

Working Example Threat Reduction Objectives for Puget Sound
for the Ecosystem Coordination Board October 9, 2009

| Draft Threat Reduction Objective | Draft Performance Measure | Draft Target | Existing measure/ standard in code or other? | Action Agenda Strategic Priority | Comments |
|---|---------------------------|--------------|--|----------------------------------|--|
| Growth and development | | | | | |
| By 2020, 95% (?) of all new development across Puget Sound Basin will occur within urban growth areas | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |
| By 20XX, 100% of expanded urban growth areas are located in ecologically appropriate areas | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |
| By 2020, clustering happens in at least 75% (?) of new rural development projects so that effective parcel size is 20 acres and average density across area is no more than 1 unit per 5 acres (benchmarks could be: 50% by 2012; 65% by 2018) | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |
| By 2020, clustering happens in at least 95%(?) of new forest resource land development so that effective parcel size is 80 acres and average density across these lands is no more than 1 unit per 80 acres (benchmarks could be: 60% by 2012; 90% by 2018) | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |
| By 2020, clustering happens in at least 95% of new agricultural resource land development so that effective parcel size is 20 acres and average density across these lands is no more than 1 unit per 20 acres (benchmarks: 60% by 2012; 90% by 2018) | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |
| By 2018 (next major update of X plan), when development is proposed in an ecologically valuable urban area, at least 75%(?) of new urban development projects achieve, an effective density of at least 4 units per acre (benchmarks could be: 2012: 50%) | TBD | TBD | No | A | Are no legal or procedural barriers to doing this now. |

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| By 2012, no new essential public facilities and other public infrastructure are sited with channel migration zones. | TBD | TBD | No | A | |
| By 2020, natural flood storage capacity in floodplains has increased to account for highly likely hydrologic regimes resulting from the effects of climate change. | TBD | TBD | No | A | |
| Freshwater flow and water withdrawals | | | | | |
| By 2020, per capita residential water use across the PS Basin declines to an average use of ___ gallons per day | Residential water use per capita | ___ gallons per capita per day | No | A | must go with the one below |
| By 2020, water withdrawals and diversions from rivers, lakes and wetlands are reduced from the 200_ baseline such that the total number of uses and volume of water extracted do not contribute to impaired habitat quality. | Total volume of water diverted | TBD | No | A | Would be based on forthcoming PEP standards for impairment |
| Restoration | | | | | |
| By 2020, all mainstem dams have been structurally modified to provide appropriate fish passage. | # of dams removed or with appropriate fish passage | TBD | No | B | |
| By 2020, at least X miles of shoreline in appropriate areas do not have barriers to nearshore processes (e.g., no shoreline armoring). | # miles of marine shoreline in appropriate areas without shoreline armoring | TBD | No | B | |

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| By 2020, x acres of estuarine habitat is restored | X acres of estuarine habitat | TBD | Yes, EPA measure of 3500 acres restored btwn 2007 and 2012 | B | Need to verify basis for EPA number |
| By 2020, x acres of floodplain habitat restored | x acres of floodplain habitat | TBD | No | B | |
| Invasive species | | | | | |
| By 2016, all ballast water is treated and all treated ballast water is free of invasive species | % of ballast water treated % of ballast water free of invasives | 100% of ballast water | No | A | |
| Wastewater and onsite sewage | | | | | |
| By 2010, total acreage of shellfish beds open to commercial or recreation harvest increased by at least 10,000 acres as compared to 2007 levels | # of acres of shellfish beds that have been upgraded for commercial or recreational harvest | 10,000 acres net increase | Yes. Linked to an existing EPA goal for 1,000 acres by 2012 | C | Need to verify basis for EPA number |
| By 2020 ____ WWTPs have X% reduction in nutrient loading. | # of WWTPs with X% reduction in nutrient loading | X% reduction | | C | Needs to be written to address volume, concentration and vulnerability of receiving waters |
| Stormwater runoff from the built environment | | | | | |

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| By 2020, runoff from 100% of new development projects will mimic the natural forested hydrologic conditions of the site before development occurred. | % of new development projects where runoff mimics the natural forested hydrologic conditions of the site before development occurred | 100% of new development projects | No | C | |
| By 2020, runoff volume from retrofitted existing development will be reduced by at least X%. | % reduction in runoff volume from existing developed sites | TBD | No | C | |
| By 2020, 100% of industrial permittees comply with permit requirements that meet or exceed water quality standards established under the Clean Water Act. | % of industrial permittees that comply with their permit requirements | 100% of industrial permittees | No | C | |
| By 2020, 100% of construction permittees comply with permit requirements that meet water quality standards established under the Clean Water Act. | % of construction permittees that comply with their permit requirements | 100% of construction permittees | No | C | |
| By 2020, 100% of municipal permittees comply with permit requirements that meet water quality standards established under the Clean Water Act. | % of municipal permittees that comply with their permit requirements | 100% of municipal permittees | No | C | |
| Adoption rates of LID requirements | | | | C | |
| % of LID in new development permits | | | | C | |