

#44

COMPLETE

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Page 1: Introduction & General Questions

Q1 Please provide the name of the jurisdiction you are representing:

Multnomah County

Q2 Please provide the names of the individual who are completing this survey:

Roy Iwai; Katie Skakel

Q3 Please provide the titles of the individual(s) completing this survey:

Water Resources Specialist; Senior Land Use Planner

Q4 Please provide the jurisdiction's address:

Multnomah County Transportation, 1620 SE 190th Ave, Portland, OR 97233

Q5 Please note below the County where this jurisdiction is located:

Multnomah County

Q6 Please provide the email of the person(s) completing this survey:

roy.iwai@multco.us; katie.skakel@multco.us

Q7 Please provide the telephone number of the person completing this survey:

503-988-0195

Q8 What is the most recent TMDL Implementation Plan approval date for this jurisdiction: Date **04/15/2014**

DEQ TMDL Five Year Review 2018 for DMAs

Q9 Has this jurisdiction's council, commission, or governing board approved the most recent TMDL Implementation Plan? **No**

Q10 Were the required annual reports submitted over the last reporting period of four years?

	Answer
Report 1	Yes
Report 2	Yes
Report 3	Yes
Report 4	Yes

Q11 Did you address or discuss with DEQ all comments provided on each annual report that was submitted? **Yes**

Q12 Did DEQ provide an annual report acceptance letter and/or email for each annual report that was submitted? **Yes**

Q13 Please identify the DEQ Basin Coordinator(s) assigned to this jurisdiction (check all that apply): **Andrea Matzke, Karen Williams**

Q14 Please identify the TMDL(s) that apply to this jurisdiction: **Columbia Slough (1998), Tualatin Subbasin (2001 and amended 2012), Lower Willamette (2006)**

Q15 Please identify the population size for this jurisdiction: **> 10,000**

Q16 Please indicate this jurisdiction's status: **County NPDES MS4 Phase I Permittee**

Page 2: Riparian Protection

Q17 Does this jurisdiction have a riparian protection program developed following the Statewide Planning Goal 5? **Yes**

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Q18 Did this jurisdiction use the Safe Harbor option during the Goal 5 process?

No

Q19 What year was the riparian map or inventory developed for this jurisdiction?

1994

Q20 Select the items below that this jurisdiction uses as part of a riparian protection program (check all that apply):

Regulatory approach (e.g., ordinance, codes) that (1) requires the replacement of riparian trees removed during development or redevelopment and (2) enforces these restrictions using reviews of site development plans coupled with site inspections.

Q21 To avoid a taking of private property rights, does this jurisdiction have rules (e.g., development codes) giving the development community tools (e.g., Low Impact Development approach) to avoid the loss of riparian vegetation and the shade it provides to streams during development?

Yes

Q22 Write the code citation for this jurisdiction's riparian protection program below. Write "NA" if this jurisdiction does not have a riparian protection program.

MCC 36.4555

Q23 Please briefly describe any additional information you would like to share about this jurisdiction's riparian protection program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 3: Riparian and Stream Restoration

Q24 Does this jurisdiction implement riparian restoration projects?

Yes

Q25 How many linear feet of riparian restoration projects has this jurisdiction implemented or funded in the last four years?

Less than 50 feet

Q26 How many stream restoration projects has this jurisdiction either implemented or funded in the last four years?

4

Q27 What type of stream restoration projects has this jurisdiction completed (check all that apply)?

Restoration of stream channel form after water control structures such as dikes and berms are removed.

,

Enhancement, rehabilitation, or reestablishment of riffle and pool stream structure.

,

Removal of stream barriers such as undersized culverts, fords, and grade control structures.

Q28 For designated management agencies located along the lower Willamette River (i.e. river mile 50 down to confluence with Columbia River), how many projects were implemented by this jurisdiction to identify, enhance or protect cold water refuges for migrating salmon (e.g., restoration such as floodplain reconnection on tributaries to Willamette mainstem)?

NA

Q29 Please briefly describe any additional information you would like to share about this jurisdiction's riparian and stream restoration program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

Multnomah County does not own any natural areas. The County only has stream crossings at county roads. More state funding for culverts would be fantastic!

Page 4: Wetlands Protection

Q30 Does this jurisdiction have a wetland protection program developed following Statewide Planning Goal 5?

Yes

Q31 To avoid a taking of private property rights, does this jurisdiction have rules (e.g., development codes) giving the development community flexibility (e.g., Low Impact Development approach) to avoid wetland loss and the loss of their cool water inflows from groundwater during development?

Yes

Q32 Does this jurisdiction have a local wetlands mitigation bank to perform mitigations within the same subwatershed when it is not possible to avoid impacts to wetlands during development?

No

Q33 Select the items below that this jurisdiction uses as part of its wetland protection program

Regulatory approach (e.g., ordinance, codes) that uses site plan reviews, site inspections and, if necessary, requires the mitigation of wetland impacts when development causes wetland loss.

Q34 Write the code citation for this jurisdiction's wetland protection program below. Write "NA" if this jurisdiction does not have a wetland protection program.

MCC 36.5520

MCC 36.4505

Q35 Please briefly describe any additional information you would like to share about this jurisdiction's wetland protection program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

na

Page 5: Drinking Water/Source Water Protection

Q36 Does this jurisdiction have a drinking water/source water protection program to protect the watersheds that furnish drinking water for this jurisdiction?

No

Q37 Does this jurisdiction have the authority to administer this drinking water/source water program in its code?

NA-This jurisdiction does not have a drinking water protection program.

Q38 Write the code citation for this jurisdiction's drinking water/source water protection program below. Write "NA" if this jurisdiction does not have a drinking water/ source water program.

NA

Q39 Does this drinking water protection program include a Statewide Planning Goal 5 inventory with ordinance specifying source water protection requirements?

NA-This jurisdiction does not have a drinking water protection program.

Q40 Does this jurisdiction's drinking water protection program include the acquisition of land for protection and/or conservation easements?

NA-This jurisdiction does not have a drinking water protection program.

Q41 Please briefly describe any additional information you would like to share about this jurisdiction's drinking water/ source water protection program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 6: Tree Protection

Q42 Does this jurisdiction have a tree protection ordinance to help retain stormwater on a development site to reduce temperature increases of stormwater on impervious surfaces and/or assist with stormwater management by retaining more stormwater on a site to reduce runoff carrying pollutants? **No**

Q43 Please write the code citation for this jurisdiction's tree protection program below. Write "NA" if this jurisdiction does not have a tree protection program.

NA

Q44 Please briefly describe any additional information you would like to share about this jurisdiction's tree protection program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 7: In-stream Water Transfers

Q45 Does this jurisdiction have a program to purchase or adopt permanent instream transfers through the Oregon Water Resources Department to support flows during the Summer and late Fall periods? **No**

Q46 Please briefly describe any additional information you would like to share about this jurisdiction's instream water transfer program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 8: Illicit Discharge Detection and Elimination

Q47 Does this jurisdiction have an Illicit Discharge Detection and Elimination Program (IDDE)? **Yes**

Q48 Does this jurisdiction have the authority to prohibit illicit discharges to your stormwater system and require their removal when discovered and a source is identified? **Yes**

Q49 Please write the code citation for this jurisdiction's IDDE Program below. Write "NA" if this jurisdiction does not have an IDDE program.

Multnomah County code: MCC27.773, MCC15.235, MCC27.772, MCC15.225, MCC37.0910, MCC27.999

Q50 Please check the elements below that are currently part of this jurisdiction's IDDE program:

- Development of a stormwater conveyance system map and/or database.**
- A tracking system for illicit discharges.**
- Procedures for responding to illicit discharges and enforcing compliance with an illicit discharge ordinance.**
- Procedures for prioritizing illicit discharge investigations using dry weather outfall screening (i.e., outfall reconnaissance inventory) for illicit discharges using the timing of screening, flow traps, and/or optical brighteners to minimize false negatives.**
- Procedures for prioritizing illicit discharge investigations using an assessment of existing information (e.g., desktop assessment) to identify areas where the probability of illicit discharges is higher.**
- Procedures for prioritizing illicit discharge investigations by sampling any flow in the stormwater system for indicator pollutants (i.e., indicator monitoring).**
- Conducting on-site investigations for illicit discharges using smoke, dye, and/or closed circuit TV.**
- Conducting septic system investigations for illicit discharges using ground surface inspections, dye, and/or remote sensing techniques when runoff from septic systems drain field has the potential to drain to your stormwater collection system (e.g., stormwater ditch, swale, or pipe).**

Q51 Please briefly describe any additional information you would like to share about this jurisdiction's IDDE program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 9: Post-Construction Stormwater Management

Q52 Does this jurisdiction have a post-construction stormwater control program? **Yes**

Q53 Does this jurisdiction have the authority to administer this post-construction stormwater control program in your code? **Yes**

Q54 Please write the code citation for this jurisdiction's post-construction stormwater control authority as well as the title and - if available - a hyperlink to any stormwater design manual used to implement this authority. Write "NA" if this jurisdiction does not have a post-construction stormwater program.

MCC 36.7960; 36.2095; 29.333(C); 29.353(C)

Multnomah County Stormwater Certificate

Multnomah County Design and Construction Manual <https://multco.us/file/16499/download>

Q55 Did this jurisdiction conduct a review of its code to identify barriers to the use of nonstructural stormwater controls (e.g., smaller lot size, smaller front yard setbacks etc.) and structural stormwater controls (e.g., bioswales, planter boxes etc.) characteristic of Low Impact Development (LID) before it drafted code or revised its code for the post-construction stormwater control program? **Yes**

Q56 Is the implementation of this jurisdiction's post-construction stormwater control program limited to its NPDES MS4 Phase I or II Permit boundary? **No**

Q57 Indicate which LID post-construction stormwater requirements presented below are included in this jurisdiction's post-construction stormwater control program (check all that apply):

A specified volume of stormwater that must be treated prior to discharge (e.g., treat 80% of the average annual rainfall).

,

A specified volume of stormwater that must be retained on a developed site (i.e., retention requirement).

,

A requirement for off-site mitigation of stormwater when a retention requirement cannot be met on a site.

,

A performance standard to prevent stormwater discharge from causing stream bed and bank erosion and releasing pollutants from this erosion (e.g., protect pre-development hydrology).

,

A performance standard for the level of stormwater treatment required (e.g., reduce 80% of the Total Suspended Solids).

,

A requirement to prioritize the use of stormwater controls that infiltrate and evapotranspire stormwater.

,

An allowance for stormwater mitigation when a requirement to retain a percentage of the stormwater on a site cannot practicably be met during development (e.g., off-site mitigation, payment-in-lieu etc.).

,

A list of approved structural stormwater controls including controls that can be characterized as green infrastructure controls (e.g., bioswales, planter boxes, vegetated filter strips) including information on their application, conditions limiting their use, operation & maintenance procedures, maintenance schedule, and design and specifications.

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Requirements for submitting post-construction stormwater control plans for your jurisdiction's review and approval.

,

A requirement for the maintenance of privately-owned stormwater controls discharging into your jurisdiction's stormwater system.

,

This jurisdiction does not have LID requirements.

Q58 Does your post-construction stormwater program have a system for documenting the performance of scheduled maintenance of post-construction stormwater controls (e.g., asset management system)? **Yes**

Q59 Has your jurisdiction instituted a stormwater fee to generate revenue to support the maintenance of your post-construction stormwater controls and/or administration of your post-construction stormwater control program? **No**

Q60 Has your jurisdiction instituted system development charges to fund future stormwater infrastructure including water quality controls supporting new development and redevelopment in your jurisdiction? **No**

Q61 Please briefly describe any additional information you would like to share about this jurisdiction's post-construction stormwater program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

Multnomah County's NPDES permit covers post construction that is applied only to county owned urban roads within the cities of Fairview, Wood Village and Troutdale. The urban pocket with County land use planning jurisdiction is nearly 100% built out residential area known as Interlachen. This is an area between Fairview and Blue Lake.

Page 10: Construction Stormwater Management

Q62 Does this jurisdiction have a construction stormwater control program (e.g., erosion and sediment control program)? **Yes**

Q63 Does this jurisdiction have a construction stormwater control program for the following activities: **An acre or less of land disturbing activities** ,

Other (please specify):
 Multnomah County does not have land use authority within the NPDES permit area except for a small residential area known as "Interlachen" which is the strip of land between Blue Lake and Fairview Lake.

Q64 Please write the code citation for this construction stormwater authority below as well as the title and - if available - a hyperlink to any construction stormwater design manual or standards this jurisdiction uses to help administer this code. Write "NA" if this jurisdiction does not have a construction stormwater control program.

MCC36.5520
 Multnomah County Stormwater Certificate
 MCC 29.333(C)

Q65 Is the implementation of this jurisdiction's construction stormwater control program limited to its NPDES MS4 Phase I or II Permit boundary?

No

Q66 Please indicate which of the following are part of your construction stormwater program?

A determination on whether a construction site needs a NPDES Construction Stormwater Permit.

,

A requirement that a developer receives DEQ approval for a NPDES 1200-C permit prior to receiving a land use permit to commence construction activities.

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A requirement for the review and approval of an erosion and sediment control plan for a construction site without a NPDES 1200-C Permit.

,

A requirement for the review and approval of an erosion and sediment control plan for a construction site with a NPDES 1200-C Permit.

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Inspection of construction sites to determine the presence of non-stormwater (e.g., illicit discharges) into your stormwater system.

,

Procedures for enforcing compliance with ordinance prohibiting sediment and other illicit discharges to your stormwater system.

Q67 Does this jurisdiction have a hillside or steep slope development protection code to minimize or prevent soil erosion and/or mass soil wasting?

Yes

Q68 Write the code citation for your jurisdiction's hillside or steep slope development requirements. Write "NA" if this jurisdiction does not have hillside or steep development protection code(s).

MCC36.5500

Q69 Please briefly describe any additional information you would like to share about this jurisdiction's construction stormwater program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Q70 Does this jurisdiction have a pollution prevention and good housekeeping program for its operations and activities?

Yes

Q71 Does this jurisdiction implement any of the following management strategies for pollution prevention in municipal operations (check all that apply)?

- Sweeping of streets** ,
- Sweeping of parking lots** ,
- Integrated pest management policy for the public works department and/or parks department** ,
- Practices to reduce or avoid fertilizer use maintenance operations for landscape areas** ,
- Minimize the use of deicing agents** ,
- Employee training on construction and maintenance practices to protect water quality** ,
- Maintenance program for stormwater treatment controls (e.g., catch basins, bioswales, planter boxes, wet ponds, constructed wetlands etc.)** ,
- Purchase of electric, hybrid, or low miles per gallon vehicles for you transportation fleet to reduce mercury emissions**

Q72 Please briefly describe any additional information you would like to share about this jurisdiction's pollution/ good housekeeping program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

Multnomah County does not own natural area or parks.

Page 12: Public Education, Outreach, and Participation

Q73 Does this jurisdiction implement a stormwater public education, outreach, and involvement program?

Yes

Q74 Does this jurisdiction have any quantitative results and/or opinions on how effective these outreach efforts are (e.g., what activities are the most or least successful or which activities are most cost effective)?

Yes, please specify:
A report describing the effectiveness of outreach was submitted to DEQ in 2014

DEQ TMDL Five Year Review 2018 for DMAs

Q75 What activities are part of this jurisdiction's public involvement, education, and outreach program (check all that apply):

Stormwater public education, outreach, and involvement program posted on a stormwater and/or water quality webpage

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Collaborating on region-wide stormwater education campaigns (e.g., Clean Rivers Coalition)

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Mailers on the value of protecting riparian buffers are sent out with our correspondence

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Mailers on the value of managing stormwater quality are sent out with our correspondence

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Mailers on the value of protecting wetlands are sent out with correspondence

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Workshop or training on a water quality topic

Water quality brochure, utility bill insert, city newsletter

Media release (Newspaper, Radio, Television, Cable Access Channel)

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Website utilized for posting and storing water quality documents

,

Fund, attend, and/or participate in watershed council meeting

Q76 Please briefly describe any additional information you would like to share about this jurisdiction's public education, outreach and participation program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 13: TMDL Pollutant Load Reduction Benchmark Evaluation

Q77 Did this jurisdiction do a TMDL pollutant load reduction benchmark analysis in response to a NPDES MS4 Phase I Permit?

Not applicable

Q78 Based on this jurisdiction's most recent TMDL pollutant load reduction benchmark evaluation:

This jurisdiction did not perform a TMDL pollutant load benchmark analysis.

Q79 Briefly describe this jurisdiction's progress towards attaining TMDL wasteload allocations. Please identify any successes and challenges.

The county maintains a rigorous street sweeping and catch basin clean program on the urban roads with Troutdale, Wood Village and Fairview.

Q80 Please briefly describe any additional information you would like to share about your jurisdiction's TMDL pollutant load benchmark analysis, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

Multnomah County's NPDES area primarily consists of roads within the cities of Troutdale, Wood Village and Troutdale and a few small rural pockets. Benchmark model was not an applicable tool given the areas, because non-structural best management practices were not included in the model. Please refer to the County's pollutant load analysis (2014).

Page 14: Water Quality Monitoring

Q81 Did this jurisdiction conduct and/or collaborate with other entities on water quality monitoring? **Yes**

Q82 During this five year plan implementation cycle, did this jurisdiction monitor (check all that apply): **Stormwater, Surface water**

Q83 What parameters are monitored? **Bacteria, Temperature, Mercury, Dissolved Oxygen, Lead, Phosphate,**
Other (please specify):
TSS, turbidity, Nitrogen, BOD, Chl-A, copper, zinc

Q84 Does this jurisdiction use water quality data to assess progress towards meeting load allocations for applicable TMDLs? **Yes**

Q85 Besides evaluating progress towards meeting a load allocation, are there other ways this jurisdiction uses the water quality monitoring data it collects and, if so, how:

public education

Q86 Please briefly describe any additional information you would like to share about this jurisdiction's water quality monitoring program and activities, e.g. progress, challenges, resource and technical assistance needs, etc. Write NA if you have nothing additional to provide.

NA

Page 15: Other Actions and Efforts

Q87 Any other programs or projects implemented by this jurisdiction but not captured in this survey? Write NA if you have nothing additional to provide.

Yes, please specify:
NA

Page 16: Funding Limitations

Q88 Did this jurisdiction have funding and resource limitations identified in the last 5 year review?

No

Q89 Has this jurisdiction identified strategies for overcoming these limitations?

NA- This jurisdiction does not have funding or resource limitations.

Q90 Does this jurisdiction partner with other jurisdictions, Non-governmental organizations, etc. in its effort to meet TMDL load allocations?

Yes, please identify these partners and briefly note the area(s) of collaboration::
Johnson Creek Watershed Council, Sandy River Watershed Council, Human Access Project (Big Float).

Q91 What sources of funding does this jurisdiction use to support its TMDL compliance actions (check all that apply):

Other, please specify::
County Water Quality Program is funded through the Road Fund (gas tax, vehicle registration).

Page 17: Projects to Showcase

Q92 Does this jurisdiction have any projects or actions that are particularly commendable that were accomplished in the last four years which this jurisdiction would like to showcase?

Yes, please

specify::

Multnomah County Water Quality Program staff founded and chairs the Clean Rivers Coalition, a multi-jurisdictional and multi-partner clean water outreach coalition, in 2015. The Coalition is led by a steering committee made up of jurisdictional and non-govt representatives. The Clean Rivers Coalition received a \$100,000 grant from the Meyer Memorial Trust in November 2017 to develop and begin implementing a statewide campaign for clean water. The CRC has recently selected a communications firm to begin this work. The CRC is also partnering with the EPA on environmental justice messaging.

Page 18: Proposed Changes to the Next TMDL Plan

Q93 Does jurisdiction propose changes or updates to its TMDL Implementation Plan for the next five year cycle?

No

Page 19: Feedback for DEQ

Q94 DEQ should improve upon or expand its efforts in the following areas (check all that apply):

The relationships between TMDL's, DEQ's Willamette Basin Water Quality Management Plan, nonpoint source DMA implementation plans, and point source NPDES permits are clearly communicated in meetings, in materials on DEQ's website, and in personal communication with DEQ staff.

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Water quality data and trends are summarized in the context of TMDL implementation progress and challenges.

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DEQ shares water quality and related resource and funding opportunities.

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DEQ TMDL Basin Coordinators are accessible and responsive when contacted or when assistance is requested.

Page 20: Certification Statement

DEQ TMDL Five Year Review 2018 for DMAs

Q95 Certification: The person certifying the report should be a principal executive officer (e.g., Public Works Director, City Administrator) or ranking elected official (e.g., Mayor). By putting my name, title, and date below, I certify that the information contained in this document is true, accurate, and complete to the best of my knowledge and belief.

Date: (mm/dd/yyyy)

11/7/2018

Name of certifying official:

Ian Cannon

Title:

Transportation Director
