

Kimvar Enterprises Inc.
 Big Bay Point Resort Development – Monitoring Program Matrix
 Tree Removal Operations Stage 1A and 1B
 January 2010

Study/Report Reference	Component	Potential Impact	Proposed Mitigation Action	Monitoring Protocol			Reporting Content	Reporting Period	Response to Monitoring Outcome
				Methods	Frequency / Timing	Duration			
Stormwater Management and Monitoring Report	Water quality of Lake Simcoe	Turbidity increase in Marina Basin due to localized runoff from tree clearing operations and potential to entering Lake Simcoe	<ul style="list-style-type: none"> Installation of rock check dams in each tributary prior to clearing Installation of additional rock check dams and straw bales as required during clearing Installation of additional sedimentation control fencing around disturbed and/or sensitive areas or areas that may discharge to marina basin, wetland areas or drainage channels Installation of geotextile silt curtain across marina basin channel Installation of second geotextile silt curtain across marina basin 	<ul style="list-style-type: none"> Visual inspection of rock check dams, ESC measures and silt curtain to ensure in good working order Visual inspection of marina basin isolated by silt curtain #1 for signs of turbidity In the event of observed turbidity in basin, water quality sampling program initiated as per triggers identified in Section 8.2.1.3, SCS, 2009 Stormwater management and monitoring report Contractor education program to be carried out and implemented for all works carried out on site with regular follow up by the project administrator 	<ul style="list-style-type: none"> Weekly by project consultants Daily by Contractor and on-site project administrator and prior to and immediately following any significant runoff event during periods of activity on site Daily, as required 	<ul style="list-style-type: none"> Immediately prior to commencement of tree clearing operations, and until further ESC measures installed to protect for further site alteration works 	<ul style="list-style-type: none"> Report characterizing conditions of ESC measures, including site visit reports Map indicating location of ESC measures Photographic inventory Response recommendations 	<ul style="list-style-type: none"> Monthly, or following a significant runoff event Reports to be submitted to Town and LSRC Copy of all reports and inspection records to be maintained on site by contractor and project administrator or 	<ul style="list-style-type: none"> Increase number of rock check dams and locations to filter and settle out particulate matter Install additional ESC measures. Sedimentation control fence, etc. Utilize on-site generated mulch to cover disturbed areas from rain impact and consequential erosion Deploy contingency silt curtain to protect marina basin from Lake Simcoe

			channel should water quality sampling show increased turbidity per monitoring protocol						
Erosion and Sediment Control Plans	Construction Methodology Impacts	<ul style="list-style-type: none"> Refueling activities in proximity to Lake Simcoe and EP lands 	<ul style="list-style-type: none"> Prohibition on refueling and storage of fuel or maintenance activities within 100 meters of the Marina Basin, sensitive environmental features or EP lands Requirement for contractors to establish refueling and equipment maintenance stations in locations approved by the project administrator Provision in final contract for award, and as minuted at pre-construction meeting that no works to be undertaken beyond Tree preservation fencing, beyond limits of development, or within 100m of 	<ul style="list-style-type: none"> Visual inspection of refueling and maintenance areas and storage on site 	<ul style="list-style-type: none"> Daily by contractor and project administrator 	<ul style="list-style-type: none"> During tree clearing operations 	<ul style="list-style-type: none"> Report including weekly site visit report Map & photos indicating location of encroachments beyond fencing, basin, or limits of development and remedial works completed to prevent further encroachments 	<ul style="list-style-type: none"> Monthly reports to Town and LSRCRA Copy of all reports and inspection records to be maintained on site by contractor and Project Administrator 	<ul style="list-style-type: none"> Repair of any encroachments and warnings issued to contractor

		<ul style="list-style-type: none"> Tracking of mud to municipal ROW's 	<ul style="list-style-type: none"> All construction vehicles must enter and exit the site only from the approved, paved access routes. Municipal ROW's will be "street cleaned" as required 	<ul style="list-style-type: none"> Contract indicating only access as approved by the Town, visual inspection for monitoring conformity Visual inspection of road conditions to assess need for street cleaning 	<ul style="list-style-type: none"> Daily by contractor and Project Administrator 		<ul style="list-style-type: none"> Response recommendations and actions undertaken 		<ul style="list-style-type: none"> Street cleaning as required
		<ul style="list-style-type: none"> Dust suppression to minimize disruption to adjacent landowners, and loss of soil or to minimize fiber dust from chipping operations 	<ul style="list-style-type: none"> Water truck to be available to wet the site as required 	<ul style="list-style-type: none"> Visual inspection of site conditions will assess need for watering of site 	<ul style="list-style-type: none"> Daily by contractor and Project Administrator 				<ul style="list-style-type: none"> Site wetting as required

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