

Skagit River Feasibility Report Alternative Analysis														
Mitigation costs are not complete for Alternative 3 and 4														
Alternative	Description	HTW rank 1=best	Arch rank 1=best	Construction Cost(million)	Mitigation Cost(million)	Real Estate Cost(million)	Plan, Engr & Design+Constr use 10%	Total Cost(million)	County Share Cost(million)	Riparian Habitat Acres	Saltwater Marsh Acres total/planted	Farmlands Lost, Acres	Remarks	
1	Swinomish Diversion	3	3	141	24	42	17	224	78	300	850/200	2430	Eliminated 7 May because alter 1 is too similar to alter 7. Alter 7 is favored of the two by Sponsor.	
2	Small Swinomish Diversion with Setbacks	4	5	133	30	48	16	227	79	620	850/200	1870		
3	Setback Levees with Selected Overtopping 1/	not ranked	2	52	9	49	10	120	42			800		
4	Setback Levees with with Overtopping	not ranked	3	49	9	52	10	120	42			900	Alter 4 does not protect critical transportation routes during emergencies.	
5	Setback Levees	5	4	146	39	86	19	290	108	570		850	Alter 5 requires extensive restoration of a closed dump site DS of the Division Street Bridge. 6/ Restoration would be 100% Sponsor Share. Routine action would be avoidance of site.	
6	Samish Diversion	1	1	158	9	39	17	223	78	300	420/100	3190	Alter 6 may have a jeopardy call because of the mixing of two fish, from Samish and Skagit. 7/	
7	Upper Swinomish Diversion 5/	2	3	135	24	46	16	221	77	300	640/200	2030		
8	Do nothing	not ranked	not ranked	no cost	no cost	no cost								
ALTERNATIVES BELOW ARE ELIMINATED FROM DETAILED EVALUATION, SEE FOOT NOTES														
9	Dredging 2/	not ranked	not ranked	no cost	no cost	no cost								
10	Increased Storage Existing Projects 3/	not ranked	not ranked	no cost	no cost	no cost								
11	Increased Storage New Project 4/	not ranked	not ranked	no cost	no cost	no cost							Alter 1 was eliminated 7 May because alter 1 is too similar to alter 7. Alter 7 is favored of the two by the Sponsor.	
1/ Interstate 5 and Highway 99 are protected from 100 year flooding event.														
2/ Initial costs and maintance costs are very high.														
3/ Amount of storage at Upper Baker and Ross Reservoirs has already been optimized.														
4/ There is no site available for a new storage dam. The upstream rivers are in a designated wild and scenic area.														
5/ Additional benefit of a Diversion channel might include the possible protection from a volcanic lahar.														
6/ Based on the estimated size of the Land fill, cleanup or stabilization could range between \$500,000 to \$10 million. Land fill characterization is estimated at \$200,000. Avoida														
7/ Alter 6 may have a jeopardy call because of discussions with NMFS on ___ May.														
Zoning is required when flood plain is protected from the 100 year flood, thus the potential for induced development is stopped.														
There is verble communication from the County that the overtopping with ring dikes is probably politically unbuildable.														