# comprehensive Data delivery README FILE (INTERNAL)

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| **Study Section** | Study 9.11: Fish Passage Feasibility at Watana Dam |
| **Study Component** | N/A |
| **Field Date Range** | No Field Data Collection |

**Introduction:** The goal of this study is to develop, to the feasibility level, a fish passage strategy in support of the License Application for the proposed Project. A variety of engineering, biological, sociological, and economic factors will be considered during this process as it continues through 2014. The study will explore various alternatives in support of three basic strategies related to fish passage: (1) proposed Project without fish passage, (2) integration of upstream and downstream passage features into the current Project design, and (3) the retrofit of upstream and downstream fish passage features to a Project designed without passage.

In the context of this study “retrofit” means that fish passage features would be either geographically or temporally independent from the dam design. A retrofitted passage facility may be constructed some distance upstream or downstream from the dam or later in the future after the construction of the dam, and thus is independent of the dam design process. Option 3, the retrofit option, avoids constraints with having the only option of fish passage being part of the dam structure. Thus, the feasibility evaluation can examine a wider spectrum of passage alternatives.

An internal Fish Passage Confidential Strategy Memorandum was prepared by R2 Resource Consultants, Inc. (R2) as part of closeout for Study 9.11 Fish Passage Feasibility at Watana Dam following the suspension of the study due to the State of Alaska Executive Order in December 2014. This document is intended for AEA internal use to assist with future development of fish passage strategies based on the data developed to date with Study 9.11 if/when the project moves forward to toward a license application.

**Data Summary:**

Fish Passage Feasibility at Watana Dam (Study 9.11) will utilize information gathered under Studies 9.5, 9.6, and 9.7; therefore, there is no database is available for this study.

**Data Organization:**  N/A

**Software Considerations: N/A**

**Online Data Link:**  N/A

**Online Report Link:** To aid review, study documents using this study component are listed below. Each of these documents is accessible on AEA’s Project licensing website (<http://www.susitna-watanahydro.org/type/documents/>) or through FERC’s eLibrary system (<http://www.ferc.gov/docs-filing/elibrary.asp>), in Docket No. P-14241. In addition to publicly available documents, a link is provided to the Fish Passage Confidential Strategy Memorandum in the table below.

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| Title | Date Filed | Description | Link |
| 9.11. Study of Fish Passage Feasibility at Watana Dam (Revised Study Plan) | 12/14/2012 | This document presents the plan for the Study of Fish Passage Feasibility at Watana Dam, including goals, objectives, the study area, and proposed study methods. | [RSP for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2012/12/04-RSP-Dec2012_4of8-Sec-9-FishandAquaticResources-v2.pdf) |
| FERC’s Study Plan Determination for Study 9.11 | 2/1/2013 | This document presents FERC approval of Study 9.11, which approved AEA’s Revised Study Plan with no recommended changes. | [FERC SPD for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2015/11/20130201_FERC_SPD.pdf) |
| FERC’s Study Dispute Determination | 4/26/2013 | This document presents FERC’s Study Dispute Determination for Study 9.11, which required adjustments to the study. | [FERC SDD for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2015/11/20130426_FERC_DirectorsDisputeDetermination.pdf) |
| Draft Initial Study Report for Study 9.11 | 2/3/2014 | This draft of the ISR summarized the study methods and variances during the 2013 study season, and presented preliminary data collected for Study 9.11. This draft ISR was later republished as Part A of the final ISR. | [Draft ISR for Study 9.11 (File 1)](http://www.susitna-watanahydro.org/wp-content/uploads/2014/01/09.11_PASS_ISR_Draft_1_of_2.pdf)  [Draft ISR for Study 9.11 (File 2)](http://www.susitna-watanahydro.org/wp-content/uploads/2014/01/09.11_PASS_ISR_Draft_2_of_2_App_C-D.pdf) |
| Initial Study Report for Study 9.11 | 6/3/2014 | This document is the Initial Study Report (Parts A, B and C) for Study 9.11. Part A republishes the Draft ISR. Part B identifies supplemental information and errata in Part A. Part C presents study modifications and plans for completing the study. | [ISR Part A for Study 9.11 (File 1)](http://www.susitna-watanahydro.org/wp-content/uploads/2014/05/09.11_PASS_ISR_PartA_1_of_2.pdf)  [ISR Part A for Study 9.11 (File 2)](http://www.susitna-watanahydro.org/wp-content/uploads/2014/05/09.11_PASS_ISR_PartA_2_of_2_App_C-D.pdf)  [ISR Part B for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2014/06/09.11_PASS_ISR_PartB.pdf)  [ISR Part C for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2014/06/09.11_PASS_ISR_PartC.pdf) |
| Technical Team Meeting: 3 day Fish Passage Feasibility Workshop | 9/9/2014 -9/11/2014 | The purpose of this 3 day workshop was to review the project and biological information relevant to fish passage, review initial concept development, brainstorm fish passage alternatives, and to review and discuss preliminary evaluation criteria. | [Agenda](http://www.susitna-watanahydro.org/wp-content/uploads/2014/09/2014-09-09_FishPassage_Agenda.pdf)  [Meeting Notes](http://www.susitna-watanahydro.org/wp-content/uploads/2015/03/2014_09_0911_TWG_FishPassage_Notes_Final.pdf)  [Information Needs, Location, and Status Summary](http://www.susitna-watanahydro.org/wp-content/uploads/2014/09/AEASuWa_FishPassageStudy_Info_2014Sep-Rev-6.pdf)  [Presentation for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2014/09/Info_Item_P3-P5_8-26-2014.pdf) |
| Fisheries Technical Team Meeting for Study 9.11 | 12/3/2014 | The purpose of this technical team meeting was to continue discussion and agreements for developing the criteria and alternatives to up and down stream fish passage. | [Agenda](http://www.susitna-watanahydro.org/wp-content/uploads/2014/11/2014-12-03_Draft-Fish-Passage-Mtg5_Agenda1.pdf)  [Meeting Notes](http://www.susitna-watanahydro.org/wp-content/uploads/2015/03/2014-12-03_TT_DraftFishPassage_Notes_20141217.pdf)  [Presentation for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2015/10/Brainstorming-Concepts-Tally_R2-Reconcile-12-11-14.pdf) |
| 2014 Study Implementation Report for the Study of Fish Passage Feasibility at Watana Dam | 11/4/2015 | A summary of tasks completed during 2014. Includes appendices A -Biological Performance Tool, B- Updated Summary of Biological Information and C -Reconciled Brainstorm Concepts and Tally. | [2014 SIR for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2015/10/9.11_PASS_SIR_wApp_A-C1.pdf) |
| Initial Study Report –Part D for Study 9.11 | 11/6/2015 | The purpose of Part D of the Initial Study Report for Study 9.11 is to report on any additional implantation of the Study Plan from June 2014 to the end of the 2014 calendar year. | [ISR Part D for Study 9.11](http://www.susitna-watanahydro.org/wp-content/uploads/2015/11/09.11_PASS_ISR_PartD.pdf) |
| Response to Comments on the Initial Study Report for Study 9.11, Section 2.6.7 | 10/24/2016 | This document contains AEA’s responses to agencies’ comments and study modification requests in regards to their review of the ISR. | [AEA ISR Comment Response for Study 9.11, Section 2.6.7](http://www.susitna-watanahydro.org/wp-content/uploads/2016/11/ISR_Response_OCT_2016.pdf) |
| Confidential Strategy Memorandum for Study 9.11: Considerations of Feasibility Alternatives as Possible Future Study Modifications | 12/2016 Draft | This internal AEA briefing document, this memorandum summarizes fish passage issues based on data compiled during 2013 and 2014 study years, including: key biological issues, criteria developed to date, current project design development status as relevant to fish passage feasibility including information on operational scenarios, offers information on feasible fish passage alternatives and operational needs, and key information needs remaining when the study was suspended. | [Fish Passage Confidential Strategy Memorandum\_Internal Review Draft](https://www.suhydro.org/Fish/Study%209.11%20Fish%20Passage/Fish%20Passage%20Confidential%20Strategy%20Memorandum/Fish%20Passage%20Confidential%20Strategy%20Memorandum_Internal%20Review%20Draft.docx) |