

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

Hold regular meetings of OBCWD Advisory Committee. Include all entities involved in Oakland Bay restoration projects	Regular meeting date	MCPH, all partners	Hold at least 4 quarterly meetings per year	On-going	Coordination of Action Plan Strategy	All MCPH- 09 fund, MCD- EPA WEI & DOE ORAP grants Business - Taylor \$1000 13200 meeting and Matrix- MCPH, DOH \$3500
Update OBCWD Advisory Committee on grant work related to APS	Each agency or group reports APS work to Advisory Committee Evaluate reports for alignment with public outreach goals & objectives & include relevant updates in public outreach	MCPH, MCD,WSU		Quarterly Quarterly	Clear communication between stakeholders	MCPH-09 fund MCPH included above
Provide quarterly reports and quarterly verbal update to OBCWD Advisory Committee on MCPH water quality & on-site activities within the boundaries of the district	MCPH water quality and on-site program staff develop the report & post online	MCPH		Quarterly	Timely updates on MCPH Environmental Health program activities	MCPH 09 fund MCPH included above

Objective 2: Identify District Boundaries, Oversight and Finance

Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	BOCC, all partners			Educational working group formed Other groups form on ad-hoc basis	
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<p>Invite key stakeholders that are not attending the Advisory Committee-meetings to provide input on issues that might affect them</p>	<p>Provide additional participant names to Stephanie/education working group for outreach. Part of establishing advisory group.</p> <p>Contact stakeholder, provide information</p> <p>Report feedback to the Advisory Committee</p>	<p>MCD, WSU & <u>MCPH</u></p>		<p>On-going</p>	<p>Input from all stakeholders -MCD: gather input from landowners during planning process and technical assistance visits & bring to meeting</p>	

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
<p>Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay</p> <p>Prioritize</p> <p>1) Implement communications plan and 09 backfill 2) Fund additional manure exchange program project work and pet waste project work</p>	<p>Hold periodic public outreach/update meetings or workshops/trainings</p>	<p>MCD, WSU, Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT</p>	<p>Quarterly, format based on WEI grant messaging research</p>	<p>On-going</p>	<p>Educate public about <u>water quality & the Advisory Committee process</u>. Outcome: community support, public comment & education. <u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage now online. Composting Workshop series- completed and available for future use <u>MCD Pet Waste: Dog Waste Program</u> COMPLETED 6 pet waste stations and signage installed at public places around the watershed. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD- Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>

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	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

<p>Freshwater sampling</p> <p>Prioritize</p> <p>Sampling and reporting, Shoreline PIC plus intensive investigations</p>	<p>SIT ambient sampling</p> <p>Mason County Pulic Health Pollution Identification and Correction Program (PIC)</p>	<p>SIT, MCPH, DOH</p>	<p>Semi-annual- review of number & location of samples taken by MCPH & SIT, semi-annual memo on trends in FC levels, # of hot spots ID'd & investigated w/ analysis & recommendations to MCPH. TAG meeting semi-annually.</p>	<p>On-going</p>	<p>Pollution Identification</p>	<p>MCPH 09 fund in obj 6, PPG-\$30,000</p> <p>SIT- EPA grant, DOH PIC program needs dedicated funding, part of countywide WQ program?</p>
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Marine sampling	Determine if non-point identification & remediation have improved marine water quality in Oakland Bay enough to re-open/keep open portions of Oakland Bay for shellfish harvesting	DOH, MCPH, Taylor, SIT	12 sample runs a year	Done	Systematic random sampling of stations; additional studies. The restricted area in the northern end of Oakland was reclassified to conditionally approved during the months of October through May. The area remains restricted during the months of June through September. The reclassification became final on 12/12/2009.	DOH, MCPH, Business - \$400, DOH \$17,500 MCPH- ? Zero
Investigate sediment as secondary source of bacterial pollution	Implement designed study Report to Advisory Committee	SIT, Shellfish industry		On-going 2011	Identify transport mechanisms that resuspend bacteria from sediment into the water column & possible remediation measures Report on the relationship of sediment & water column FC at DOH station 614 during the summer, & the effect of wind speed, wind direction, tidal action, & shellfish bed management activities	SIT, EPA SIT- WEI \$ 26,300

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Oakland Bay & tributaries combination water cleanup & implementation plan (TMDL)	<p>Draft clean up plan</p> <p>Public comment & outreach</p> <p>Final plan submitted to EPA</p>	<u>ECY</u>		<p>April 2011</p> <p>May 2011</p> <p>June 2011</p>	<p>A combination Water Quality Improvement Report (WQIR) & Water Quality Implementation Plan (WQIP). The appropriate sections of the APS will be included in this report.</p> <p>Public meeting & availability of draft report for public comment</p>	Funded <u>ECY</u> estimated staff cost \$5,000.
<p>Periodic nutrient budget assessment.</p> <p>Prioritize</p>	Regular research of feasibility & need for nitrogen/phosphorus removal	<u>SIT</u>		On-going		<u>PSP</u>
Oakland Bay Sediment Characterization Study	<p>Ecology is evaluating results of sediment investigation along with public comments and holding internal discussions about next steps for possible sediment cleanup.</p> <p>Ecology is working with Squaxin Island Tribe in regards to habitat planning effort for Shelton Harbor, to ensure cleanup is considered in habitat plans.</p>	<u>ECY</u>	Briefing to stakeholders	Decision June, 2011 (placeholder)	Presentation- done Ecology decision regarding approach to sediment cleanup.	<u>ECY</u> \$ 457,000 + \$50,000 in staff + unaccounted for amount from <u>PSP</u> for shellfish testing

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Investigate dioxin contamination of sediment and determine if clean-up is necessary		ECY		Ongoing		ECY
Develop an enhanced PIC program	1 grant application to DOH as EPA's lead organization for pathogens	MC, MCD, SIT, WSU, UW, etc.	Funding of 1 grant application	Spring 2011	Pollution Remediation	EPA via DOH
Develop a plan for estuary restoration in Shelton Harbor	Landowner's work group	SIT, Simpson, COS, POS, Manke	1 plan for implementation	2012	Improved estuary conditions	EPA WEI for Oakland Bay; EPA WMA for Goldsborough
1 grant application to DOE as EPA's lead organization for nutrients & toxics	SIT, PSI, WSU, UW, etc.	Funding of 1 grant application	Spring 2011	Study of nutrient trends in Oakland Bay	EPA via DOE	

Objective 5: Identify and Remediate Agricultural Sources

Identify all sites with livestock & poultry	Update existing inventory to identify number of parcels with livestock or poultry	MCD	The last of 3 updates w/ inventory & GIS map revision as needed	Ongoing	Continually updated	
Contact all livestock & poultry operations	Targeted mailing	MCD	Direct mailing twice yearly	On-going	Met	

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Public meetings		Livestock and native plant workshops completed & on-going			
<p>Develop conservation plans for farmers</p> <p>Prioritize</p> <p>6 inch pixel analysis, farm inventory, windshield survey, conservation plans. Countywide ?</p>	<p>Design BMP's</p> <p>Implement BMP's</p> <p>Quarterly reporting of results</p>	<p><u>MCD</u></p>		<p>On-going</p> <p>Through 9/12</p>	<p># BMP's exceeded; 25 out of 40 plans completed or in progress with an additional 15 to be completed by September 2011.</p> <p>2008: 49 BMPs implemented. 2009: 42 BMPs implemented.</p>	<p>Overlapping grants in the watershed</p> <p>MCD + estimate of individual contribution</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Anaerobic Digester construction	Construct facility at Eels Hill transfer station	MCD	Collect & process organic wastes	On-going		Reduced funding sources
Respond to animal feeding operations or pasture based water quality complaints. (ECY/ Ag. Complaint line 360-407-6300)	<p>Coordination between ECY & WSDA. WSDA will work with dairies, all other livestock operations are ECY jurisdiction.</p> <p>Referral to MCD if there is no immediate impact or potential for impact to waters of the state</p> <p>State enforcement action in cases with an immediate impact or potential for impact to waters of the state.</p>	ECY, WSDA, MCD	<p>Timeline & policy established as a PM for ECY? (Ag. has 3 day response policy) Idea, also possible to get a monthly report from ECY; # complaints, # follow ups, # informal action, # formal actions for the area</p> <p>MCD will respond to ECY, WSDA referrals within 48 hrs of receipt of agency notice or landowner request.</p>	<p>On-going</p> <p>On-going</p> <p>Schedule for action depends on the issue</p>	<p>Identify & respond to water quality risks. ECY response as needed.</p> <p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p> <p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p>	<p>Agency operating budget</p> <p>ECY, MCD- estimate for 2009</p> <p>MCD- estimate for 2009</p>

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Objective 6: Identify and Remediate OSS Sources

Parcel Research	<p>Create GIS layer</p> <p>Make GIS layer searchable by stream, shoreline or upland designation</p>	MCPH	Inventory of all closure area parcels in O & M database, searchable by stream, shoreline or upland designation	<p>Done</p> <p>Done</p>	<p>O & M database can be used to determine complaints, and target areas for investigative work, education or other outreach</p> <p>Accuracy is being improved as errors are found and corrected.</p>	MCPH Environmental Health program budget
Scan OSS records- first priority shoreline and stream parcels (and any dense development in proximity)	<p>Supply match for scanning purchase.</p> <p>Scan</p>	MCPH		<p>Done</p> <p>Ongoing 2010 - ?</p>	<p>Equipment Purchased</p> <p>Scanning is complete on 70% of selected parcels (Selected parcels were shoreline, Shorecrest, TimberLakes, Lake Limerick and Emerald Lake) Additional parcels will be added as staff and money allows. OSS design records available online- timeline undetermined, will happen when enough parcels have added that the public will be able to use it for the majority of records.</p>	<p>MCPH- 09 fund- \$ 12,000</p> <p>MCPH- 09 fund \$56,045</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Update Carmody with type, age, records and < 100 ft to surface water			Ongoing, part of scanning	Information about system type, age, records and < or > to surface water is tracked electronically and easily displayed using GIS	
Tracking OSS complaints and repairs	Complaint and repair fields added to permit tracking database	<u>MCPH</u>	Monthly report to DOH and Oakland Bay Advisory Committee	On-going	Countywide public health standard tracked and info to Advisory Committee	<u>MCPH- 09 Fund \$ 12,000 + individual costs for septic repairs \$375,000/ yr</u>
<p>Priority PIC (see above also). Additional money for survey and dye trace</p> OSS Sanitary Surveys- marine shoreline, stream & upland	Conduct shoreline sampling. Segment streams with excessive fecal coliform levels & review septic records. Use results for voluntary compliance or code enforcement. Upland , investigation based on complaint or unsatisfactory maintenance report	<u>MCPH</u>	Sample 1/3 of Clean Water District shoreline yearly	On-going On-going On-going	Eliminate potential sources of onsite system fecal coliform Reports are done regularly	<u>MCPH-09 Fund \$ 50,100</u>
AmeriCorp volunteer	Secure grant, match funding	<u>MCPH</u> , and partners		more in future?	Additional administrative and natural resource work done	<u>Grant, 09 money for match- \$ 5000</u>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Train in natural resource work and administrative assistance work Work independently in variety of projects					
Dye tracing as required by sanitary survey results, complaint investigation results or unsatisfactory maintenance reports	Dye traces will be prioritized according to department policy for sanitary surveys & complaints. # depends on number of sites identified	MCPH	100% follow up	On-going Dec-June	OSS will be confirmed or eliminated as failing dye test.	MCPH- 09 fund \$9500
Regular O & M notification, monitoring, recording & follow-up for all OSS	Regular notification Record responses in O & M database Send notices to systems to correct maintenance problems.	MCPH	Record monthly as received	On-going On-going On-going	Two mail-outs last year, next mail-out planned for April to overdue and systems with unsatisfactory O & M report Maintenance activities recorded, New fee added for O & M providers to fund data entry for reports the providers send to county. Follow-up provided.	MCPH OSS program funding \$ 10680 MCPH- individual costs for O & M MCPH- individual costs for minor repairs \$115,320

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Upgrade components of existing OSS	<p>Obtain funding for 100 systems in the Oakland Bay area to upgrades that will make O & M easier (risers/ effluent filters)</p> <p>Promote septic system upgrades to public until 100 upgrades funded</p> <p>Work with local businesses to stock supplies needed & promotion of O & M improvements to public. (Sea Grant)- ?????</p>	MCPH, SIT, WSU	<p>Done</p> <p>Promotion on Oakland Bay website and in O & M classes- done</p>	<p>7/08- 7/12</p> <p>9/30/2011</p>	<p>OSS function better due to system improvements & ease of doing O & M</p> <p>49/100 done, 1 and 1/2 years to go</p>	<p>WEI grant, O9 fund \$ 825</p> <p>Individual cost share on risers</p> <p>\$24,847</p>

Objective 7: Identify and Remediate other sources

Goldsborough and Shelton stream sources identification	Identified through monthly stream sampling.	COS, MCPH	Report on Oakland Bay website	Done	<p>Testing to confirm that Shelton sewer basin work has controlled infiltration/exfiltration. Identification of other sources</p> <p>Reduce stream pollution</p>	09 Fund in samples
Shelton WWTP source reduction is additional treatment	<p>Reduce infiltration /inflow</p> <p>Upgrade treatment plant</p>	COS	<p>Sewer line replacement</p> <p>Complete construction of plant upgrade</p>	<p>On-going</p> <p>2010-2012</p>		COS

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
<p>Pet waste control strategy</p> <p>Prioritize fund waste pick-up, change city ordinance to allow dogs in parks. Make and install additional pet waste stations</p>	<p>Research- regulatory needs, implementation needs and enforcement needs and funding possibilities</p> <p>Propose plans to stakeholders</p>	<p>Sea Grant, COS, MCPH,DCD <u>MCD</u></p>	<p>Pet Waste unit taught at Kids' day at Oysterfest 2010 by WSG staff. Pet Waste discussed at all nonpoint pollution workshops taught by WSG, pet waste highlighted at 2010 Oakland Bay Beach Walk and Seafood Celebration.</p>		<p>Increased convenience for pet owners. MCD Pet Waste: -6 stations installed inthe watershed walong with signage and community sponsors-</p> <p>Ability to enforce pet waste clean up</p>	<p>COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion. Kids' day at Oysterfest funded by Washington Sea Grant and Skookum Rotary, Oakland Bay Beach Walk and seafood celebration funded by SIT WEI grant, other workshops underfunded at this time.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Fund/ implement Management strategy for Shelton Creek basin (MCPH will suggest to City of Shelton)				Improved public response Report provided to COS/MC Increased compliance with pet waste disposal regulations	
Research using mycoremediation to reduce fecal coliform	Set up experimental apparatus to assess mycofiltration effectiveness with a controlled fecal source at Allyn WWTP. Write Quality Assurance Project Plan (QAPP). Collect water samples and test for fecal coliform and klebsiella bacteria. Adaptively manage process to maximize effectiveness.	MCPW, MCPH, MCUWM, MCD	SIT funding Statistical analysis of water quality results. Corrective actions as needed. Review/Adjust field sampling protocol to reduce opportunity for inconsistent treatment results. Develop sample analysis to test specifically for e-coli bacteria.	2011	Adding to database for evaluation On-going ending in 4/2011	SIT SIT?

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Additional LID demo project Prioritize	Construction of LID features	MCD				Grant MCD
Student Watershed Investigation and Monitoring (SWIM) Program	Student water quality monitoring program for grades 4-12	MCD	Student Data collection & analysis	present - 6/2012		

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Property acquisition into conservancy	Evaluate feasibility & approaches identify land and funding for acquisitions in the John Creek corridor Eagle Point	DCD, Capitol Land Trust, Cascade Land Conservancy, Port of Shelton, City of Shelton CLC CLC		On-going Underway		TBD, potential grant sources
Develop incentives for: (1) natural shoreline protection including reduction of existing hard armoring (2) shoreline riparian & other buffer enhancement with native plantings	Both CLC and CLT are working on additional protections along Goldborough Creek in partnership with the County Explore different approaches for providing homeowner incentives for natural shoreline, riparian & other buffer protection & enhancement. Research & identify potential funding sources & approaches	CLC, CLT PSP, DCD, MCD	MCD will hold at least 2 native plant workshops annually	On-going	MCD held 4 native plant workshops MCD: submitted Centennial Grant Application 12/09 to expand planting restoration programs.	MCD Centennial Grant through 4/2010

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	<p>Develop a plan for implementation</p> <p>Implement incentives</p> <p>Note: MCD can provide technical assistance to property owners</p>		<p>MCD will prepare & distribute a brochure/mailer for shoreline/stream side landowners</p> <p>MCD will prepare conservation plans focused on restoration</p>		<p>MCD completed 2 brochures on native plants for shoreline/streamside landowners, which are distributed regularly. A direct mailing was sent to 1,264 streamside landowners in the watershed Jan 2010.</p> <p>MCD: 26 restoration planting plans have been completed in the watershed since 2008; project implementation is in process. Over 50 BMPs have been implemented to restore riparian health.</p>	<p>MCD Centennial Grant through 4/2010</p> <p>MCD + estimated individual contribution</p> <p>MCD - same as above (right?) Centennial Grant through 4/2010</p>
Respond to water quality complaints that involve land uses in critical areas	Investigate all WQ complaints in critical areas within 2 working days of referral	DCD, MCD	MCD will respond to DCD referrals within 48 hrs of receipt of agency notice or landowner request.	On-going	Timely investigation of land use activities Since 2007 MCD has assisted 11 referrals from Mason County who live within the Oakland Bay watershed, resulting in 1 conservation plan and 6 planting restoration projects.	DCD- investigation (MCD cost reflected in plans developed)

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Formation of Surface and Stormwater Management District Prioritize interim gap fund	Memorandum of Understanding for roles & responsibilities Establish Surface and Stormwater Management District boundaries Establish Surface and Stormwater Management District funding	MCUWM, MCPW, MCPH, WSU, MCD, DCD		June 2009 Dec 2009 2011	Understanding of each agency's or dept. role & responsibilities within the Surface and Stormwater Management District BOCC adoption of Surface and Stormwater Management District boundaries Stable funding source established	MCUWM Stormwater Implementation Grant & MC matching funds
Updated Oakland Bay stormwater regulations	Develop stormwater regulations for Oakland Bay Present to BOCC Adopt regulations	MCUWM	Comprehensive plan	On-going Dec-09	Oakland Bay stormwater regulations meet the MC Stormwater Ordinance #81-08 adopted 6/17/08	MCUWM
Within the City of Shelton Critical Areas Ordinance changes to improve the function of Goldsborough and Shelton Creek		COS				COS
Implement NPDES 2 requirements	COS is working to be proactive & implement policy changes prior to being required to implement NPDES Phase II	COS			Improved stormwater control	COS
Countywide stormwater ordinance to include LID standards	Explore how reduced impervious surface provisions could be incorporated into ordinances	DCD, COS	Limits development	Jul-08	Less runoff, better stormwater treatment, more vegetative cover	DCD, COS

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	Implement ordinances		Implement began December 2008	Dec-08		
Evaluate the need for special overlay protection as part of SMP update.	Using land tools such as carrying capacity & performance standards to assess land use activities & vegetative cover removal within the closure area Implement policy that adequately protects closure area	<u>DCD</u>	Tools ID'd by December Evaluation complete & recommendations to BOCC	7/30/09	Improved land use practices	DCD, COS

Objective 9: Key Enforcement Elements (Note: Enforcement tasks may be found in other parts of this table. These tasks have been given a separate objective because they are considered critical to the success of the Closure Response Plan.

Nonpoint ordinance & stormwater enforcement Prioritize	Project research & scoping; EH, DCD, PW, MCUWM, discuss how inclusive of nonpoint sources ordinance should be & if ordinance is to be developed as part of the Mason County Comprehensive Plan.	MCPH, DCD, MCPW, MCUWM, BOCC	Set up scoping meeting (Vicki) for NP ordinance; Barb, Charlie, Debbie, Emmett		Provide enforcement options	Agency budget
Update the MCPH Enforcement Policy & Procedures	Review	<u>MCPH</u> , BOCC		2010	Policy & Procedures aligned with Oakland Bay Action Plan	MCPH- \$0

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	Provide recommendations to BOH Implementation					
Review the Oakland Bay Action Plan to ensure consistency with the Administrative Plan required under RCW 70.118.030	Review after Action Plan is approved by land use attorney	MCPA	Consistency between Action Plan Administrative Search Warrant requirements.		Oakland Bay Action Plan provides for part of Administrative Plan requirements	MCPH- in objective 1

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report	on-going	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
Testing to determine if goals are being reached			Annual review by DOH	Met		ECY, DOH, SIT, MCPH- costs reflected in separate sampling tasks elsewhere
Review & revise APS yearly		MCPH				All

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LIST OF ACRONYMS

APS= Oakland Bay Action Plan Strategy
 BMP= Best Management Practices

BOCC = Mason County Board of County Commissioners
 COS= City of Shelton
 CLC= Cascade Land Conservancy
 CLT= Capitol Land Trust
 DCD = Mason County Department of Community Development
 DOH = Washington Department of Health
 ECY = Washington Department of Ecology
 EH= Mason County Public Health Environmental Health Program

EPA = United States Environmental Protection Agency
 GIS= Geographic Information System
 MCD = Mason Conservation District
 MCP= Mason County Prosecutor
 MCPH = Mason County Public Health
 MCPW = Mason County Public Works
 MCUWM= Mason County Utilities and Wastewater Management
 NP= Nonpoint
 PSP= Puget Sound Partnership
 OBCWD= Oakland Bay Clean Water District
 O & M = Operation and Maintenance
 OSS= On- site sewage system
 Sea Grant= Washington State Sea Grant, University of Washington

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SIT = Squaxin Island Tribe
 TMDL= Total Maximum Daily Load
 WEI= Western Estuaries Initiative
 WSDA = Washington State Department of Agriculture
 WSU = Washington State University Mason County Extension

1/3/2011 Oakland Bay Action Plan Strategy

Note: Lead Agencies underlined

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	Regular discussions to coordinate grants and to determine support for funding requests Develop recommendations for funding and bring to BOCC, regular discussion with BOCC	MCPH, all Advisory Committee members		On-going On-going		09 fund will fund 2 MCPH staff to work full time on Oakland Bay. 09 Funding ends Dec 2010. WSU, WEI and other grants that need coordinated will go here (get grant info-staffing and start and end dates to Stephanie for inclusion) 09 money will fund additional
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Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

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Invite area residential landowners to be part of the OBCWD Advisory Committee	Identify key stakeholder groups as part of public involvement strategy	Agencies in the Education Group lead to be assigned when advisory group membership is established		On-going	Input from all stakeholders	
Invite key stakeholders that are not attending the Advisory Committee-meetings to provide input on issues that might affect them	<p>Provide additional participant names to Stephanie/education working group for outreach. Part of establishing advisory group.</p> <p>Contact stakeholder, provide information</p> <p>Report feedback to the Advisory Committee</p>	MCD, WSU & <u>MCPH</u>		On-going	Input from all stakeholders - MCD: gather input from landowners during planning process ro technical assistance visits & bring to meeting	

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay	Hold periodic public outreach/update meetings or workshops/trainings	MCD, <u>WSU</u> , Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT	Quarterly, format based on WEI grant messaging research	On-going	<p><u>Educate public about water quality & the Advisory Committee process.</u> Outcome: community support, public comment & education. <u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. - Composting Workshop series under development. <u>MCD Pet Waste: Dog Waste Program</u> under</p>	<p>MCD, <u>WSU</u>, Sea Grant, MCPH (09 fund), <u>MCUWM</u>, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD-Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, <u>WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)</u>Ecology funding for Open House \$579.84.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Freshwater sampling	MCPH & SIT ambient & intensive sampling	SIT, MCPH, DOH	Quarterly review of number & location of samples taken by MCPH & SIT, quarterly fact sheet on trends in FC levels, # of hot spots ID'd & investigated w/ analysis & recommendations to MCPH	On-going	Pollution Identification	MCPH 09 fund in obj 6, SIT- \$30,000
						SIT- EPA grant, DOH

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Marine sampling	Determine if non-point identification & remediation have improved marine water quality in Oakland Bay enough to re-open/keep open portions of Oakland Bay for shellfish harvesting	<u>DOH</u> , MCPH, Taylor	Decrease sampling to 12 sample runs a year Sample small tribs at North to start summer of 2009	Done	Systematic random sampling of stations; additional studies. The Restricted area in the northern end of Oakland was reclassified to Conditionally Approved during the months of October through May. The area remains Restricted during the months of June through September. The reclassification became final on 12/12/2 14 marine water stations and 7 freshwater sampled during the summer months of 2008 and 2009	DOH, MCPH, Business - \$400, DOH \$17,500 MCPH- ? Zero

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Objective 6: Identify and Remediate OSS Sources

Parcel Research	<p>Create GIS layer</p> <p>Make GIS layer searchable by stream, shoreline or upland designation</p>	<u>MCPH</u>	Inventory of all closure area parcels in O & M database, searchable by stream, shoreline or upland designation	<p>Done</p> <p>Done</p>	<p>O & M database can be used to determine complaints, and target areas for investigative work, education or other outreach</p> <p>Accuracy is being improved as errors are found and corrected.</p>	<u>MCPH</u> Environmental Health program budget
Scan OSS records- first priority shoreline and stream parcels (and any dense development in proximity)	Supply match for scanning purchase.	<u>MCPH</u>		Done	Equipment Purchased	<u>MCPH- 09 fund- \$ 12,000</u>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Scan			Ongoing 2010 - ?	Scanning is complete on 70% of selected parcels (Selected parcels were shoreline, Shorecrest, TimberLakes, Lake Limerick and Emerald Lake) Additional parcels will be added as staff and money allows. OSS design records available online-timeline undetermined, will happen when enough parcels have added that the public will be able to use it for the majority of records.	MCPH- 09 fund \$56,045

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Update Carmody with type, age, records and < 100 ft to surface water			Ongoing, part of scanning	Information about system type, age, records and < or > to surface water is tracked electronically and easily displayed using GIS	
Tracking OSS complaints and repairs	complaint and repair fields added to permit tracking database	<u>MCPH</u>	Monthly report to DOH and Oakland Bay Advisory Committee	On-going	countywide public health standard tracked and info to Advisory Committee	<u>MCPH- 09 Fund \$ 12,000 + individual costs for septic repairs \$375,000/ yr</u>
OSS Sanitary Surveys- marine shoreline, stream & upland	<p>Conduct shoreline sampling.</p> <p>Segment streams with excessive fecal coliform levels & review septic records.</p> <p>Use results for voluntary compliance or code enforcement.</p> <p>Upland , investigation based on complaint or unsatisfactory maintenance report</p>	<u>MCPH</u>	Sample 1/3 of Clean Water District shoreline yearly	<p>On-going</p> <p>On-going</p> <p>On-going</p> <p>On-going</p>	Eliminate potential sources of onsite system fecal coliform	<u>MCPH-09 Fund \$ 50,100</u>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
AmeriCorp volunteer	<p>secure grant, match funding</p> <p>train in natural resource work and administrative assistance work</p> <p>work independently in variety of projects</p>	<u>MCPH</u> , and partners		<p>9/09 - 8/15/10</p> <p>On-going</p> <p>On-going</p>	Additional administrative and natural resource work done	Grant, 09 money for match- \$5000
Dye tracing as required by sanitary survey results, complaint investigation results or unsatisfactory maintenance reports	Dye traces will be prioritized according to department policy for sanitary surveys & complaints. # depends on number of sites identified	<u>MCPH</u>	100% follow up	On-going Dec-June	OSS will be confirmed or eliminated as failing dye test.	MCPH- 09 fund \$9500

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Regular O & M notification, monitoring, recording & follow-up for all OSS	<p>Regular notification</p> <p>Record responses in O & M database</p> <p>Send notices to systems to correct maintenance problems.</p>	<u>MCPH</u>	Record monthly as received	<p>On-going</p> <p>On-going</p> <p>On-going</p>	<p>2 mailouts last year, next mailout planned for April to overdue and systems with unsatisfactory O & M report</p> <p>Maintenance activities recorded, New fee added for O & M providers to fund data entry for reports the providers send to county.</p> <p>follow-up provided.</p>	<p>MCPH OSS program funding \$ 10680</p> <p>MCPH- individual costs for O & M</p> <p>MCPH- individual costs for minor repairs \$115,320</p>
Upgrade components of existing OSS	Obtain funding for 100 systems in the Oakland Bay area to upgrades that will make O & M easier (risers/ effluent filters)	<u>MCPH</u> , SIT, WSU	Done	7/08- 7/12	OSS function better due to system improvements & ease of doing O & M	WEI grant, O9 fund \$ 825

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	<p>Promote septic system upgrades to public until 100 upgrades funded</p> <p>Work with local businesses to stock supplies needed & promotion of O & M improvements to public. (Sea Grant)- ?????</p>		Promotion on Oakland Bay website and in O & M classes- done	9/30/2011	49/100 done, 1 and 1/2 years to go	individual cost share on risers \$24,847

Objective 7: Identify and Remediate other sources

Goldsborough and Shelton stream sources identification	Identified through monthly stream sampling.	COS, MCPH	report on Oakland Bay website	Done	<p>Testing to confirm that Shelton sewer basin work has controlled infiltration/exfiltration. Identification of other sources</p> <p>Reduce stream pollution</p>	09 Fund in samples
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Pet waste control strategy	<p>Research- regulatory needs, implementation needs and enforcement needs and funding possibilities</p> <p>Propose plans to stakeholders</p> <p>fund/ implement</p>	Sea Grant, COS, MCPH,DCD <u>MCD</u>			<p>Increased convenience for pet owners. MCD Pet Waste: Dog Waste Program under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be completed by June 11.</p> <p>Ability to enforce pet waste clean up</p> <p>Improved public response</p> <p>Report provided to COS/MC</p> <p>Increased compliance with pet waste disposal regulations</p>	<p>COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Research using mycoremediation to reduce fecal coliform	<p>test for Klebsiella-</p> <p>set up & test negative controls</p> <p>test for evidence of fungal growth</p> <p>Test sufficiently in wet season conditions. Test precip vs. dry efficacy.</p>	MCPW, MCPH, MCUWM, MCD	<p>SIT funding</p> <p>possible SIT funding testing ideas under development</p> <p>Review/Adjust field sampling protocol to reduce opportunity for inconsisten treatment results. Develop sample analysis to test specifically for e-coli bacteria.</p>	2009	adding to database for evaluation	<p>Funding needed, SIT funding</p> <p>SIT?</p>

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Objective 9: Key Enforcement Elements

(Note: Enforcement tasks may be found in other parts of this table. These tasks have been given a separate objective

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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because they are considered critical to the success of the Closure Response Plan.)

Nonpoint ordinance & stormwater enforcement	Project research & scoping; EH, DCD, PW, MCUWM, discuss how inclusive of nonpoint sources ordinance should be & if ordinance is to be developed as part of the Mason County Comprehensive Plan.	MCPH, DCD, MCPW, MCUWM, BOCC	Set up scoping meeting (Vicki) for NP ordinance; Barb, Charlie, Debbie, Emmett		Provide enforcement options	Agency budget
Update the MCPH Enforcement Policy & Procedures	Review Provide recommendations to BOH Implementation	MCPH, BOCC		2010	Policy & Procedures aligned with Oakland Bay Action Plan	MCPH- \$0

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD	on-going		All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
			Annual shellfish protection district report		The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	
Testing to determine if goals are being reached			Annual review by DOH	met		ECY, DOH, SIT, MCPH- costs reflected in separate sampling tasks elsewhere
Review & revise APS yearly		MCPH				All

LIST OF ACRONYMS

APS= Oakland Bay Action Plan Strategy
 BMP= Best Management Practices
 BOCC = Mason County Board of County Commissioners
 COS= City of Shelton
 CLC= Cascade Land Conservancy
 CLT= Capitol Land Trust

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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DCD = Mason County Department of Community Development

DOH = Washington Department of Health

ECY = Washington Department of Ecology

EH= Mason County Public Health Environmental Health Program

EPA = United States Environmental Protection Agency

GIS= Geographic Information System

MCD = Mason Conservation District

MCP= Mason County Prosecutor

MCPH = Mason County Public Health

MCPW = Mason County Public Works

MCUWM= Mason County Utilities and Wastewater Management

NP= Nonpoint

PSP= Puget Sound Partnership

OBCWD= Oakland Bay Clean Water District

O & M = Operation and Maintenance

OSS= On- site sewage system

Sea Grant= Washington State Sea Grant, University of Washington

SIT = Squaxin Island Tribe

TMDL= Total Maximum Daily Load

WEI= Western Estuaries Initiative

WSDA = Washington State Department of Agriculture

WSU = Washington State University Mason County Extension

WQ= Water Quality

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Note:

In the event any portion of this plan is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portions shall be deemed a separate provision of this plan and such designation shall not affect the validity of the remaining portions of this plan

1/3/2011 Oakland Bay Action Plan Strategy

Note: Lead Agencies underlined

Table 1 Oakland Bay Action Plan Strategy

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

Update OBCWD Advisory Committee on grant work related to APS	<p>Each agency or group reports APS work to Advisory Committee</p> <p>Evaluate reports for alignment with public outreach goals & objectives & include relevant updates in public outreach</p>	<u>MCPH</u> , MCD,WSU		<p>Quarterly</p> <p>Quarterly</p>	Clear communication between stakeholders	<p>MCPH-O9 fund</p> <p>MCPH included above</p>
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Objective 2: Identify District Boundaries, Oversight and Finance

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	<u>BOCC</u> , all partners			Educational working group formed	

Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

Invite key stakeholders that are not attending the Advisory Committee-meetings to provide input on issues that might affect them	<p>Provide additional participant names to Stephanie/education working group for outreach. Part of establishing advisory group.</p> <p>Contact stakeholder, provide information</p> <p>Report feedback to the Advisory Committee</p>	MCD, WSU & <u>MCPH</u>		On-going	Input from all stakeholders -MCD: gather input from landowners during planning process ro technical assistance visits & bring to meeting	

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay	Hold periodic public outreach/update meetings or workshops/trainings	MCD, <u>WSU</u> , Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT	Quarterly, format based on WEI grant messaging research	On-going	<p><u>Educate public about water quality & the Advisory Committee process.</u> Outcome: community support, public comment & education.</p> <p><u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. -Composting Workshop series under development.</p> <p><u>MCD Pet Waste: Dog Waste Program</u> under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be complete by June 11. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD-Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 5: Identify and Remediate Agricultural Sources

Identify all sites with livestock & poultry	Update existing inventory to identify number of parcels with livestock or poultry	<u>MCD</u>	The last of 3 updates w/ inventory & GIS map revision as needed	Dec-09	GIS map of inventory, MCD survey: in process - this is continually updated.	DOE ORAP Centennial Grant through 4/2010 <u>MCD</u>
Contact all livestock & poultry operations	Targeted mailing	<u>MCD</u>	Direct mailing twice yearly	On-going	Newsletters, grant program mailings; cost-share program information - Newsletter mailed summer 09, 2nd newsletter in Dec 09. Completed direct mailing Jan 2010 to 1264 streamside landowners advertising fencing and riparian planting project funding.	Centennial Grant through 4/2010, DOE ORAP Centennial Grant through 4/2010 <u>MCD</u>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Public meetings		Workshops planned		4 native plant workshops completed in 2009 (95 people reached).	Centennial Grant through 4/2010 MCD
Develop conservation plans for farmers	Design BMP's Implement BMP's	<u>MCD</u>		On-going	Best management practices that protect water quality 2008: 49 BMPs implemented. 2009:	Centennial Grant through 4/2010, Squaxin WEI grant through 9/2012, limited cost share and technical assistance are available through Conservation Commission MCD MCD + estimate of individual contribution

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Quarterly reporting of results			through 7/09	<p>5 Conservation Plans completed for landowners in Oakland Bay Watershed. 8 Agricultural BMPs were implemented (1 "heavy use area" winter confinement paddock, 1 manure composting structure, 2 Fencing/use exclusion projects, 2 Gutter Projects for agricultural buildings, 1 Drainage management project, 1 Pasture management program (rotational grazing). 15 land owners received other technical assistance. - Objectives Met & Reporting requirements met:</p> <p>2008 Summary: 13 Conservation Plans, 9 Restoration Planting Plans, 49 BMPs implemented.</p> <p>2009 Summary: 7 Conservation Plans, 17 Restoration Planting Plans, 44 BMPs implemented. (10</p>	<p>Centennial Grant through 4/2010. Squaxin WEI grant through 9/2012. Limited cost share and technical assistance are available through Conservation Commission. MCD + estimate of individual contribution</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Anaerobic Digester construction	<p>Construct facility at Eels Hill transfer station</p> <p>Working on permitting</p>	<u>MCD</u>	Collect & process organic wastes from baseline of 0; what amount of waste will be processed?	6/09	Make the Anaerobic Digester available as a waste reduction tool in the watershed	2.5 million in loans
Respond to animal feeding operations or pasture based water quality complaints. (ECY/ Ag. Complaint line 360-407-6300)	<p>Coordination between ECY & WSDA.WSDA will work with dairies, all other livestock operations are ECY jurisdiction.</p> <p>Referral to MCD if there is no immediate impact or potential for impact to waters of the state</p>	<u>ECY, WSDA, MCD</u>	<p>Timeline & policy established as a PM for ECY? (Ag.has 3 day response policy) Idea, also possible to get a monthly report from ECY; # complaints, # follow ups, # informal action, # formal actions for the area</p> <p>MCD will respond to ECY, WSDA referrals within 48 hrs of receipt of agency notice or landowner request.</p>	<p>On-going</p> <p>On-going</p>	<p>Identify & respond to water quality risks. ECY response as needed.</p> <p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p> <p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p>	<p>Agency operating budget</p> <p>ECY, MCD- estimate for 2009</p> <p>MCD- estimate for 2009</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	State enforcement action in cases with an immediate impact or potential for impact to waters of the state.			Schedule for action depends on the issue		

Objective 6: Identify and Remediate OSS Sources

Objective 7: Identify and Remediate other sources

Pet waste control strategy	Research- regulatory needs, implementation needs and enforcement needs and funding possibilities	Sea Grant, COS, MCPH,DCD <u>MCD</u>			Increased convenience for pet owners. MCD Pet Waste: Dog Waste Program under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be completed by June 11.	COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion
Research using mycoremediation to reduce fecal coliform	test for Klebsiella- set up & test negative controls test for evidence of fungal growth	MCPW, MCPH, MCUWM, MCD	SIT funding	2009	adding to database for evaluation	Funding needed, SIT funding

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Test sufficiently in wet season conditions. Test precip vs. dry efficacy.		possible SIT funding testing ideas under development Review/Adjust field sampling protocol to reduce opportunity for inconsisten treatment results. Develop sample analysis to test specifically for e-coli bacteria.			SIT?
Within the City of Shelton projects to improve the function of Goldsborough and Shelton Creek	Track data Turning Pointe project Riparian Planting project near Hwy 3 connected to mouth of Shelton Creek	COS, MCD		Done Done	LID Demostration Project with Pervious Concrete Pavement constructed 10/2008	COS, Squaxin WEI grant MCD- DOE SMDP Grant through 4/2011
Pioneer school LID demo project	construction of LID features	MCD		starts 11/09	Project needs replanting;plants were not watered over summers 2008/09; few survived.	Grant MCD
•Oakland Bay Park Property Riparian Restoration	partnership with PUD #3, Capitol Land Trust to develop & implement phased riparian restoration along Malaney Creek	MCD, PUD #3, CLT, MC Parks & Trails, WA Conservation Corps Crew		Phase 1 resoration complete; Phase 2 in process	Phase 2 site preparation complete; planting to take place with volunteers this spring.	MCD:PUD #3 funding; DOE ORAP Centennial Grant funding

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Oakland Bay Park Property Low Impact Development Projects	partnered with MC Parks & Trails to submit RCO grant for LID development at park	<u>MCD & MC Parks & Trails</u>		Complete	Grant awarded to MC Parks; MCD will design LID entry road, parking area, rain gardens etc. for implementation in summer 2011-2012	<u>MCD</u> : EPA WEI grant funding; MC Parks & Trails: RCO Land & Water Conservation Funding
Port of Shelton Oakland Bay Marina Rain Garden	Rain Garden installed to manage parking lot stormwater adjacent to Yacht Club	<u>MCD</u>		Complete	Rain Garden installed.	<u>MCD</u> NFWF Salmon Safe Marina Grant; EPA WEI grant funding

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Develop incentives for: (1) natural shoreline protection including reduction of existing hard armoring (2) shoreline riparian & other buffer enhancement with native plantings	Explore different approaches for providing homeowner incentives for natural shoreline, riparian & other buffer protection & enhancement.	<u>PSP</u> , DCD, MCD	MCD will hold at least 2 native plant workshops annually	On-going	MCD held 4 native plant workshops	<u>MCD</u> Centennial Grant through 4/2010
	Research & identify potential funding sources & approaches				MCD: submitted Centennial Grant Application 12/09 to expand planting restoration programs.	

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	<p>Develop a plan for implementation</p> <p>Implement incentives</p> <p>Note: MCD can provide technical assistance to property owners</p>		<p>MCD will prepare & distribute a brochure/mailer for shoreline/stream side landowners</p> <p>MCD will prepare conservation plans focused on restoration</p>		<p>MCD completed 2 brochures on native plants for shoreline/streamside landowners, which are distributed regularly. A direct mailing was sent to 1,264 streamside landowners in the watershed Jan 2010.</p> <p>MCD: 26 restoration planting plans have been completed in the watershed since 2008; project implementation is in process. Over 50 BMPs have been implemented to restore riparian health.</p>	<p>MCD Centennial Grant through 4/2010</p> <p>MCD + estimated individual contribution</p> <p>MCD - same as above (right?) Centennial Grant through 4/2010</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Respond to water quality complaints that involve land uses in critical areas	Investigate all WQ complaints in critical areas within 2 working days of referral	<u>DCD</u> , MCD	MCD will respond to DCD referrals within 48 hrs of receipt of agency notice or landowner request.	On-going	Timely investigation of land use activities Since 2007 MCD has assisted 11 referrals from Mason County who live within the Oakland Bay watershed, resulting in 1 conservation plan and 6 planting restoration projects.	<u>DCD- investigation</u> (MCD cost reflected in plans developed)
Small Parcel Stormwater Site Plan requirements	MCD can provide stormwater BMP technical assistance	<u>DCD</u> , MCD	MCD will work with DCD to inform the public of the new requirements	June 2009	MCD provided technical assistance on stormwater issues to 15 landowners.	<u>DCD , MCD + individual</u> Squaxin WEI grant through 9/2012; MC Stormwater Implementation Grant through 4/2011
Formation of Surface and Stormwater Management District	<p>Memorandum of Understanding for roles & responsibilities</p> <p>Establish Surface and Stormwater Management District boundaries</p> <p>Establish Surface and Stormwater Management District funding</p>	<u>MCUWM</u> , MCPW, MCPH, WSU, MCD, DCD		<p>June 2009</p> <p>Dec 2009</p> <p>2011</p>	<p>Understanding of each agency's or dept. role & responsibilities within the Surface and Stormwater Management District</p> <p>BOCC adoption of Surface and Stormwater Management District boundaries</p> <p>Stable funding source established</p>	<u>MCUWM</u> Stormwater Implementation Grant & MC matching funds

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra- agency funding)

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra- agency funding)
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DCD = Mason County Department of
Community Development
DOH = Washington Department of Health
ECY = Washington Department of Ecology
EH= Mason County Public Health
Environmental Health Program
EPA = United States Environmental
Protection Agency
GIS= Geographic Information System
MCD = Mason Conservation District
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MCPH = Mason County Public Health
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra- agency funding)
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WSU = Washington State University Mason
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1/3/2011 Oakland Bay Action Plan Strategy

Note: Lead Agencies underlined

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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

Hold regular meetings of OBCWD Advisory Committee. Include all entities involved in Oakland Bay restoration projects	Regular meeting date	<u>MCPH</u> , all partners	Hold at least 4 quarterly meetings per year	On-going	Coordination of Action Plan Strategy	All MCPH- 09 fund, MCD- EPA WEI & DOE ORAP grants Business - Taylor \$1000 13200 meeting and Matrix-MCPH, DOH \$3500
Update OBCWD Advisory Committee on grant work related to APS	Each agency or group reports APS work to Advisory Committee Evaluate reports for alignment with public outreach goals & objectives & include relevant updates in public outreach	<u>MCPH</u> , MCD,WSU		Quarterly Quarterly	Clear communication between stakeholders	MCPH-O9 fund MCPH included above

Objective 2: Identify District Boundaries, Oversight and Finance

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	BOCC, all partners			Educational working group formed Other groups form on ad-hoc basis	
	Develop recommendations for funding and bring to BOCC, regular discussion with BOCC	MCPH, all Advisory Committee members		On-going		

Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

Invite key stakeholders that are not attending the Advisory Committee-meetings to provide input on issues that might affect them	Provide additional participant names to Stephanie/education working group for outreach. Part of establishing advisory group. Contact stakeholder, provide information Report feedback to the Advisory Committee	MCD, WSU & MCPH		On-going	Input from all stakeholders -MCD: gather input from landowners during planning process ro technical assistance visits & bring to meeting	
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay	Hold periodic public outreach/update meetings or workshops/trainings	MCD, <u>WSU</u> , Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT	Quarterly, format based on WEI grant messaging research	On-going	<p><u>Educate public about water quality & the Advisory Committee process.</u> Outcome: community support, public comment & education.</p> <p><u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. -Composting Workshop series under development.</p> <p><u>MCD Pet Waste: Dog Waste Program</u> under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be complete by June 11. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD- Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- S29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Formation of Surface and Stormwater Management District	Memorandum of Understanding for roles & responsibilities	MCUWM, MCPW, MCPH, WSU, MCD, DCD		June 2009	Understanding of each agency's or dept. role & responsibilities within the Surface and Stormwater Management District	MCUWM Stormwater Implementation Grant & MC matching funds
	Establish Surface and Stormwater Management District boundaries			Dec 2009	BOCC adoption of Surface and Stormwater Management District boundaries	
	Establish Surface and Stormwater Management District funding			2011	Stable funding source established	

Objective 10: Program Evaluation

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund

LIST OF ACRONYMS

- APS= Oakland Bay Action Plan Strategy
- BMP= Best Management Practices
- BOCC = Mason County Board of County Commissioners
- COS= City of Shelton
- CLC= Cascade Land Conservancy
- CLT= Capitol Land Trust
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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1/3/2011 Oakland Bay Action Plan Strategy

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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

Hold regular meetings of OBCWD Advisory Committee. Include all entities involved in Oakland Bay restoration projects	Regular meeting date	<u>MCPH</u> , all partners	Hold at least 4 quarterly meetings per year	On-going	Coordination of Action Plan Strategy	All MCPH- 09 fund, MCD-EPA WEI & DOE ORAP grants Business - Taylor \$1000 13200 meeting and Matrix-MCPH, DOH \$3500
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Objective 2: Identify District Boundaries, Oversight and Finance

Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	<u>BOCC</u> , all partners			Educational working group formed	
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
					Other groups form on ad-hoc basis	
Develop integrated financial strategy	BOCC process. They are looking at options such as sales tax, Public Health money & private funding Regular discussions to coordinate grants and to determine support for funding requests	BOCC through budget & contributions from other agencies or entities		On-going On-going	Improved ability to obtain funding	Governmental funding as a surface & stormwater program 09 fund will fund 2 MCPH staff to work full time on Oakland Bay. 09 Funding ends Dec 2010. WSU, WEI and other grants that need coordinated will go here (get grant info- staffing and start and end dates to Stephanie for inclusion)

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD	on-going		All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
			Annual shellfish protection district report Annual review by DOH	met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	

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Objective 2: Identify District Boundaries, Oversight and Finance

White paper from Teri on funding sources		SeaGrant		Dec. 2010	White Paper	
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Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay	Hold periodic public outreach/update meetings or workshops/trainings	MCD, <u>WSU</u> , Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT	Quarterly, format based on WEI grant messaging research	On-going	<p>Educate public about <u>water quality & the Advisory Committee process</u>. Outcome: community support, public comment & education.</p> <p><u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. -Composting Workshop series under development.</p> <p><u>MCD Pet Waste: Dog Waste Program</u> under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be complete by June 11. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD- Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Establish Oakland Bay ORCA buoy	Contact PSP to follow up (initial response positive, will cost 20K to deploy & .5 FTE to maintain)	<u>ECY</u> , PSP, UW Congressman Norm Dicks		On-going	Long term water quality data for additional parameters	Federal Government <u>Unfunded at this point</u>
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Objective 6: Identify and Remediate OSS Sources

Pet waste control strategy	Research- regulatory needs, implementation needs and enforcement needs and funding possibilities	Sea Grant, COS, MCPH,DCD <u>MCD</u>			Increased convenience for pet owners. MCD Pet Waste: Dog Waste Program under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be completed by June 11.	<u>COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion</u>
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Propose plans to stakeholders fund/ implement				Ability to enforce pet waste clean up Improved public response	

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

<p>Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay</p>	<p>Hold periodic public outreach/update meetings or workshops/trainings</p> <p>Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.</p>	<p>MCD, <u>WSU</u>, Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT</p>	<p>Quarterly, format based on WEI grant messaging research</p>	<p>On-going</p> <p>On-going</p>	<p><u>Educate public about water quality & the Advisory Committee process.</u> Outcome: community support, public comment & education. <u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. -Composting Workshop series under development. <u>MCD Pet Waste: Dog Waste Program</u> under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be complete by June 11. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p> <p>Adding updates to website as available</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD-Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>
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Objective 7: Identify and Remediate other sources

Goldsborough and Shelton stream sources identification	Identified through monthly stream sampling.	COS, MCPH	report on Oakland Bay website	Done	Testing to confirm that Shelton sewer basin work has controlled infiltration/exfiltration. Identification of other sources Reduce stream pollution	09 Fund in samples
Shelton WWTP source reduction is additional treatment	Reduce infiltration /inflow Upgrade treatment plant	COS	Sewer line replacement Complete construction of plant upgrade	On-going 2010-2012		COS
Pet waste control strategy	Research- regulatory needs, implementation needs and enforcement needs and funding possibilities Propose plans to stakeholders	Sea Grant, COS, MCPH,DCD <u>MCD</u>			Increased convenience for pet owners. MCD Pet Waste: Dog Waste Program under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be completed by June 11. Ability to enforce pet waste clean up	COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion

	fund/ implement				Improved public response Report provided to COS/MC Increased compliance with pet waste disposal regulations	
Within the City of Shelton projects to improve the function of Goldsborough and Shelton Creek	Track data Turning Pointe project Riparian Planting project near Hwy 3 connected to mouth of Shelton Creek	<u>COS</u> , MCD		Done Done	LID Demonstration Project with Pervious Concrete Pavement constructed 10/2008	<u>COS</u> , Squaxin WEI grant <u>MCD</u> - DOE SMDP Grant through 4/2011

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Within the City of Shelton Critical Areas Ordinance changes to improve the function of Goldsborough and Shelton Creek		<u>COS</u>				<u>COS</u>
Implement NPDES 2 requirements	COS is working to be proactive & implement policy changes prior to being required to implement NPDES Phase II	<u>COS</u>			Improved stormwater control	<u>COS</u>

Countywide stormwater ordinance to include LID standards	Explore how reduced impervious surface provisions could be incorporated into ordinances Implement ordinances	DCD, COS	Limits development Implement began December 2008	Jul-08 Dec-08	Less runoff, better stormwater treatment, more vegetative cover	DCD, COS
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Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
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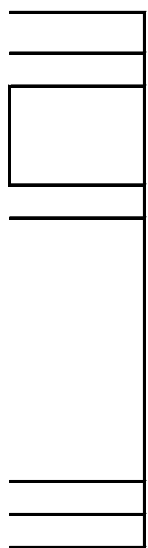
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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

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Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Marine sampling	Determine if non-point identification & remediation have improved marine water quality in Oakland Bay enough to re-open/keep open portions of Oakland Bay for shellfish harvesting	<u>DOH</u> , MCPH, Taylor	Decrease sampling to 12 sample runs a year Sample small tribs at North to start summer of 2009	Done	Systematic random sampling of stations; additional studies. The Restricted area in the northern end of Oakland was reclassified to Conditionally Approved during the months of October through May. The area remains Restricted during the months of June through September. The reclassification became final on 12/12/2 14 marine water stations and 7 freshwater sampled during the summer months of 2008 and 2009	DOH, MCPH, Business - \$400, DOH \$17,500 MCPH- ? Zero
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Investigate sediment as secondary source of bacterial pollution	Implement designed study Report to Advisory Committee	SIT, Shellfish industry		On-going 2011	Identify transport mechanisms that resuspend bacteria from sediment into the water column & possible remediation measures Report on the relationship of sediment & water column FC at DOH station 614 during the summer, & the effect of wind speed, wind direction, tidal action, & shellfish bed management activities	SIT, EPA SIT \$ 26,300

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD	on-going		All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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1/3/2011 Oakland Bay Action Plan Strategy

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Objective 3: Develop and implement Public/Private partnerships, and a Public Involvement Plan

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Develop new educational materials & a public involvement plan regarding water quality in Oakland Bay	Hold periodic public outreach/update meetings or workshops/trainings	MCD, <u>WSU</u> , Sea Grant, MCPH, COS, Taylor Shellfish, ECY, SIT	Quarterly, format based on WEI grant messaging research	On-going	<p>Educate public about water quality & the <u>Advisory Committee</u> process. Outcome: community support, public comment & education.</p> <p><u>MCD Ag. Manure Exchange Program</u> now more easily accessible, info. available at Ag workshops & in newsletters. Manure Management webpage is in process -page should be online by March. -Composting Workshop series under development.</p> <p><u>MCD Pet Waste: Dog Waste Program</u> under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be complete by June 11. <u>Holding OSS Workshops</u> in cooperation w/MCPH.</p>	<p>MCD, WSU, Sea Grant, MCPH (09 fund), MCUWM, SIT (WEI grant) & other educational working group members, other public meeting participants, MCD- Agricultural Outreach - EPA WEI & DOE ORAP Centennial grant; Pet Waste Program - PSP EcoNet Block Grant proposal & EPA WEI grant. Taylor Funding of OB opening house food \$500. MCPH - 16054 PSGA- funds SLURP, estimated cost coming soon, WSU- \$29,00 (09 Fund MOU) + WEI grant (\$29666)Ecology funding for Open House \$579.84.</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Establish Oakland Bay ORCA buoy	Contact PSP to follow up (initial response positive, will cost 20K to deploy & .5 FTE to maintain)	<u>ECY</u> , PSP, UW Congressman Norm Dicks		On-going	Long term water quality data for additional parameters	Federal Government Unfunded at this point
Oakland Bay & tributaries combination water cleanup & implementation plan (TMDL)	Draft technical report Draft clean up plan Public comment & outreach	<u>ECY</u>	Public draft of technical report & clean up plan	fall/winter 09 May 2010 May 2010	Data analysis & modeling. A combination Water Quality Improvement Report (WQIR) & Water Quality Implementation Plan (WQIP). The appropriate sections of the APS will be included in this report. Public meeting & availability of draft report for public comment	Funded ECY estimated staff cost \$5,000.

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Final plan submitted to EPA			Oct-10		
Oakland Bay Sediment Characterization Study	ECY contract for characterizing surface & subsurface sediments in Oakland Bay & Shelton Harbor for chemical contamination & wood waste concerns.	<u>ECY</u>	Briefing to stakeholders Public Review Draft report Final report	spring 09 Early Spring 2010 Summer 2010	presentation- done	ECY \$ 457,000 + \$50,000 in staff + unaccounted for amount from PSP for shellfish testing
Investigate dioxin contamination of sediment and determine if clean-up is necessary		ECY		Ongoing		ECY

Objective 5: Identify and Remediate Agricultural Sources

Respond to animal feeding operations or pasture based water quality complaints. (ECY/ Ag. Complaint line 360-407-6300)	Coordination between ECY & WSDA.WSDA will work with dairies, all other livestock operations are ECY jurisdiction.	<u>ECY</u> , WSDA, MCD	Timeline & policy established as a PM for ECY? (Ag.has 3 day response policy) Idea, also possible to get a monthly report from ECY; # complaints, # follow ups, # informal action, # formal actions for the area	On-going	Identify & respond to water quality risks. ECY response as needed.	Agency operating budget
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	<p>Referral to MCD if there is no immediate impact or potential for impact to waters of the state</p> <p>State enforcement action in cases with an immediate impact or potential for impact to waters of the state.</p>		MCD will respond to ECY, WSDA referrals within 48 hrs of receipt of agency notice or landowner request.	<p>On-going</p> <p>Schedule for action depends on the issue</p>	<p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p> <p>Met: MCD has responded to several referrals regarding ag and critical area buffer violations. MCC continues to respond within 48 hours.</p>	<p>ECY, MCD- estimate for 2009</p> <p>MCD- estimate for 2009</p>

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD	on-going		All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
			Annual shellfish protection district report Annual review by DOH	met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	

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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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	Continue to build Oakland Bay website. SIT will add OB news to their Twitter when appropriate.			On-going	Adding updates to website as available	

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Freshwater sampling	MCPH & SIT ambient & intensive sampling	<u>SIT</u> , MCPH, DOH	Quarterly review of number & location of samples taken by MCPH & SIT, quarterly fact sheet on trends in FC levels, # of hot spots ID'd & investigated w/ analysis & recommendations to MCPH	On-going	Pollution Identification	MCPH 09 fund in obj 6, SIT- \$30,000 SIT- EPA grant, DOH
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Marine sampling	Determine if non-point identification & remediation have improved marine water quality in Oakland Bay enough to re-open/keep open portions of Oakland Bay for shellfish harvesting	<u>DOH</u> , MCPH, Taylor	Decrease sampling to 12 sample runs a year Sample small tribs at North to start summer of 2009	Done	Systematic random sampling of stations; additional studies. The Restricted area in the northern end of Oakland was reclassified to Conditionally Approved during the months of October through May. The area remains Restricted during the months of June through September. The reclassification became final on 12/12/2 14 marine water stations and 7 freshwater sampled during the summer months of 2008 and 2009	DOH, MCPH, <u>Business</u> - \$400, DOH \$17,500 MCPH- ? Zero
Investigate sediment as secondary source of bacterial pollution	Implement designed study	<u>SIT</u> , Shellfish industry		On-going	Identify transport mechanisms that resuspend bacteria from sediment into the water column & possible remediation measures	<u>SIT</u> , EPA SIT \$ 26,300

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Report to Advisory Committee			2011	Report on the relationship of sediment & water column FC at DOH station 614 during the summer, & the effect of wind speed, wind direction, tidal action, & shellfish bed management activities	

Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
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Objective 2: Identify District Boundaries, Oversight and Finance

Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	<u>BOCC</u> , all partners			Educational working group formed Other groups form on ad-hoc basis	
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Investigate dioxin contamination of shellfish tissue and determine if health advisory is necessary		<u>DOH</u>		Ongoing		<u>DOH</u>

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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Develop recommendations for funding and bring to BOCC, regular discussion with BOCC	MCPH, all Advisory Committee members		On-going		

Objective 4: Monitor Water Quality, Conduct Shoreline and Upland Surveys, and Conduct Research

Establish Oakland Bay ORCA buoy	Contact PSP to follow up (initial response positive, will cost 20K to deploy & .5 FTE to maintain)	<u>ECY</u> , PSP, UW Congressman Norm Dicks		On-going	Long term water quality data for additional parameters	Federal Government Unfunded at this point
Periodic nutrient budget assessment.	Regular research of feasibility & need for nitrogen/phosphorus removal	<u>PSP</u>		On-going		PSP

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Objective 7: Identify and Remediate other sources

Pet waste control strategy	<p>Research- regulatory needs, implementation needs and enforcement needs and funding possibilities</p> <p>Propose plans to stakeholders</p> <p>fund/ implement</p>	Sea Grant, COS, MCPH,DCD <u>MCD</u>			<p>Increased convenience for pet owners. MCD Pet Waste: Dog Waste Program under development -to include building & installing pet waste pick-up stations, website information, bus signage & radio spots etc. - to be completed by June 11.</p> <p>Ability to enforce pet waste clean up</p> <p>Improved public response</p> <p>Report provided to COS/MC</p> <p>Increased compliance with pet waste disposal regulations</p>	<p>COS, MC... MCD: PSP Partnership \$10K EcoNet Block Grant and EPA WEI grant funding Ed portion</p>
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)

Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Property acquisition into conservancy	Evaluate feasibility & approaches	DCD, Capitol Land Trust, Cascade Land Conservancy, Port of Shelton, City of Shelton		On-going		TBD, potential grant sources
Develop incentives for: (1) natural shoreline protection including reduction of existing hard armoring (2) shoreline riparian & other buffer enhancement with native plantings	<p>Explore different approaches for providing homeowner incentives for natural shoreline, riparian & other buffer protection & enhancement.</p> <p>Research & identify potential funding sources & approaches</p> <p>Develop a plan for implementation</p>	PSP, DCD, MCD	<p>MCD will hold at least 2 native plant workshops annually</p> <p>MCD will prepare & distribute a brochure/mailer for shoreline/stream side landowners</p>	On-going	<p>MCD held 4 native plant workshops</p> <p>MCD: submitted Centennial Grant Application 12/09 to expand planting restoration programs.</p> <p>MCD completed 2 brochures on native plants for shoreline/streamside landowners, which are distributed regularly. A direct mailing was sent to 1,264 streamside landowners in the watershed Jan 2010.</p>	<p>MCD Centennial Grant through 4/2010</p> <p>MCD Centennial Grant through 4/2010</p>

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Implement incentives Note: MCD can provide technical assistance to property owners		MCD will prepare conservation plans focused on restoration		MCD: 26 restoration planting plans have been completed in the watershed since 2008; project implementation is in process. Over 50 BMPs have been implemented to restore riparian health.	MCD + estimated individual contribution MCD - same as above (right?) Centennial Grant through 4/2010
Respond to water quality complaints that involve land uses in critical areas	Investigate all WQ complaints in critical areas within 2 working days of referral	DCD, MCD	MCD will respond to DCD referrals within 48 hrs of receipt of agency notice or landowner request.	On-going	Timely investigation of land use activities Since 2007 MCD has assisted 11 referrals from Mason County who live within the Oakland Bay watershed, resulting in 1 conservation plan and 6 planting restoration projects.	DCD- investigation (MCD cost reflected in plans developed)
Small Parcel Stormwater Site Plan requirements	MCD can provide stormwater BMP technical assistance	DCD, MCD	MCD will work with DCD to inform the public of the new requirements	June 2009	MCD provided technical assistance on stormwater issues to 15 landowners.	DCD , MCD + individual Squaxin WEI grant through 9/2012; MC Stormwater Implementation Grant through 4/2011

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
Formation of Surface and Stormwater Management District	<p>Memorandum of Understanding for roles & responsibilities</p> <p>Establish Surface and Stormwater Management District boundaries</p> <p>Establish Surface and Stormwater Management District funding</p>	MCUWM, MCPW, MCPH, WSU, MCD, DCD		<p>June 2009</p> <p>Dec 2009</p> <p>2011</p>	<p>Understanding of each agency's or dept. role & responsibilities within the Surface and Stormwater Management District</p> <p>BOCC adoption of Surface and Stormwater Management District boundaries</p> <p>Stable funding source established</p>	MCUWM Stormwater Implementation Grant & MC matching funds
Countywide stormwater ordinance to include LID standards	<p>Explore how reduced impervious surface provisions could be incorporated into ordinances</p> <p>Implement ordinances</p>	DCD, COS	<p>Limits development</p> <p>Implement began December 2008</p>	<p>Jul-08</p> <p>Dec-08</p>	Less runoff, better stormwater treatment, more vegetative cover	DCD, COS
Evaluate the need for special overlay protection	Using land tools such as carrying capacity & performance standards to assess land use activities & vegetative cover removal within the closure area	DCD	Tools ID'd by December 2007	12/31/08		

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Implement policy that adequately protects closure area		Evaluation complete & recommendations to BOCC	07/30/09	Improved land use practices	DCD, COS

Objective 9: Key Enforcement Elements

(Note: Enforcement tasks may be found in other parts of this table. These tasks have been given a separate objective because they are considered critical to the success of the Closure Response Plan.)

Nonpoint ordinance & stormwater enforcement	Project research & scoping; EH, DCD, PW, MCUWM, discuss how inclusive of nonpoint sources ordinance should be & if ordinance is to be developed as part of the Mason County Comprehensive Plan.	MCPH, DCD, MCPW, MCUWM, BOCC	Set up scoping meeting (Vicki) for NP ordinance; Barb, Charlie, Debbie, Emmett		Provide enforcement options	Agency budget
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Objective 10: Program Evaluation

Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD	on-going		All- OBCWD meeting time MCPH 09 fund
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
			Annual shellfish protection district report		The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	

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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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 MCPH = Mason County Public Health
 MCPW = Mason County Public Works
 MCUWM= Mason County Utilities and Wastewater Management
 NP= Nonpoint
 PSP= Puget Sound Partnership

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 Sea Grant= Washington State Sea Grant, University of Washington
 SIT = Squaxin Island Tribe
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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1/3/2011 Oakland Bay Action Plan Strategy

Note: Lead Agencies underlined

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Objective 1: Identify Responsible Lead Agencies, Action Steps and Performance Measures

Hold regular meetings of OBCWD Advisory Committee. Include all entities involved in Oakland Bay restoration projects	Regular meeting date	<u>MCPH</u> , all partners	Hold at least 4 quarterly meetings per year	On-going	Coordination of Action Plan Strategy	All MCPH- 09 fund, MCD- EPA WEI & DOE ORAP grants Business - Taylor \$1000 13200 meeting and Matrix-MCPH, DOH \$3500
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Objective 2: Identify District Boundaries, Oversight and Finance

Develop & adopt a system of oversight	Determine needed functions of committee & develop subcommittee to provide oversight, address or report on specific issues	<u>BOCC</u> , all partners			Educational working group formed Other groups form on ad-hoc basis	
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Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
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Objective 7: Identify and Remediate other sources

Research using mycoremediation to reduce fecal coliform	test for Klebsiella- set up & test negative controls test for evidence of fungal growth Test sufficiently in wet season conditions. Test precip vs. dry efficacy.	MCPW, MCPH, MCUWM, MCD	SIT funding possible SIT funding testing ideas under development Review/Adjust field sampling protocol to reduce opportunity for inconsistent treatment results. Develop sample analysis to test specifically for e-coli bacteria.	2009	adding to database for evaluation	Funding needed, SIT funding SIT?
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Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

County wide stormwater plan presentation to MC BOCC	Recommend BOCC form Surface and Stormwater Management District	MCUWM		April 2009	Formation of Surface and Stormwater Management District	MCUWM Stormwater Implementation Grant
Formation of Surface and Stormwater Management District	Memorandum of Understanding for roles & responsibilities	MCUWM, MCPW, MCPH, WSU, MCD, DCD		June 2009	Understanding of each agency's or dept. role & responsibilities within the Surface and Stormwater Management District	MCUWM Stormwater Implementation Grant & MC matching funds

Objectives and Tasks	Action Steps	Lead Agency/Partners	Performance Measures	Timeline	Product/Outcome	Fund Source & amount per year (include intra-agency funding)
	Establish Surface and Stormwater Management District boundaries Establish Surface and Stormwater Management District funding			Dec 2009 2011	BOCC adoption of Surface and Stormwater Management District boundaries Stable funding source established	
Updated Oakland Bay stormwater regulations	Develop stormwater regulations for Oakland Bay Present to BOCC Adopt regulations	<u>MCUWM</u>	Comprehensive plan update	On-going Dec-09	Oakland Bay stormwater regulations meet the MC Stormwater Ordinance #81-08 adopted 6/17/08	<u>MCUWM</u>

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Objective 7: Identify and Remediate other sources

Reduce bacterial conveyance from HWY 3 stormwater discharges	WSDOT shall implement pollution prevention measures contained in its HWY 3 Stormwater Management Plan	<u>WSDOT</u>		done		
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Objective 7: Identify and Remediate other sources

•Oakland Bay Park Property Riparian Restoration	partnership with PUD #3, Capitol Land Trust to develop & implement phased riparian restoration along Malaney Creek	<u>MCD</u> , PUD #3, CLT, MC Parks & Trails, WA Conservation Corps Crew		Phase 1 resoration complete; Phase 2 in process	Phase 2 site preparation complete; planting to take place with volunteers this spring.	<u>MCD</u> :PUD #3 funding; DOE ORAP Centennial Grant funding
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Objective 8: Identify Land Use Policies and other Statutory Interventions that will Protect, Restore and Preserve

Property acquisition into conservancy	Evaluate feasibility & approaches	DCD, Capitol Land Trust, Cascade Land Conservancy, Port of Shelton, City of Shelton		On-going	Acquire 125 acre property w/ OB shoreline and creek frontage	TBD, potential grant sources
	identify land and funding for acquisitions in the John Creek corridor	CLC				
	Eagle Point	CLC		6/30/10		
	Twin River Ranch acquisition	CLT				
	Johns Creek acquisition	CLT		On-going		
	Coffee Creek acquisition	CLT		On-going		
	Hammersley Inlet acquisition	CLT		On-going		
	Goldsborough Creek acquisition	CLT		On-going		
Eastern Oakland Bay acquisition	CLT	On-going				
Both CLC and CLT are working on additional protections along Goldborough Creek in partnership with the County	CLC, CLT			TBD, potential grant sources		

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Establish measurable goals to track APS effectiveness	Set TMDL limits for FC bacteria	MCPH, all members of OBCWD Advisory Committee	Semi-annual review by Board of OBCWD Annual shellfish protection district report Annual review by DOH	on-going met	The education sub-committee will take this on for our spring Advisory Board Meeting. Plan to meet about format on Feb. 3rd and being collecting indicators	All- OBCWD meeting time MCPH 09 fund
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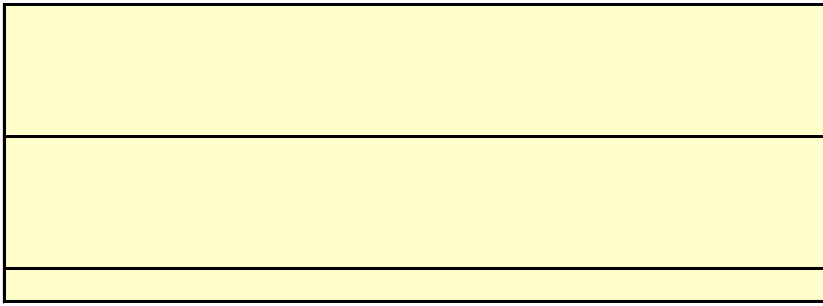
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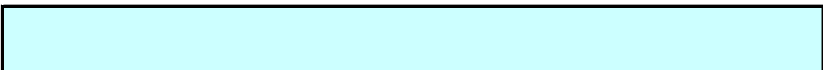
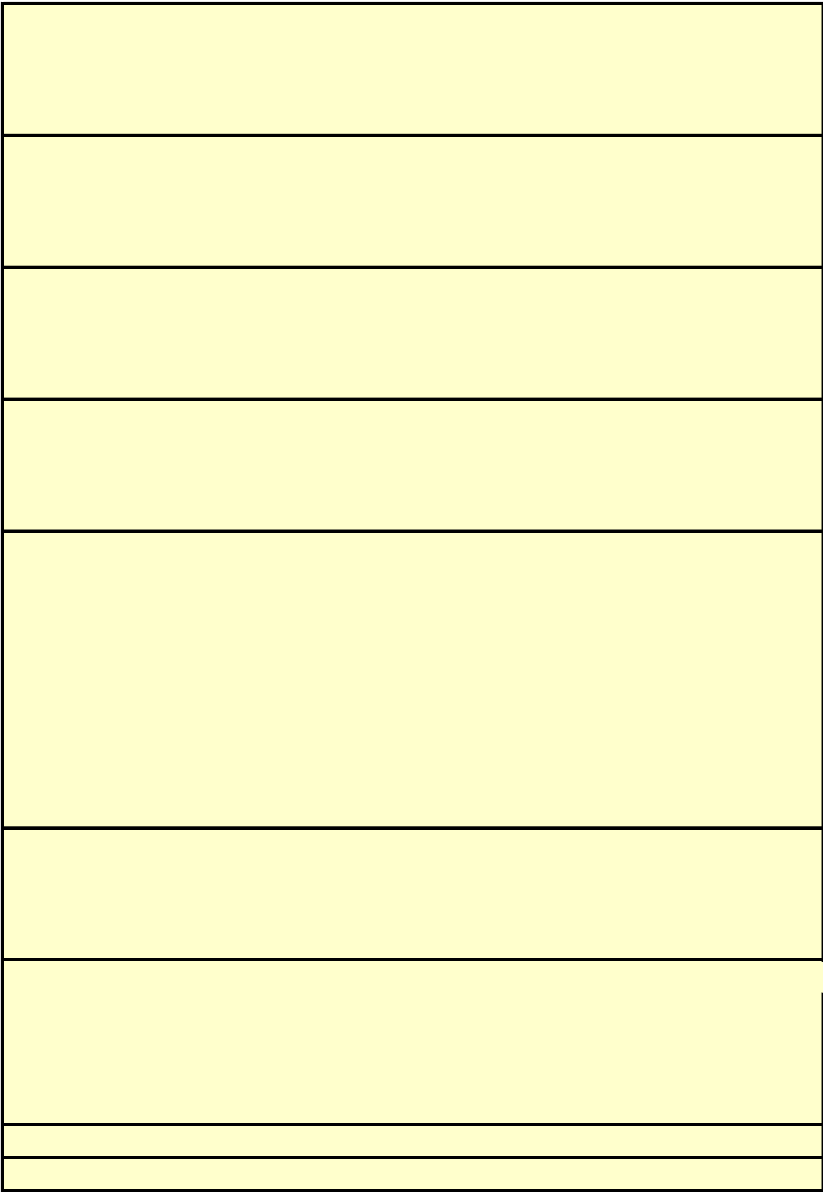
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