

**Toronto and Region Conservation Authority
York Region – ORMCP Subwatershed Planning
2006 Mid Year Status of Deliverables**

Watershed Plan Component	Total York Region Budget	Actual York \$ Spent to date	Status of Deliverables as of June 30, 2006	Key 2006 Deliverables
Water Use Assessment	\$2000	\$653	Rouge River Watershed • Scenario evaluation underway. Humber River Watershed • Further work pending modeling results. Don River Watershed • Input to ORM report and priority regeneration sites methodology was provided.	Rouge River Watershed • Analysis of effects of future land use and management scenarios on water supply; • Input to development of a water allocation strategy and model policy regarding water use (e.g. minimum baseflow targets). Humber River Watershed • Analysis of potential effects of future land and water use and management scenarios on water availability; • Input to development of a water allocation strategy and model policies regarding water use (e.g. minimum baseflow targets). Don River Watershed • Water use specialist's input to ORM plan/policy and priority regeneration sites methodology
Water Budgets/ Base Flow Monitoring	\$7800	\$4757	Rouge River Watershed • Ongoing Senior engineer water budget input to final plan and policy. • Evaluation of scenario modelling results and corresponding written analysis and input to SOW Report is underway. Humber River Watershed • Ongoing Low flow/water use specialist input to final plan and policy Don River Watershed • Input to ORM report and priority regeneration sites methodology was provided.	Rouge River Watershed • Water budget input to State of Watershed ("SOW" Phase 1 Report); • Analysis of effects of future land use and management scenarios on natural systems; • Input to development of water allocation strategy and model policy regarding water budget management SWM criteria for infiltration; • Senior engineer input to final plan and policy Humber River Watershed • Analysis of potential effects of future land and water use and management scenarios on water budget and low stream flows; • Input to development of stormwater management criteria for groundwater infiltration. • Low flow/water use specialist input to final plan and policy Don River Watershed • Low flow specialist's input to ORM plan/policy and priority regeneration sites methodology
Aquatic Ecosystem & Habitat	\$50,000	\$32,152	Rouge River Watershed • Aquatic resource management plan workshop scheduled for July 13, 2006. Will integrate modelling results of LSAT, imperviousness, and water modelling results to determine effects on aquatic system. Humber River Watershed • Aquatic resource management plan workshop scheduled for July 13, 2006, as above.	Rouge River Watershed • Analysis of effects of future scenarios on aquatic systems; • Input to Watershed Plan recommendations and model policy; Aquatic resource management plan (ARMP) • Senior aquatic biologist input to final plan and policy • Consultation and finalization of Aquatic Resource Management Plan

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			Don River Watershed - Fisheries database update is in progress. - Fisheries specialist input to the ORM report and regeneration priorities methodology was provided. - Additional input to the regen. priorities methodology and ORM plan anticipated in the 2nd and 3rd quarters.	Humber River Watershed - Analysis of potential effects of future land and water use and management scenarios on aquatic system health; - Input to watershed plan recommendations and model policies Don River Watershed - Updated fisheries database - Aquatic systems policies for the ORM plan/policy - Input to regeneration priorities methodology
Terrestrial Natural Heritage	\$13,000	\$7,312	Rouge River Watershed - Completion of Scenario review and evaluation for all scenarios; Terrestrial system recommendations complete; Integration of terrestrial system results and recommendations with other watershed components is underway. Draft terrestrial system technical report is complete. - Revision of SOW Terrestrial System Chapter complete - Input to Natural Heritage Policy for the watershed underway Humber River Watershed - Analysis of effects of future potential scenarios in progress. Don River Watershed - Draft current conditions report completed with targets and management considerations. - Draft of the revised targeted terrestrial system is complete and being refined. - Terrestrial specialist has provided input to the ORM report and regeneration priorities initiative. - Additional input to the regen. priorities methodology and ORM plan anticipated in the 2nd and 3rd quarters. Additional field work is underway at some sites in the Don watershed	Rouge River Watershed - Integration of terrestrial target system with other natural heritage components (aquatics, groundwater). - Senior terrestrial ecologist input to final plan and policy Humber River Watershed - Analysis of potential effects of future land and water use and management scenarios on terrestrial health - Senior Terrestrial Biologist input to final Watershed Plan and policy recommendations Don River Watershed - Terrestrial systems policies, with respect to achieving “critical matrix habitat” (targets and guidelines for minimizing urban impacts on adjacent lands) - Input to regeneration priorities methodology and ORM plan/policy
Water Quality	\$20,000	\$12,349	Rouge River Watershed - Scenario modelling results largely complete - Analysis and evaluation is well underway. Humber River Watershed - Analysis of model outputs for water quality in progress. Don River Watershed - Analysis of water quality data for the ORM report is complete and development of management recommendations is underway - Further interpretation of watershed data is underway for input to regeneration priorities identification.	Rouge River Watershed - Water quality/contaminant modeling and analysis of alternative land use scenarios and their effects on water quality; - Assessment of effectiveness of SW Retrofits through 416/905 HSP-F model integration Humber River Watershed - Water quality/contaminant modeling and analysis of alternative land use scenarios and their effects; - Assessment of effectiveness of SW retrofits through 416/905 HSP-F model integration; - Input to watershed plan recommendations and model policies Don River Watershed - Modelling of 905 SW retrofit scenarios - Input to regeneration priorities methodology from water quality perspective - Senior hydrologist’s input to ORM plan/policy

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Groundwater Studies	\$27,500	\$2,610	Rouge River Watershed • Scenario modelling results largely complete • Broader scope of work underway as part of source protection project. Humber River Watershed • Model calibration in progress and nearing completion Don River Watershed • Hydrogeologist provided input to the ORM report and priority regeneration sites methodology. • Draft report on groundwater conditions is complete. Development of management implications is underway.	Rouge River Watershed • Analysis of effects of future scenarios on groundwater systems; • Input to final watershed plan recommendations; • Input to model policy and water allocation strategy • Senior Hydrogeologist input to final plan and policy Humber River Watershed • Senior Hydrogeologist input to final Watershed Plan and policy recommendations Don River Watershed • Completion of report on groundwater conditions and management implications • Input to regeneration priorities methodology from groundwater perspective • Senior hydrogeologist's input to ORM plan/policy
Project Management Policy Development Legal Review & Communications	\$279,000	\$95,076	Rouge River Watershed • Ongoing project Coordination/administration support to the Task Force. • State of the Watershed report revisions well underway. Completion pending incorporation of new information from modelling and interpretation and a final stakeholder review. • Scenario modelling is largely complete, including water budget, groundwater, surface water flow, temperature, chemistry, terrestrial, and aquatic. Final modelling and analysis technical reports are in preparation. • Written summary report of modelling and analysis is in preparation. • Draft management actions have been prepared to address key issues. Additional strategic direction is underway, based on review of model findings and further work noted below. • Water management workshops are planned for August and September to refine management directions and policy recommendations with stakeholder input • Natural Heritage management strategy workshop is planned for August • Community based social marketing study is well underway. It has involved research sessions with 100 single family residential owners and over 20 business owners regarding implementation strategies for lot level practices • Work is underway to develop criteria for use of public lands for community agriculture and strategies for promoting community shared agriculture as an economic strategy for local agriculture. • Climate change management strategies workshop is planned for August. • Held six Task Force meetings (Jan.11, Feb. 16, March 23, April 12, May 11, June 22). • Additional management summits and focus group meetings are planned over July and August • Further work on draft model policies pending modeling result. Humber River Watershed • Ongoing project coordination/administration • Review of 10 of 11 current conditions reports by municipal staff and other stakeholders in progress;	Rouge River Watershed • Project Coordination/administration support to the Task Force • Final State of the Watershed Report (ie. Phase 1 report) • Report Card Ratings Methodology Report • Final Written Summary Report of Modelling Analysis and Evaluation (ie. Phase 2 report) • Final Modelling Analysis and Evaluation technical reports • Peer Review report • Final Watershed Plan and Implementation Plan Preparation (ie. Phase 3 report). Key issues to be addressed: • Water Balance/SWM/instream erosion (<i>water balance policies and guidelines</i>) • Natural Heritage (<i>enhancement, invasive exotics control, encroachment management</i>) • Construction Practices (<i>E&SC, monitoring and enforcement, site restoration</i>) • Agricultural industry economic sustainability (<i>community supported agriculture, local markets</i>) • Residential/Business lot level barriers to implementation of sustainability practices (focus on naturalized landscapes, SWM, rainwater re-use) (<i>program recommendations based on social marketing study</i>) • Climate Change (<i>adaptation guidelines</i>) • Final consultation with each watershed municipality and key stakeholder groups. • Min. of one set of community open houses and focus group meetings (see input on final plan); regular Task Force meetings • Presentations to councils and key partner groups

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			• Preparation of Groundwater Quality and Quantity current conditions report (Phase 1 Report) completed; • Preparation of Scenario Definitions Report documenting scenario definitions and modeling assumptions drafted; • Development of VL-WABAS water budget model to resolve technical issues regarding integration of HSP-F and MODFLOW models in progress; Modelling of scenarios 1-4 completed • Preparation of Scenario Analysis and Evaluation Summary Report (Phase 2 Report) in progress; • Outline of Watershed Plan (Phase 3 Report) completed; • Draft management actions have been prepared to address key issues. Additional strategic direction is underway, jointly with Rouge watershed, based on review of model findings and further work noted above under Rouge section. • Consultation with municipality and stakeholders on draft current conditions reports in progress. • Additional focus group meetings planned over summer jointly with Rouge watershed process. • Further work on draft model policies pending modeling results Don River Watershed • Project coordination and administration continues. • 9 out of 11 draft current conditions reports are completed and undergoing internal review; the remaining draft reports are expected by the end of September, 2006. • A draft of the current conditions synthesis report is complete. • Consultants have been hired to develop a methodology for identifying priority regeneration areas and a workshop has been held with staff to start the process. • A draft report addressing greenfield development on the Oak Ridges Moraine portion of the Don watershed is complete. • Public consultation is anticipated in the 3rd and 4th quarters. • Draft Greenfield development recommendations for the ORM have been drafted as a discussion paper for initial review by municipal staff	• Final model policy and criteria addressing key issues including water budget, water use, SWM, groundwater management, aquatic and terrestrial natural heritage • Legal review of final plan/policy • Senior policy planner input to final plan and policy Humber River Watershed • Project coordination/administration • Final set of eleven current conditions reports (i.e., Phase 1 Reports: Groundwater Quality and Quantity, Surface Water Quantity, Surface Water Quality, Fluvial Geomorphology, Aquatic System, Terrestrial System, Air Quality, Human Heritage, Public Use, Land and Resource Use, and Existing Management Framework); • Updated watershed report card ratings for current conditions; • Report Card Rating Methodology Report; • Final Scenario Analysis and Evaluation Summary Report (i.e., Phase 2 Report); • Peer review report Final Watershed Plan (i.e., Phase 3 Report) addressing key issues as noted above for Rouge Don River Watershed • Project coordination/administration • Written summary report of watershed conditions, based on updated and new data (Phase 1-State of Watershed Report); Preliminary report on Phase 2 analysis • Final set of current conditions reports (groundwater quantity and quality, surface water quantity, surface water quality, low flow and water resource use, slope stability and erosion, aquatic systems, terrestrial systems, land and resource use, public use, cultural ecology) (Phase 1 reports). • Current conditions synthesis report (Phase 1 report). • Preliminary methodology for identifying priority regeneration areas (partial Phase 2 report) • Preliminary list of potential regeneration concept sites • Preliminary report addressing York's ORM watershed planning requirements for upper subwatersheds • Minimum one set of community open houses and focus group meetings (consultation on regeneration priorities, York Region ORM plan) Peer review • Draft model policy and criteria for York Region ORM plan • Senior engineer input to stormwater policy, criteria and guidelines.