

Project Justification and Assurances Form

**WATER WELL MANAGEMENT and
INSTALLATION OF MONITORING EQUIPMENT**

Beneficial Management Practices Categories:

- 0901 Water Well Management: sealing and capping old water wells
- 0902 Protecting existing water wells from surface contamination
- 0903 Replacement water well project associated with an old water well that has been sealed and capped
- 0105 Monitoring wells, around manure storage.

Describe the environmental problem that exists _____

Describe the proposed solution _____

Note: Items that are **not eligible** in this category would include new or upgraded pumps, pressure tanks, piping, trenching and electrical components that might be associated with the project.

Please indicate "Yes" or "No" to the following statement:

	Yes	No
I have read, understood, and agree to abide by the Construction Guidelines that have been supplied and that apply to my planned project.	<input type="checkbox"/>	<input type="checkbox"/>
All related work will be carried out by a licensed water well professional	<input type="checkbox"/>	<input type="checkbox"/>

Name of Applicant (please print)

Signature of Applicant

Date

Please remove this top sheet and return with original signature to:
Ontario Soil and Crop Improvement Association
1 Stone Road West
Guelph ON N1G 4Y2

CONSTRUCTION GUIDELINES for WATER WELL CONSTRUCTION / DECOMMISSIONING, and INSTALLATION of MONITORING EQUIPMENT (Piezometers)

This is a general information package which has been specifically assembled for producers who have expressed interest in utilizing government cost-share programs in the following beneficial management practices categories:

- 0901 Water Well Management: sealing and capping old water wells
- 0902 Protecting existing water wells from surface contamination

Program participants are required to read, understand and abide by the construction guidelines.

The Project Justification and Assurances Form (also enclosed) must be completed and signed accordingly before being returned to the OSCIA Guelph office. Final approval of the proposed project will not be issued without the submission and acceptance of this form.

Please note the mitigation stated below applies to most, **but not necessarily all** projects. Program participants are responsible for applying appropriate mitigation.

Project Design and Planning

- Program participants are responsible for obtaining licenses, permits, approvals or authorizations and complying with all applicable municipal, provincial and federal legislation.
- Program participants must comply with the Ontario Regulation 903 for the siting, drilling, testing, design, construction, operation and decommissioning of a well. Contact Ontario Ministry of the Environment or OMAF Office or Conservation Authority for further guidance.
- Ensure that any discharged fluid is directed to an appropriately sized energy dissipating outlet device to prevent erosion at the point of discharge.
- Ensure drilling/discharge fluid does not enter water bodies.
- Ensure that pumping rate does not exceed sustainable yields or yields specified in provincial permits.
- Ensure refuelling activity and construction staging areas where contaminants are handled are located off-site where possible, or well away from a water body and from critical wildlife habitat.
- Ensure all equipment which comes in contact with water is free of contaminants.
- In areas of high concentration of known resources such as oil, gases and salt water aquifers, special permits and consultations may be required to avoid the risk of intersecting such resources.
- Ensure that proper drilling depths are targeted and not over drilled.

General Construction Guidelines

Wildlife and Species at Risk Section

- Minimize disturbance to fish and wildlife by scheduling work to avoid sensitive periods (i.e., spawning, nesting, migration, staging, breeding, hibernation or nursing) and areas (i.e., residence, wildlife movement corridors). Comply with any applicable 'no construction' timing windows.
- May need to consult COSEWIC (Committee on the Status of Endangered Wildlife in Canada) species list (federal) and the provincial list on rare and endangered species.
Federal: <http://www.cosewic.gc.ca>;
Provincial: <http://www.rom.on.ca/ontario/risk.php>
(Please contact Steve Bowcott at the Ministry of Natural Resources (705) 755-1754 for assistance.)
- Survey the area for active nests, burrows or dens prior to clearing, and avoid disturbing them.

- If migratory birds are breeding in the project area, contact Environment Canada regarding appropriate measures to protect them. (Please contact Andrew Taylor at Environment Canada (905) 336-4464.
- If any aquatic species at risk are known or expected to be present at any time within or adjacent to the project area, consult with Fisheries and Oceans Canada specialists or the relevant provincial authority regarding measures to avoid harmful disturbance. Contact your local Conservation Authority.
- Use existing roads and trails for site access where possible.

Soil Erosion and Sediment Control

- Effective short term erosion and sediment controls should be installed prior to work and maintained until the site has been stabilized.
- Phase work to minimize duration of exposure of disturbed areas.
- Divert surface runoff away from working areas and areas of exposed or susceptible soils, where feasible.
- Ensure earthworks do not intensify flood hazards or create undesired obstructions to drainage into natural water bodies.
- Ensure that any sediment laden water is discharged onto land or into a settling pond prior to re-entry into a water body (during construction, pipeline washing, etc).
- Postpone clearing of slopes (as required) until immediately prior to construction.
- If prolonged period of exposure is expected, stabilize stored and stockpiled soils against wind and water erosion by using temporary cover.
- Remove accumulated sediments prior to removal of controls, where feasible.
- Avoid dewatering in sensitive groundwater areas or near wells, where feasible

Construction Equipment and Operation

- Clean all machinery and equipment prior to transport to new construction areas.
- Construction equipment must be properly maintained to prevent leaks and spills of fuels, lubricants, hydraulic fluids, or coolants.
- Participant should have spill clean up materials on site. In the event of any reportable petroleum product or hazardous material spills, appropriate provincial authorities must be notified. Ensure emergency contact numbers are available on site.

Wastes

- Storage, handling and disposal of wastes and hazardous waste materials, will be done properly and in accordance with all relevant municipal, provincial and federal legislation.

Site Preparation

- Prepare the site according to the project plan including the erosion and sediment controls.
- Keep site clearing to a minimum and minimize disturbance to ground surface and vegetation, especially those that affect infiltration and runoff characteristics.
- All topsoil stripped and disturbed during the project should be salvaged and replaced as quickly as possible to encourage revegetation.
- Stabilize slopes as appropriate for local site conditions.

Construction

- Avoid work activities during excessively wet site conditions.
- Reduce vehicle emissions from heavy equipment by reducing/eliminating idling and also by properly maintaining/servicing the heavy equipment.
- Fuelling and/or servicing of mobile construction equipment and the storage of fuel and hazardous materials are not to occur within 100m of a surface water body.
- In the event that any cultural or heritage resources (bones, pottery) are discovered, construction must cease and the Ministry of Culture should be notified immediately. (Please contact Neil Chisholm at the Ministry of Culture at (416) 314-7148 who will direct you to the

responsible Heritage Planner for the area.) If this occurs, construction will occur as directed by the Ministry of Culture.

Post Construction

- Restore or re-vegetate all disturbed areas, including riparian areas, to pre-construction conditions, as soon as possible and to the fullest extent possible. All re-vegetation should be done with species that existed prior to construction or suitable species as planned (preferably native).
- Remove and dispose of wastes and hazardous waste materials from site properly and in accordance with all relevant municipal, provincial, and federal legislation as planned.