

## York Region - Groundwater Management Strategy

| Work Task                                             | Assisting Agency/Firm                                              | 2002 |   |   |   |   |   |   |   |   |   |   |   | 2003            |   |                                 |   |   |   |   |   |   |   |   |   | 2004 |                        |   |   |   |                                               |   |   |   |   |   |   | Milestones/Deadlines                                       |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
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|                                                       |                                                                    | J    | F | M | A | M | J | J | A | S | O | N | D | J               | F | M                               | A | M | J | J | A | S | O | N | D | J    | F                      | M | A | M | J                                             | J | A | S | O | N | D |                                                            |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Central Hydrogeological Data Management System        | YPD / EFX                                                          |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   | Introduced to York Region business beginning in April 2003 |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Conceptual Geological Model                           | YPD / GLL / EFX / AEL                                              |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Baseline understanding for York Region achieved in Feb 2003      |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Numerical Groundwater Flow Model                      | YPD / EFX / GLL                                                    |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Required for Analysis                                            |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Potential Contaminant Source Inventory                | MMM / GAL                                                          |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Calibrated model to be delivered by fall 2003                    |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Water Use Inventory                                   | MMM / GAL                                                          |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Draft reports provided to staff.                                 |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Wellhead/Source Protection Policy Development         | YPD                                                                |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   | Database being implemented into GIS system                 |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Aquifer Management Guidance - Yonge Street Aquifer    | GLL / EFX                                                          |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Analysis to be complete by fall 2003                             |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Technical Wellhead Protection Area Delineation        | GLL / EFX / AEL                                                    |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Delineation to be complete by fall 2003                          |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Water Resource Exploration - Whitchurch-Stouffville   | JHL                                                                |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  | Drilling initiated in June 2003. Should be complete by Fall 2003 |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Technical Groundwater Studies - King City / Schomberg | CRA / GAL                                                          |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   | Work to commence in may 2003. Required by Sept 2004.       |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Long Term Planning - Groundwater Management Strategy  | YPD                                                                |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  |                                     |  |  |  | To meet York Region Budget deadline of 2004 |  |  |  |  |  |  |  |  |  |  |  |
| Legend                                                |                                                                    |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Work Phases:                                          | Planning/RFP/Council Approval                                      |      |   |   |   |   |   |   |   |   |   |   |   | Contracted Work |   |                                 |   |   |   |   |   |   |   |   |   |      | Active Use/Maintenance |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
|                                                       | Anticipated Date for Regular Operation                             |      |   |   |   |   |   |   |   |   |   |   |   |                 |   |                                 |   |   |   |   |   |   |   |   |   |      |                        |   |   |   |                                               |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  |                                     |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
| Abbreviations:                                        | YPD Study = York Peel Durham Groundwater Management Strategy Study |      |   |   |   |   |   |   |   |   |   |   |   |                 |   | GLL - Gartner Lee Limited       |   |   |   |   |   |   |   |   |   |      |                        |   |   |   | EFX = Earth FX Limited                        |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  | AEL - Azimuth Environmental Limited |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |
|                                                       | MMM = Marshall Macklin Monaghan Limited                            |      |   |   |   |   |   |   |   |   |   |   |   |                 |   | GAL = Golder Associates Limited |   |   |   |   |   |   |   |   |   |      |                        |   |   |   | CRA - Conestoga Rovers And Associates Limited |   |   |   |   |   |   |                                                            |  |  |  |                                                                  |  |  |  | JHL = Jagger Hims Limited           |  |  |  |                                             |  |  |  |  |  |  |  |  |  |  |  |