



Transport
Canada

Transports
Canada



AIRPORT WATER QUALITY

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TYPES

- SURFACE WATER
- GROUNDWATER



LEGISLATION

- MUNICIPAL
- PROVINCIAL/STATE
- FEDERAL



SOURCES OF CONTAMINANTS

- VEHICLE/AIRCRAFT MAINTENANCE
- AIRCRAFT/RUNWAY DE-ICING
- FIELD MAINTENANCE - PESTICIDES
- ENVIRONMENTAL SPILLS - FUEL/CHEMICAL
- CONSTRUCTION



DUE DILIGENCE



MANAGEMENT

- MONITORING/COMPLIANCE
- MANAGEMENT PROGRAMS
- AWARENESS
- CONSULTATION



AIRPORT DRAINAGE



ENVIRONMENTAL IMPACTS

- TOXIC EFFECTS
- EUTROPHICATION
- OXYGEN DEPLETION



SITE SELECTION

- DRAINAGE BASINS
- OPEN CHANNELS
- CULVERTS/STORM SEWERS
- DITCHES FLOWING OFF-SITE



METHOD

- AUTOMATIC SAMPLING
- GRAB SAMPLING



SAMPLING

- PARAMETERS
- FREQUENCY
- SCHEDULE MODIFICATIONS



QUALITY CONTROL AND ASSURANCE



SAMPLING METHODS

- AVOID CONTAMINATION
- VOLUME
- CONTAINER
- RINSING
- FILLING THE BOTTLE
- SAMPLE PRESERVATION
- CHAIN OF CUSTODY FORM
- SAMPLE SHIPMENT



DATA HANDLING

- COLLECTION
- VERIFICATION
- COMPLIANCE ASSESSMENT
- REPORTING
- RESPONSE



PARAMETERS - ANNUAL

- BIOCHEMICAL OXYGEN DEMAND - BOD (ORGANICS)
- CHEMICAL OXYGEN DEMAND - COD
- OIL & GREASE (OPERATIONS)
- PHENOLS (SOLVENTS, PETROCHEMICALS)
- TOTAL ORGANIC CARBONS (FUEL, GLYCOL)
- VOLATILE ORGANICS (SOLVENTS, FUELS)
- ALKALINITY
- TOTAL SUSPENDED SOLIDS



PARAMETERS - SEASONALLY

- GLYCOLS
- AMMONIA
- NITRATE
- NITRITE
- POTASSIUM
- ACETATE



CASE STUDY

- WASTE WATER DISCHARGES



Environment Management System

Canada

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