

Document Overview/Description							
A. These are projects that are proposed to be removed from the Chehalis River Basin Flood Authority Project Matrix.							
B.							
C. Source							
1 CRBFA Project List May 2011.							
2 New Projects Proposed by Flood Authority Jurisdictions (11/22/2010).							
3 Confederated Tribes of the Chehalis Reservation CFHMP (March 17, 2009).							
4 Chehalis River Basin Draft Comprehensive Flood Management Plan (June 2010).							
5 Centralia Comprehensive Flood Management and Natural Hazards Mitigation							
6 Thurston County Annual Progress Report - Implementing Flood Hazard							
7 City of Aberdeen Public Works Master Project List (January 2011).							
8 ACOE Mitigation Projects in Chehalis Basin.							
9 Grays Harbor County Draft Hazard Mitigation Plan 2001.							
10 City of Chehalis - Bob Nacht.							
11 Lewis County Comprehensive Flood Hazard Management Plan.							
12 Grays Harbor County Draft Hazard Mitigation Plan - Lee Napier.							
13 Description of Potential Enhancement Projects in Upper Chehalis Watershed							
14 Chehalis Basin Watershed Management Plan							
15 Chehalis Basin Partnership - Multi-Purpose Water Storage Assessment							
Current	Project	Structural / Non-Structural	Location	Source	WRIA	Note	

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FLOODPLAIN PROTECTION							
1	Install four three-sided structures in the northerly approach to the Sickman-Ford bridge	Structural	Oakville	2	22	Remove - Repetitive	
2	Regional Stormwater Detention Facilities	Structural	Lewis County and Centralia	5,11	23	Remove - Repetitive	
3	Port of Centralia/City of Centralia Partnership	Structural	Chehalis River	5	23	Remove - completed	
4	Lewis County PUD Upstream Storage	Structural	Basin-wide	4	22-23	Remove - repetitive	
5	Regional Flood Detention Facilities	Structural	Basin-wide	5,11	22-23	Remove - Repetitive	
6	Wastewater outfall protection	Structural	Basin-wide	1,4	23-24	Remove - not identifiable	

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REDUCTION OF DAMAGE TO EXISTING STRUCTURES							
7	Lincoln Creek floodplain purchase	Non-structural	Lincoln Creek Road area in Lewis County	1,4	23	Remove - Lewis County does not have this as a priority	
8	Debris removal after a flood	Structural	Basin-wide	1,4	22-23	Remove - EMS will conduct as a matter of course	
9	Evaluate or demolish homes subject to flood	Structural		3	22-23	Remove - Repetitive	
10	Evaluate or demolish homes subject to flood inundation	Structural	Reservation	3	22-23	2 Structures completely removed. Completed.	
11	Raise elevation of Moon Road/East 188 th Roadway	Structural	Thurston County	1,4	23	Will not be done - Anderson Rd built at an elevation that allows access to Chehalis Tribes' reservation Re: Mark Swarthout	

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BANK STABILIZATION							
12	West Satsop River Bank Restoration at Boat Launch	Structural	Grays Harbor County	9	22	Remove - has been completed	
13	Develop a technical assistance program for bank stabilization and/or debris removal	Non-structural	Lewis County	2	22-23	Project is currently being conducted and is ongoing.	
14	Bank stabilization / Biostabilization	Structural	Basin-wide	1,4	22-23	Remove - Repetitive	
15	Independence Road bank protection	Structural	Thurston County	1,4	23	Remove - Repetitive	
CONVEYANCE CAPACITY							
16	River Miles 20 to 79 - Reconnect and restore	Structural	Chehalis Mainstem	13	24	Remove - Repetitive	
17	Salzer Creek - Backwater control	Structural	Newaukum Management	13	24	Remove - repetitive	

Current	Project	Structural / Non-Structural	Location	Source	WRIA	Note
PLANNING/IMPLEMENTING AND DATA COLLECTION						
18	Cumulative downstream flood impact analysis	Non-structural	Lower basin	1,4	22	Remove -in progress
19	Develop preliminary master plan	Non-structural	Aberdeen	7	22	Received comments from Larry Bledsoe - Remove
20	Begin phased implementation	Non-structural	Aberdeen	7	22	Jim to check - Received comments from Larry Bledsoe - Remove
21	Evaluate flooding impacts	Non-structural	Aberdeen	7	22	Jim to check - Received comments from Larry Bledsoe - Remove
22	Chehalis Basin Project	Structural	Aberdeen	7	22	Jim to check - Received comments from Larry Bledsoe - Remove
23	Continue inter-jurisdictional coordination	Non-structural	Grays Harbor County	9	22	Remove - too broad
24	Use new design, construction, and maintenance standards	Non-structural	Grays Harbor County	9	22	Remove - too broad
25	Develop floodplain conservation easement program	Non-structural	Grays Harbor County	9	22	Remove - Repetitive

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26	Independence Road Bank Realignment Feasibility Study	Non-structural	Thurston County	1,4	23	Completed re: Mark Swarthout	
27	Lower-basin Hydraulic Model	Non-structural	Upper-basin	4	23	In Progress -	
28	Augment Chehalis Tribe Flood Plan with 2-, 5-, and 10-year recurrence interval maps	Non-structural	Chehalis Reservation	1,4	23	Remove - completed	
29	Update Hazards Data Sets/Maps, Identify Data Gaps and Collect Missing Data Sets	Non-structural	Lewis County	11	23	Ron to check - Received comments from Bob Johnson - Take off list	
30	Channel migration analysis	Non-structural	City of Chehalis to Grays Harbor County	1,4	22-23	Remove - Repetitive	
31	Remap floodplains	Non-structural	Basin-wide	1,4	22-23	Remove - Repetitive	
32	Conduct studies needed to design proposed mitigation strategies	Non-structural	Basin-wide	1,4	22-23	Remove - covered under Enhancement projects	
33	Investigate conditions near Wickett levee	Non-structural	Chehalis Reservation	1,4	22-23	Remove - completed - Terry ****	
34	Hydraulic model	Non-structural	Basin-wide	1,4	22-23	In progress - however there may be other locations that would require modeling - Remove	
35	Monitoring program on channel conditions	Non-structural	Basin-wide	1,4	22-23	Remove - Repetitive	

Current	Project	Structural / Non-Structural	Location	Source	WRIA	Note	
36	Study of impact of recent development of trucking and warehouse facilities	Non-structural	Basin-wide	1,4	22-23	Remove - completed	
37	Seamless LiDAR	Non-structural	Chehalis mainstem and major tributaries	4	22-23	Remove - ongoing	
38	Coordinated Study (data on the Twin Cities Project)	Non-structural	Basin-wide	4	22-23	Remove - not presently applicable	
39	Study the surface water and runoff impact of recent large trucking and warehouse facilities built in the Basin.	Non-structural	Public Comment	2	22-23	Remove - completed	
40	Study groundwater/surface water interaction	Non-structural	Basin-wide	2	22-23	Remove - Repetitive	
41	Study impacts and feasibility of upstream storage on flood elevations and summer low flows.	Non-structural	Lewis County PUD	2	22-23	Remove - in progress	
42	A decision support tool for watershed planning	Non-structural		2	22-23	Remove - completed	
43	Forest Conservation Study	Structural	Basin-wide	15	22,23	Remove - completed	
44	Map the channel migration zones for all rivers in the region and the extent of high quality riparian habitat.	Non-structural	Thurston County	6	23	Repetitive - See also 134	

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45	Evaluate sediment management	Non-structural	Basin-wide	1,4	22-23	Repetitive - See also 189	
46	Study of fill adjacent to Harris Creek to determine if it should be removed	Non-structural	Harris Creek, Chehalis Reservation	1,4	23	Terry to check with Mark White Project unknown. Remove per Mark White.	
47	Revise Thurston County's Comprehensive Flood Hazard Management Plan	Non-structural	Thurston County	2	22	Remove - completed Greg - check with Mark - Hired Tetra Tech to complete CFHMP	

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EDUCATION AND PUBLIC INFORMATION							
48	Provide on-going public education regarding best management practice issues, flood hazard mitigation, water quality, stormwater	Non-structural	Centralia	2	22-23	See also 14, 90, 152	
49	Provide educational materials on flood hazard management	Non-structural	Grays Harbor County	9	22	Repetitive - See also 90, 152, 171	
50	Establish a Regional Flood Awareness Week	Non-structural	Basin-wide	1,4	22-23	Remove - in progress	
51	Public Information on Beaver Reintroduction	Structural	Basin-wide	15	22,23	Remove - not presently applicable	
52	Join the NFIP Community Rating System	Structural	Basin-wide	1,4	22-23	Moved from Reduction of Damage Remove - Repetitive	

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EMERGENCY RESPONSE AND PREPARDNESS							
53	Flood Hazard Warning Policies	Non-structural	Grays Harbor County	1,4	22	Remove - Repetitive	
54	Manage Wynoochee dam for flood control	Non-structural	Wynoochee dam	1,4	22	Remove - USACE responsibility	
55	Standby power system	Non-structural	Aberdeen	7	22	Received comments from Larry Bledsoe - Remove	
56	Improve flood monitoring system	Non-structural	Grays Harbor County	9	22	Remove - completed	
57	Acquire generator for City Hall	Structural	Montesano	1,4	22	Greg will check with Vickie - Larry Bledsoe - generators have been acquired	
58	Improve flood notification and response program	Non-structural	Bucoda	1,4	23	Remove - completed	
59	Manage Skookumchuck dam for flood control	Non-structural	Skookumchuck dam	1,4	23	Remove - completed	
60	Implement Comprehensive Emergency Management Plan	Non-structural		3	23	Remove - completed	
61	Public Assistance - Flood Response	Non-structural	Lewis County	11	23	Remove - on going	
62	Headwaters Warning and Flood Alleviation	Non-structural	Lewis County	11	23	Remove - covered by other projects	
63	Acquire facilities and equipment	Structural		3	23	Remove - too broad	

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64	Evaluate opportunities for flood warning systems	Non-structural	Basin-wide	1,3,4	22-23	Remove - completed	
65	Develop and maintain a specific flood warning program	Non-structural	Basin-wide	1,4	22-23	Remove - completed	
66	Early Warning Program	Non-structural	Basin-wide	4	22-23	Remove - completed	
67	Develop a southeast flood detour plan for the Thurston County Comprehensive Emergency Management Plan	Non-structural	Thurston County	6	23	Remove Ask Mark S. - This project is in progress and the draft is out for review.	

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POTENTIAL FLOOD PROJECTS WITH ECOLOGICAL OPPORTUNITIES						
68	Bank regrade, low bench, and riparian revegetation in lower 10 miles of Newaukum	Structural		8	23	Remove - Repetitive
69	SR 6 Oxbow Restoration	Structural		8	23	Remove - Repetitive
70	Horseshoe Lake Oxbow Restoration	Structural		8	23	Remove - Repetitive
71	Pheasant Farm Fords Prairie Restoration	Structural		8	23	Remove - Repetitive
72	Salzer Creek from Mouth to Fairgrounds Restoration	Structural		8	23	Remove - Repetitive
73	Sewage Treatment Plant near Dillenbaugh Creek demolition	Structural		8	23	Remove - Repetitive
74	Newaukum Valley Golf Course enhancements	Structural		8	23	Remove - Repetitive
75	North Fork Newaukum riparian and floodplain restoration	Structural		8	23	Remove - Repetitive
76	Skookumchuck River upstream of river mile 10 wetlands, side channels, and floodplain restoration	Structural		8	23	Remove - Repetitive

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77	Mainstem Chehalis downstream of Ground Mound Enhancement	Structural		8	23	Remove - Repetitive	
78	Install large-diameter culverts beneath State Road at Harris Creek	Structural	Grays Harbor County	3	22	Remove - in progress	
79	Sickman-Ford Bridge culvert	Structural	Oakville	1,4	23	Remove - Repetitive	
80	Replace the existing culvert at Harris Creek under State Street with a three-sided structure	Structural	Oakville	2	22-23	Remove - in progress	
81	Harris Creek fish enhancement	Structural	Oakville	1,4	23	Completed	
82	Tilley Road culvert replacement	Structural	Thurston County	1,4	23	Preliminary design work completed and working internally to find funding Re: Mark Swarthout	
83	Ecosystem Services	Non-structural	Basin-wide	4	22-23	Remove - too broad	