and evaluated by panel of groundwater experts.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment completed and the close interaction between surface and ground water in the area documented to inform future decisions on water use and development.				X	
5	MatSu Salmon Habitat Partnership	Estimate sockeye and Coho salmon spawning distribution in the Big Lake watershed (Year 2)	71450-2010-1160	1.4, 2.4	1	1. Overarching Science Strategies	2010	FWS Fisheries	Alaska	AK-00	\$48,260	\$177,750	\$226,010	Understanding distribution of salmon in the watershed is critical to prioritizing restoration activities. Run timing, spawning distribution, and critical habitats of sockeye and coho salmon in the Big Lake watershed were identified. Sockeye salmon arrived and spawned earlier than coho salmon. Sockeye salmon primarily spawned in Meadow Creek and Big Lake, while coho salmon primarily spawned in Meadow and Fish creeks.	Yes, The 2008 Big Lake Forum highlighted this watershed as a priority need as well as Alaska Department of Environmental Quality.	Coho and sockeye Salmon	Coho and sockeye Salmon	Completed	Field Office Verified. Project year completed successfully as per approved investigation plan and used to direct future work in next fiscal year as well as serve as basis for future fish passage habitat modeling and fish passage prioritization. Data passed biometric review and in a published data report.	Project was in an approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	90 square mile watershed coho salmon distribution and overwintering habitat evaluated - start of a year project to prioritize fish passage barriers.				X	
6	MatSu Salmon Habitat Partnership	Eka Creek Culvert Step-Pool Construction	71450-2008-1125	2.3	3	4. Culverts that Block Fish Passage	2010	CVTC	Alaska	AK-00	\$24,684	\$20,000	\$44,684	A step-pool system was constructed at the outlet of a set of perched culverts on Eka Creek in Sutton, Alaska to remove a barrier to fish passage. Project opened 0.25 miles of upstream habitat to juvenile coho salmon. As part of larger effort, this removal contributed to opening the entire system for salmon.	Yes, Fish Passage at Culverts in the Mat-Su Borough, Alaska, ADFG, O'Doherty and Eisenman, 2012 (in press)	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Step-pools completed as designed and permitted allowing one barrier to be removed for fish passage.	Design consultant surveyed as-built construction and compared that to design for approval by the Service project manager and road owner. Project was field checked by Alaska Departments of Transportation and Fish and Game. Further monitoring parameters for this type of project found in Appendix 12 of the Action Plan.	Not applicable	Not applicable	Not applicable	Not applicable	One barrier and 0.25 miles of upstream habitat opened to upstream movement of coho juvenile salmon. Done in conjunction with additional barrier removal upstream to open entire system to fish passage.			X		
7	MatSu Salmon Habitat Partnership	Assessment of Limiting Factors for Distribution and Production of Juvenile Salmon at Risk from Development	71450-2009-1150	1.4, 2.4	1	1. Overarching Science Strategies	2010	FWS Fisheries	Alaska	AK-00	\$44,056	\$172,781	\$216,837	Juvenile coho salmon distributional limits and habitat use characteristics in high gradient tributaries of the Little Susitna River were determined. Select tributaries were sampled for juvenile coho abundance and habitat parameters, and results were modeled to assess habitat usage.	Yes, The Science and Data Committee identified this as a need through the Conservation Action Planning process that created the Strategic Plan.	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project year completed successfully as per approved investigation plan and used to direct future work in next fiscal year as well as serve as basis for future fish passage habitat modeling. Data passed biometric review and in a published data report.	Project was in an approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment completed that documented juvenile growth differences between wetland and upland streams.				X	
8	MatSu Salmon Habitat Partnership	Restoration, Education, and Monitoring on Mat-Su Streams	71450-2010-1167	2.3, 2.9	1,3,4	2. Alteration of Riparian Areas	2010	WSWCD	Alaska	AK-00	\$30,000	\$30,000	\$60,000	Multiple restoration and education projects were initiated and completed in the Mat-Su basin, streambank restoration, assessment and monitoring work occurred on seven watersheds; four school groups and other youth interns were involved on several of these projects.	Yes, restoration projects were identified on priority streams, later documented here: <a href="http://www.greatlandtrust.org/whatwedo/priorization.html">http://www.greatlandtrust.org/whatwedo/priorization.html</a> .	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed restoration activities as per scope and informed youth of the benefits of restoration.	FWS staff attended all restoration events and projects evaluated 1-2 years later for successful plantings. See Appendix 12 of the action plan for further monitoring plan details for this type of project.	Not applicable	Not applicable	Not applicable	Not applicable	Multiple small restorations performed; series of outreach events held.			X		
9	MatSu Salmon Habitat Partnership	Assessment of Effects of Stormwater Runoff and Classification of Mat-Su Fish Habitat - Juvenile Fish Distribution	71450-2010-1159	2.4, 2.7	1,4	6. Impervious Surfaces & Stormwater Pollution	2010	ARRI	Alaska	AK-00	\$25,000	\$12,700	\$37,700	Initiate implementation of a biological monitoring protocol using fish communities to assess water quality in streams of the Mat-Su basin. 16 stream locations representing 4 stream types were assessed to describe fish community, water temperature and discharge and habitat characteristics.	Yes, Partnership Strategic Action Plan item informed by state of the science and best management practices for storm water listed as a water quality need. <a href="http://www.matsustormwater.info/?q=stormwaterplan">http://www.matsustormwater.info/?q=stormwaterplan</a>	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Completed as per scope and information used to assess quality of water and use of habitats by juvenile salmon as well as in the first Storm Water Management Plan completed in 2013.	Water quality testing and locations approved by USFWS project manager in an investigation plan. Results were checked by project manager to plan and semi-annual reports monitoring for progress.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment that started to make links between storm water quality and juvenile fish use.				X	
10	MatSu Salmon Habitat Partnership	Matanuska-Susitna Wetland Inventory and Assessment	F11PC00444	3.4	1	5. Filling of Wetlands	2011	KWF	Alaska	AK-00	NA	NA	NA	Map all wetlands in the urbanizing area within a 1 million acre area of the Mat-Su using the Cook Inlet Classification system.	Yes, Wetland mapping was listed as a science and regulatory need in the Corps of Engineers Matanuska-Susitna Watershed Study, 2008, and in Partnership Strategic Action Plan.	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Completed as per scope and information, mapping updated online at <a href="http://www.cookinletwetlands.info/">http://www.cookinletwetlands.info/</a>	FWS staff monitored progress, all milestones met and quality control maintained with consistent methods applied.	\$423,268	Corps of Engineers	Not applicable	Not applicable	1,003,233 acres mapped; 257,889 acres of wetland identified, mapped and classified.				X	
11	MatSu Salmon Habitat Partnership	O'Brien Creek Estuary Conservation Project	71450-2011-1181	3.3, 3.5	1	2. Alteration of Riparian Areas and 10. Loss of Estuaries and Nearshore Habitats	2011	GLT	Alaska	AK-00	\$17,500	\$55,500	\$73,000	A 30 acre parcel of estuarine wetland at the mouth of O'Brien Creek identified as part of a habitat prioritization process received all necessary preliminary baseline assessment and characterization reports towards placing a conservation easement on the property.	Yes, estuarine habitat is a very high priority, documented in the prioritization study of parcels for conservation benefit for salmon, <a href="http://www.greatlandtrust.org/whatwedo/priorization.html">http://www.greatlandtrust.org/whatwedo/priorization.html</a> and by Science and Data Committee in Strategic Action Plan	Coho and chinook salmon	Coho and chinook salmon	Completed	Field Office Verified. Completed land acquisition as per scope and land trust procedures.	Per terms of the conservation easement, the Land Trust is required to monitor land on an annual basis with a site specific plan to ensure it has not been degraded by human use and that the conservation terms and conditions remain in place in perpetuity. Further, Appendix 12 of the Mat-Su Partnership action plan includes monitoring plan details.	111,500	National Fish and Wildlife Foundation, Great Land Trust, Private Foundations, Mat-Su Borough and Conservation Fund	Not applicable	Not applicable	30 acres of estuary conserved.	X				
12	MatSu Salmon Habitat Partnership	Inventory of Fish Distribution in the Mat-Su Basin, 2011	71450-2011-1186	3.3	1	1. Overarching Science Strategies	2011	FWS Fisheries	Alaska	AK-00	\$32,262	\$109,000	\$141,262	Waters important to anadromous fish in the Knik Watershed area were expanded, and fish and aquatic habitat parameters were collected from 10 study areas to examine occupancy dynamics and habitat use of juvenile coho salmon. Eight nominations to update the AWC were made and 225 hectares were surveyed.	Yes, estimate is only 4,200 mapped miles of MatSu streams in catalog out of 23,900 miles of stream. <a href="http://www.fws.gov/alaska/fisheries/FishData_Series4_2011_10.pdf">http://www.fws.gov/alaska/fisheries/FishData_Series4_2011_10.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project year completed as per approved investigation plan and over 50 miles of anadromous habitat added to the catalog. Data passed biometric review and in a published data report.	Project was in an approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	30 miles of anadromous stream cataloged in strategic areas for ADFG.	X				
13	MatSu Salmon Habitat Partnership	Assessing Progress on the Strategic Action Plan Through the Mat-Su Salmon Symposium	71450-2011-1182	4.4	1,2,3,4	IV. Organizational Goals	2011	TNC	Alaska	AK-00	\$26,738	\$26,738	\$53,476	Provide coordination and support for the Mat-Su Basin Salmon Habitat Partnership including annual salmon science symposiums and update of the strategic action plan.	Yes, having coordination and support for the symposium was documented as a need by the Partnership membership survey.	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Project completed as per scope which included symposium, meetings, addressing all national data requests.	Project was monitored by FWS restoration staff for milestones completed including symposium creation, meetings held, national requests answered, action plan comment solicitation. Table 11 in Appendix 12 of the Action plan includes plan for monitoring and evaluate the operations of the Partnership	Not applicable	Not applicable	Not applicable	Not applicable	One symposium, quarterly meetings and all national data requests handled.				X	
14	MatSu Salmon Habitat Partnership	The Mat-Su Borough Reservation of Water Program, Alaska	71450-2011-1184	3.4	1,2	9. Loss or Alteration of Water Flow or Volume	2011	USGS	Alaska	AK-00	\$28,000	\$53,778	\$81,778	Obtain one year of gaging data to support water reservations on Wasilla Creek a part of the Mat-Su Water Reservation Program.	Yes, a priority objective of action plan and documented by the state. <a href="http://www.adfg.alaska.gov/FedAidpdfs/SP12_11.pdf">http://www.adfg.alaska.gov/FedAidpdfs/SP12_11.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. One year of gaging completed as per scope by USGS	Gaging conducted and monitored by USGS according to USGS protocols. Quality control monitored by USGS experts through their internal reviews.	Not applicable	Not applicable	Not applicable	Not applicable	One year of gage data taken, Wasilla Creek water reservations filed.	X				
15	MatSu Salmon Habitat Partnership	Riparian Revegetation and Shoreline Rehabilitation in the Matanuska-Susitna Basin	71450-2011-1185	3.3	1,4	2. Alteration of Riparian Areas	2011	ADFG	Alaska	AK-00	\$41,033	\$20,926	\$61,959	Nearshore salmon habitat and riparian function was rehabilitated along 700 feet of impacted shoreline. Private land owners and public land managers were educated about the value of riparian stewardship to ensure salmon health and mitigate climate change impacts to salmon, particularly stream temperature impacts.	Yes, this type of need is documented in the report "A Comprehensive Inventory of Impaired Anadromous Fish Habitats in the Matanuska-Susitna Basin, with Recommendations for Restoration by State Fish and Game"	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed as per scope and investigation plan.	FWS staff attended all restoration events and projects evaluated 1-2 years later for successful plantings. See Appendix 12 of the action plan for further monitoring plan details for this type of project.	Not applicable	Not applicable	Not applicable	Not applicable	700 feet of riparian area restored on priority salmon streams.			X		
16	MatSu Salmon Habitat Partnership	Distribution Patterns of Juvenile Coho Salmon in Tributaries of the Little Susitna River, Alaska	71450-2011-1183	4.3	1,3	1. Overarching Science Strategies	2011	ARRI	Alaska	AK-00	\$75,547	\$121,748	\$197,295	Juvenile coho salmon distributional limits and habitat use characteristics in high gradient tributaries of the Little Susitna River were determined. Select tributaries were sampled for juvenile coho abundance and habitat parameters, and results were modeled to assess habitat usage.	Yes, this type of work was identified and supported by the Science and Data Committee during the conservation action planning process to create the action plan.	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed as per scope and approved investigation plan by field office.	Project was in an approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment completed that documented juvenile growth differences between wetland and upland streams.				X	
17	MatSu Salmon Habitat Partnership	Biotic Assessment of Stormwater Quality	71450-2011-1178	3.4, 4.3	1,4	6. Impervious Surfaces & Stormwater Pollution	2011	ARRI	Alaska	AK-00	\$28,920	\$46,050	\$74,970	Assess potential impacts of stormwater on juvenile salmon and macroinvertebrate communities by collecting physical and chemical water quality parameters and biotic metrics in three streams. Data were analyzed to determine if deleterious effects on biotic communities could be measured where inputs of stormwater runoff and high percent impervious cover occur.	Yes, this type of action was identified and supported by the Mat-Su Borough's Stormwater Management Plan. <a href="http://www.matsustormwater.info/?q=stormwaterplan">http://www.matsustormwater.info/?q=stormwaterplan</a> and Partnership's Strategic Action Plan	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Project completed as per scope which included project design, quality control procedures as approved by field office. All locations and water quality results were documented.	Project in an approved investigation plan and monitored by FWS staff. Quality control checked for water quality samples and all results written up in a final document.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment completed that documented a baseline survey of stormwater water quality effects in developed areas of Mat-Su.				X	

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19	MatSu Salmon Habitat Partnership	Matanuska River Clearwater Side Channel Habitat Conservation Project	71450-2011-1206	3.2, 3.3	1	2. Alteration of Riparian Areas and 10. Loss of Estuaries and Nearshore Habitats	2012	GLT	Alaska	AK-00	\$38,000	\$38,000	76,000	Important spawning and rearing habitat for sockeye, chum and coho salmon will be preserved via permanent conservation easements. The Conservation Easement will preserve freshwater inputs to the Matanuska River, providing a development buffer along important riparian habitat and intact anadromous waters for the benefit of salmon.	Yes, this location for conservation is supported by land trust prioritizations <a href="http://www.greatlandtrust.org/whatwedo/prioritization.html">http://www.greatlandtrust.org/whatwedo/prioritization.html</a>	Coho, chinook, sockeye and chum salmon	Coho, chinook, sockeye and chum salmon	Active	Field Office Verified. Project is on schedule and milestones are being met. One phase of the project is complete protecting 160 acres. Active and working with landowners to conserve property along the clear water side channels prioritized for the proposal.	Per terms of the conservation easement, the Land Trust is required to monitor land on an annual basis with a site specific plan to ensure it has not been degraded by human use and that the conservation terms and conditions remain in place in perpetuity. Further, Appendix 12 of the Mat-Su Partnership action plan includes monitoring plan details for this type of project.	\$195,000	Great Land Trust/Landowner	Not applicable	Not applicable	Milestones met, still active project. 160 acres	X				
20	MatSu Salmon Habitat Partnership	2012 Mat-Su Water Reservation Program Flow Data Acquisition	71450-2011-1203	2.3, 3.2, 3.4, 4.3	1	9. Loss or Alteration of Water Flow or Volume	2012	USGS	Alaska	AK-00	\$53,000	\$55,828	108,828	Obtain one year of gaging data to support water reservations on Kasliwina and Wasilla Creek as part of the Mat-Su Water Reservation Program.	Yes, a priority objective of action plan and documented by the state. <a href="http://www.adfg.alaska.gov/FedAidpfs/SP12-11.pdf">http://www.adfg.alaska.gov/FedAidpfs/SP12-11.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. One year of gaging completed as per scope by USGS.	Gaging conducted and monitored by USGS according to USGS protocols. Quality control monitored by USGS experts through their internal reviews.	Not applicable	Not applicable	Not applicable	Not applicable	One year of gage data taken, finalized data acquisition on Kasliwina River.	X				
21	MatSu Salmon Habitat Partnership	Mat-Su Stream Temperature Monitoring Network	71450-2011-1217	2.3, 4.3	1	3. Climate Change	2012	CIK	Alaska	AK-00	\$23,300	\$23,300	46,600	Implementation of a temperature monitoring network on 21 non-glacial streams in the Mat-Su basin taking continuous air and water temperature measurements during the open water period. Five years of data (2008-2012) were collected and analyzed and show numerous exceedences of the State water quality criteria for protection of fish.	Yes, this work is supported and documented by USGS and nonprofits alike at <a href="http://milekeeper.org/healthy-habitat/stream-temperature-monitoring-network-and-partnership/strategic-action-plan">http://milekeeper.org/healthy-habitat/stream-temperature-monitoring-network-and-partnership/strategic-action-plan</a> .	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Project completed as per scope and interagency approved quality control and investigation plan approved by field office.	Project was in a approved investigation plan that was monitored by FWS Restoration staff for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	Network documented higher stream temperatures and used in analysis of "hot" and "cold" streams for future implications of climate change and which streams could be more resilient.			X		
22	MatSu Salmon Habitat Partnership	Riparian Revegetation and Shoreline Rehabilitation at Montana Creek	71450-2011-1204	3.3, 3.4	2, 3	2. Alteration of Riparian Areas	2012	USSCD	Alaska	AK-00	\$21,908	\$22,221	44,129	Restore 30 feet of bank on a primary sport fishery for kings and coho salmon on Montana Creek with bioengineering, assess area for restoration projects and conduct demonstration projects for invasive species control.	Yes, this type of need is documented in the report "A Comprehensive Inventory of Impaired Anadromous Fish Habitats in the Matanuska-Susitna Basin, with Recommendations for Restoration by State Fish and Game".	Coho and chinook salmon	Coho and chinook salmon	Completed	Field Office Verified. Project completed as designed.	FWS staff attended all restoration events and projects evaluated 1-2 years later for successful plantings. See Appendix 12 of the action plan for further monitoring plan details for this type of project.	Not applicable	Not applicable	Not applicable	Not applicable	30 feet of shoreline restored.		X			
23	MatSu Salmon Habitat Partnership	Inventory of Fish Distribution in the Mat-Su Basin 2012 - for Inclusion in AWC and Habitat Protection - CVTC	71450-2011-1216	2.3	1	1. Overarching Science Strategies	2012	FWS Fisheries	Alaska	AK-00	\$39,357	\$54,500	93,857	Fish sampling in the Knik Watershed area was completed to update the AWC, resulting in 7 nominations to the AWC. The spatial distribution of off-road vehicle (ORV) trails within the KRPIA was mapped (over 200km), and 13 stream crossings were assessed for degradation and ranked to identify and prioritize areas of concern or habitat restoration projects.	Yes, estimate is only 4,200 mapped miles of MatSu streams in catalog out of 23,900 miles of stream. <a href="http://www.fws.gov/alaska/fisheries/fishDataSeries/d_2011_10.pdf">http://www.fws.gov/alaska/fisheries/fishDataSeries/d_2011_10.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed as per approved investigation plan. Data passed biometrician review and in a published data report.	Project was in a approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	20 miles of anadromous stream cataloged in strategic area for ADFG.	X				
24	MatSu Salmon Habitat Partnership	Inventory of Fish Distribution in the Mat-Su Basin 2012 - for Inclusion in AWC and Habitat Protection - FWS	71450-2011-1213	2.3	1	1. Overarching Science Strategies	2012	CVTC	Alaska	AK-00	\$23,208	\$54,500	77,708	Fish sampling in the Knik Watershed area was completed to update the AWC, resulting in 7 nominations to the AWC. The spatial distribution of off-road vehicle (ORV) trails within the KRPIA was mapped (over 200km), and 13 stream crossings were assessed for degradation and ranked to identify and prioritize areas of concern or habitat restoration projects.	Yes, estimate is only 4,200 mapped miles of MatSu streams in catalog out of 23,900 miles of stream. <a href="http://www.fws.gov/alaska/fisheries/fishDataSeries/d_2011_10.pdf">http://www.fws.gov/alaska/fisheries/fishDataSeries/d_2011_10.pdf</a>	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed as per approved investigation plan. Data passed biometrician review and in a published data report.	Project was in a approved investigation plan that was monitored by FWS Fishery staff and biometrician for adherence to the plan and consistency. All work put into a data report.	Not applicable	Not applicable	Not applicable	Not applicable	20 miles of anadromous stream cataloged in strategic area for ADFG.	X				
25	MatSu Salmon Habitat Partnership	Juvenile Salmon Use of Knik Arm Estuaries in support of Habitat Protection	71450-2011-1219	2.3, 4.3	1	10. Loss of Estuaries & Nearshore Habitats	2012	ARRI	Alaska	AK-00	\$33,223	\$15,319	48,542	Estuarine habitats in Cottonwood Creek, Wasilla Creek, Palmer Slough, and O'Brien Creek were surveyed for fish presence and water quality during large tidal changes to document juvenile salmon use relative to other fresh-water reaches. This information will be used to support habitat protection and restoration measures.	Yes, this work is supported by the document "Knik Arm Salmon Ecology Integrated Research Plan" prepared for FWS in 2010.	Coho, chinook, sockeye, pink and chum salmon	Coho, chinook, sockeye, pink and chum salmon	Completed	Field Office Verified. Project completed as scoped.	Project was in a approved statement of work that was monitored by Habitat Restoration staff. Methods were documented and all data went into a written report.	Not applicable	Not applicable	Not applicable	Not applicable	One assessment performed that documented the performance of fyke nets in estuary sampling for juvenile salmon and it's ability to be used to estimate density of fish use.			X		
26	MatSu Salmon Habitat Partnership	Swiftwater Creek Cooperative ATV/ORV Outreach, Trail and Restoration Plan	71450-2011-1205	3.3, 3.4	3	2. Alteration of Riparian Areas, 11. Motorized Off-Road Recreation	2012	WSWCD	Alaska	AK-00	\$14,150	\$18,970	33,120	Project is to restore a degraded ATV crossing by directing traffic to one location and restoring up to 100 feet of bank with bioengineering and native vegetation on a priority salmon stream.	Yes, this type of need is documented in the report "A Comprehensive Inventory of Impaired Anadromous Fish Habitats in the Matanuska-Susitna Basin, with Recommendations for Restoration by State Fish and Game".	Coho Salmon	Coho Salmon	Active	Field Office Verified. Project is active and scope changed to select another location on a similar priority stream with a willing landowner. Timeline has been adjusted for the summer of FY14.	Project to be monitored with photo points and design/constructed comparison and later 1-2 years for planting success as well as FWS staff onsite during construction. See Appendix 12 of the action plan for further monitoring plan details for this type of project.	Not applicable	Not applicable	Not applicable	Not applicable	Milestones met, still active project.		X			
27	MatSu Salmon Habitat Partnership	Salmon Habitat Restoration in the Knik River Public Use Area	71450-2011-1212	3.3, 3.4	3	2. Alteration of Riparian Areas	2012	PSWCD	Alaska	AK-00	\$30,150	\$30,150	60,300	A highly degraded 50 foot section of shoreline along Jim Lake was converted into a single lane boat launch to prevent the shoreline from being further degraded from recreational use. The entrance was re-sloped to prevent storm-water runoff from entering the anadromous spawning grounds, and the shoreline was stabilized and revegetated to prevent further erosion.	Yes, this type of need is documented in "A Comprehensive Inventory of Impaired Anadromous Fish Habitats in the Matanuska-Susitna Basin, with Recommendations for Restoration by State Fish and Game".	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Project completed as permitted and designed.	Project monitored with photo points and design/constructed comparison and later 1-2 years for planting success. See Appendix 12 of the action plan for further monitoring plan details for this type of project.	Not applicable	Not applicable	Not applicable	Not applicable	50 feet of shoreline restored in the Knik area.		X			
28	MatSu Salmon Habitat Partnership	Sunshine Creek Fish Passage Project	71450-2011-1220	3.2, 3.3	3	4. Culverts that Block Fish Passage	2012	ARRC	Alaska	AK-00	\$2,104	\$100,000	102,104	A smooth, concrete culvert was replaced with a bridge on the Alaska Railroad on Sunshine Creek, a important sport fishery for coho salmon, opening 3.2 miles of upstream habitat.	Yes, Fish Passage at Culverts in the Mat-Su Borough, Alaska, ADFG, O'Doherty and Eisenman, 2012 (in press)	Coho Salmon	Coho Salmon	Completed	Field Office Verified. Culvert replacement completed as designed and permitted allowing one barrier to be removed for fish passage.	Surveyed as-built construction and compared that to design. Project was field checked by State Fish and Game and FWS Field staff. NOAA Monitoring requirements met for funding. Further monitoring parameters found in Appendix 12 of the Action Plan.	\$600,000	AK-DNR Sustainable Salmon Grant from ADFG and Alaska Railroad Capital Improvement Funds	\$0	\$0	One barrier and 3.2 miles of upstream habitat opened to upstream movement of coho juvenile salmon.			X		