

Issues and Commitments identified during IWB Municipal Water and Waste Management Workshops (2015 – 2018)

Current Action Items

	Issue	Responsible Party	Action from Feb 2015 Workshop	Action Update as per Feb 2018
1	<p>Facility security – dumping outside designated areas/after hours, etc;</p> <p>Local Council reluctance to restrict 'after hours' access.</p>	Hamlet	<p>Post open and closure times within the community;</p> <p>Public awareness – Hamlet communication and education program required;</p> <p>Best practices, public awareness and education, community govt staff training, etc.</p>	<p>Hamlet representatives recognize that it is still an issue and will have to continue public awareness.</p> <p>2017 - Ongoing Public Awareness – Education</p> <p>2018 - Sachs – still an issue with burning – not enough fencing around site; Cardboard and single use bags are an issue now – can we burn? – need someone to separate cardboard/plastic bags from daily garbage – blows onto adjacent private lands by wind Paulatuk - Fencing is costly – fencing used for containment</p>
2	<p>Unauthorized and inappropriate dumping within the Solid Waste Disposal Facility (SWDF).</p>	Inuvialuit Water Board (IWB)/Municipal and Community Affairs (MACA)/ Hamlet	<p>Dumping controls and monitoring should be included on all construction contracts within the ISR;</p> <p>Hamlet/MACA/IWB – to discuss how to implement.</p> <p>Community Governments require the development and approval of Solid Waste Disposal Facilities By-Laws, including Tipping Fees.</p>	<p>Still an issue – contractors are not adhering to proper disposal methods.</p> <p>Share templates – tipping fees, schedules and tipping fee by laws – from LGANT website. www.lgant.com</p> <p>Proper O & M Plans for solid waste disposal facilities required;</p> <p>MACA is available to assist communities.</p> <p>Community governments need to be aware of projects within the communities, discuss T & Cs with contractors for disposal at municipal solid waste facilities. All Contracts should include the requirement for:</p>

				<p>1. written agreements with Hamlets re: Disposal T & C's; holdback clauses for disposal; and</p> <p>2. a letter from Hamlet re: contractor fulfilled T & C's for disposal – before holdback paid.</p> <p>Hamlets to address issue with Local Businesses.</p> <p>2017 – MACA update – Interdepartmental Technical Committee (MACA, PWS, ENR, HC) will meet in March 2017 – to discuss the management of hazardous waste, support to community governments – GNWT contracts are being updated – PWS to lead by example. Hamlet of Aklavik – submitted a resolution to NWTAC for May 2017 meeting - resolution for GNWT contracts include a hold on fees if there are issues with unacceptable dumping practices.</p> <p>2018 – INF aware of issue and interested in addressing issue in contracts – looking at option and the development of a clause for contracts Ak - Resolution passed at NWTAC – formal response from GNWT outstanding?</p>
3	<p>Unclear roles and responsibilities (including legal obligations);</p> <p>Board and Departments clarify roles and responsibilities.</p>	<p>Environment and Natural Resources (ENR), MACA, Health and Social Services (H&SS), Taiga, IWB</p>	<p>Brief summary of roles from water intake point to output and discharge back into the environment;</p> <p>What is each organizations responsibility, including inspection and enforcement – submission to IWB by April 30;</p> <p>Draft document will be put together by IWB and reviewed by Government organizations for comments prior to finalization - approved document will be circulated to municipal governments for their use and posted on the IWB website.</p>	<p>Draft Roles and Responsibilities document prepared by the IWB and discussed at workshop.</p> <p>Final comments to be submitted to IWB by March 11, 2016.</p> <p>IWB to finalize and distribute document; and IWB to identify additional communication options, including a shortened version to be prepared by IWB and distributed to Hamlets to be included in Council Members orientation packages, etc.</p> <p>IWB working on Roles and Responsibilities Summary Poster</p>

				<p>2017 - IWB circulated poster at workshop for discussion/revisions/approval.</p> <p>2018 – poster finalized in 2017 – distributed Booklet and poster to each of the Hamlet Councils and GNWT Depts in May 2017. MACA – Good Governance training for new council members – will provide to SCG.</p>
4	<p>Regionally focussed training opportunities;</p> <p>Expand availability of operator training Regionally focussed Include sampling and handling;</p> <p>Training – consult with communities when developing new training materials;</p> <p>Coordinate training on a regional basis – take advantage of ‘coming together opportunities’</p>	MACA/ Hamlet	<p>School of Community Government (SCG) training programs for water and waste management – 6 in total – held once per year throughout NWT; MACA to distribute SCG 2015 training calendar to Hamlets; Responsibility lies with the Hamlet to send operators or staff to training programs – funding provided within annual municipal budgets for training; MACA/ENR best practice is to inform community representative when conducting sampling at SNP stations and invite them to go along; SCG consults with NWTAC and LGANT on types of training required;</p> <p>Communities with an interest in having an SCG course delivered in their home communities can contact MACA. Accommodating a course, a home community would be dependent on available budget.</p>	<p>Training Schedule distributed by MACA. April 2016 – Inuvik – 2 courses available - Small Systems Water Treatment and Class 1 Water Treatment Operator</p> <p>Draft 2017 Training Schedule is being completed and upon completion will be circulated to each of the community governments by Training Coordinator.</p> <p>2018 – new training schedule is not out yet – will be posted on MACA website – link to 2018 training calendar</p> <p>Hands on training preferred by operators – classroom training is difficult for operators</p> <p>MACA has incorporated hands on training into the programs – balance is required – certification testing requirements make some training opportunities difficult for operators</p>
5	<p>Time sensitive sample management;</p> <p>Remoteness and limited timely transportation – submission of timely samples.</p>	Hamlet and Taiga	<p>Taiga to increase communication between Lab and Hamlets - design a smoother process for ongoing communications with the Hamlets;</p> <p>H & SS – E. Coli alert testing device in each of the communities except Tuk and Ulukhaktok – testing can be done in the</p>	<p>Taiga - Working with Information Technology project mgmt. group to implement and upgrade Land Information Management Systems (LIMS) to give everyone the ability to see results in real time and also to compare with CCME – to see if everyone is on track with their water and waste criteria – in progress.</p>

		Taiga	<p>communities for E. Coli – drinking water samples sent to Inuvik Hospital – E. Coli alert testing applies to drinking water only;</p> <p>Specifics for sampling should be included in the O & M Plan – ENR recommend to add to O & M template;</p> <p>Canadian Council of Ministers for the Environment (CCME) Guidelines to be submitted to Hamlets.</p>	<p>May be ready within a year. New contact information for Taiga – distributed to communities. Forms are getting updated – on website. Colilerts in each community except Tuk (SAO declined) – communities who want test kits have the test kits.</p> <p>2017 - IWB will get an update from Bruce Stuart – re: LIMS.</p> <p>2018 – get update from Bruce (email to Jeanne)</p>
6	Clearly identified contacts at Board and departments	IWB	Contact Lists distributed to Hamlets – IWB to continue to update on a regular basis	<p>IWB will circulate an updated list and put on website.</p> <p>2018 - IWB website to include updated Contact Lists for Communities/GNWT</p>
7	Age of facilities makes compliance with new standards difficult	Hamlet	<p>Lack of guidelines for older facilities; makes implementation difficult;</p> <p>Communities are responsible for infrastructure upgrades;</p> <p>Funding provided to Hamlets;</p> <p>Operational changes can be made to existing facilities to encourage best management practices for operations; ie: disposal of hazardous wastes.</p>	<p>Issue recognized.</p> <p>Standard Terms and Conditions of Water Licence - Communities O & M plans should be reviewed annually and any updates to be submitted to IWB with Annual Report submissions.</p> <p>2018 – all O & M Plans – Spill Cont Plan – Haz Waste Mgmt Plan, etc must be reviewed, revised and/or updated on an annual basis and submitted with annual reports as per WL Terms and Conditions</p>
8	<p>Difficulty in meeting changing licence terms and conditions;</p> <p>Should be standardized terms and conditions</p>	IWB	<p>National Standards and CCME Guidelines change over time;</p> <p>IWB and licence holders must comply as new standards are identified;</p> <p>Site testing, what other parameters should the IWB be considering – ie: metals are being included on some licenses; National Wastewater Systems Effluent Regulations (WSER) and other testing parameters under</p>	<p>Ongoing – NWT/ Nunavut WSER grandfathered until research is finalized and timelines for the breakdown of effluent for northern climates are identified.</p> <p>Only community that would be affected by new WSER in ISR will be Tuktoyaktuk – communities that release more than 100m³/day. (not in effect as of 2017)</p>

			<p>consideration.</p> <p>Municipal Wastewater Effluent Standards – 5-year moratorium for Northern communities to complete research – Dalhousie U provided recommendations for effluent standards for lagoons, wetlands, etc.</p>	<p>Northern performance standards – research being completed in Nunavut/NWT to determine acceptable standards and levels.</p> <p>No (2017) set standards approved to date and the current IWB terms are valid.</p> <p>IWB Briefing Note distributed during 2017 workshop: Oil and Grease vs Total Petroleum Hydrocarbons as a parameter for municipal water licences.</p> <p>2018 – Dalhousie completed research project for Nunavut in Jan 2017 Waste Sewage Effluent Regulations – no changes since last update 2017 EC – slowly progressing – process should begin again soon</p>
9	<p>Competing priorities for community personnel; Not enough coordination between government departments – uses up limited community personnel; Regional or inspection staff work with community workers to identify outstanding issues and work with Hamlet to resolve them.</p>	ENR	<p>GNWT ENR and Lands Inspectors - joint effort to coordinate inspections together when possible; H & SS does inspections twice yearly (water plant) for drinking water only which includes public buildings.</p>	<p>GNWT - Lands does not conduct municipal inspections. ENR is responsible for inspections – once a year.</p> <p>Value in coordinating inspections with H & SS – also could share inspection reports with H & SS.</p> <p>Sachs Harbour/Tuktoyaktuk: ENR to follow up to obtain samples from old waste site outflow after snow melt before July (Sachs) and old Imperial Oil Limited waste site (Tuk).</p> <p>IWB waiting for GPS location from Hof Tuk to provide to IOR – area of concern will be included in IOR reclamation program for Tuk Base.</p> <p>Note: 2017 update - Waste sites on Commissioners Land are on MACAs contaminated waste site list (all communities in ISR are on list) and funding is being sought to install ground water monitoring wells at the sites and within new sites - Tuk completed during 2016 (groundwater sampling only). Sachs is on the list when \$ become available.</p>

				<p>2018 – Groundwater Monitoring Wells (GMW) will be installed in Sachs at new dump and old dump sites. Samples from the GMW will be collected on an annual basis by contractor, other dump sites, buried hazardous waste, etc (MACA will follow up).</p>
10	Regional coordination of waste removal from communities.	ENR/MACA/ Hamlet/NWTAC	<p>Should be completed during capital planning; Some hazardous waste removal funding – Clean up/Clean Start – ENR/MACA/NWTAC trying to get funds from Federal government to assist; ENR – funding for recycling programs.</p>	<p>NWTAC ED Sarah Brown working with MACA and ENR to develop a plan for waste removal from the communities – discussions ongoing.</p> <p>ENR recycling funding on hold until 2016 budget approvals.</p> <p>Established process to remove all hazardous wastes – permits, licences, etc. High cost of removal is an issue. Sachs Harbour has an incinerator to burn hydrocarbons in the dump. 2017 Covered under existing regulations (waste oil burning) – link on ENR Website.</p> <p>2017 Update - Territorial govt has regulations with regard to the burning of waste hydrocarbons – Air Quality Regulatory Framework proposed. ENR update – in progress – plan in place. MACA update – to be brought to the Intergovernmental Technical Committee – no funding available for communities to remove Hazardous Waste from each of the communities. Tuk has been removing hazardous waste from their landfill – batteries have been removed and in process of removing waste oil and drums (Waste Reduction and Recycling Program).</p> <p>2018 – Air Regulatory Framework – amendment to EPA to allow for Air Regulations –</p>

				ENR – has Used Oil and Waste Oil Regulations.
11	Identify new sources of funding when they become available.	MACA/ENR/ H & SS	Government Departments advertise and make sure NWTAC/LGANT are made aware of funding that is available; Put in newsletters and distributed to communities.	<p>LGANT website www.lgant.com No new funding to date – when funding comes available will advertise – LGANT/NWTAC – MACA Regional Superintendent will advise communities.</p> <p>2017 Update – Community Water and Sewer Funding O & M – additional small portion for Solid Waste Disposal Facility to do O & M at SWDF. MACA to provide formula to SAO's as to how funding is calculated for each community.</p> <p>2018 – Communities can use existing funding from other O & M funds – for training, etc.</p>

Action Items Completed

	Issue	Responsible Party	Action from Feb 2015 Workshop	Action Completed as per Feb 2017
1	<p>Emphasize importance of water and Municipal Wastewater Effluent (MWWE) management to senior community officials and leadership;</p> <p>Assistance in prioritizing the importance of solid waste management – encouraging councils and leadership to increase the profile of water and waste management as an important municipal function;</p> <p>Influence Community Council priorities.</p>	MACA/ENR/ H&SS/IWB	<p>All Departments to consider presentation of roles and responsibilities document at Northwest Territories Association of Communities (NWTAC)/Local Government Administrators of Northwest Territories (LGANT) and Hamlet or community meetings – (Water and Wastewater Management);</p> <p>Raise awareness of water/wastewater at mayor/council level;</p> <p>IWB assist in building capacity at community level through community meetings; NWTAC – share information at Annual General Meeting; LGANT – include Water and Waste</p>	<p>Mayors participating in the workshops.</p> <p>SAO's to contact ED Eric Bussey – LGANT and NWTAC ED Sarah Brown to discuss these issues at the next meetings.</p> <p>Mayors can influence and direct policy.</p> <p>IWB to consider additional meetings with Hamlets to discuss water licence terms and conditions after issuance or renewal.</p> <p>Distribution of Roles and Responsibilities document to NWTAC/LGANT.</p> <p>2017 - NWTAC has a copy of document – IWB will send to LGANT</p>

			Management presentations at next LGANT meetings.	Acknowledged - Completed.
2	<p>Lack of application forms and management plan templates;</p> <p>Share best practices, management plans, forms, checklists; etc;</p> <p>Lack of design templates, operation and maintenance guidelines and best practices;</p> <p>Share information and experiences, best management practices.</p>	IWB/MACA/ ENR/ Mackenzie Valley Land and Water Board (MVLWB)	<p>IWB application forms and guidelines available on website;</p> <p>IWB will produce a list of all forms, questionnaires, guides, templates for distribution to communities;</p> <p>Annual Report and Spill Contingency Plan templates will also be available on IWB website;</p> <p>Various guides also available on Gwich'in Land and Water Board (GLWB) and MVLWB Website;</p> <p>MVLWB in partnership with ENR and MACA are developing O & M Guidelines – both design and siting for disposal facilities; IWB will add to distribution list when template finalized.</p>	<p>IWB has circulated all template information to SAO's after 2015 workshop – templates on website.</p> <p>Additional templates will be posted on IWB website as developed.</p> <p>IWB mirroring MVLWB/MACA O & M Templates; Spill Contingency Plan template; Hazardous Waste Management Plan Template to be posted to the IWB website upon completion of website redesign.</p> <p>IWB website to include links to ENR/GNWT Guidelines – Issue Acknowledged – Completed.</p>
3	Lack of coordinated inspections – municipal and territorial governments -	ENR/Hamlet	Political sensitivity – requires more communication with communities regarding compliance with Water Licences.	<p>Enforcement and compliance – ENR conducting inspections and addressing issues and working with communities. Inspection reports distributed to Hamlet, IWB and on public register.</p> <p>2017 Update - H&SS is receptive of coordinating joint community visits with ENR.</p> <p>IWB to invite H&SS/ENR on the annual community visit during WL renewal.</p> <p>Issue Acknowledged – Completed.</p>
4	Environmental conditions – wind, snow, climate change	Hamlet	Management plans should include adaptive management processes to consider these circumstances.	Confirmed - Acknowledged
5	Lack of locally available granular material	Hamlet	Issue is largely cost and not availability; Identify source options.	Confirmed - Acknowledged
6	Provide answers to 'Frequently Asked Questions (FAQ's)' and make written resources readily available.	IWB	FAQ's on website – will produce a separate municipal water licences FAQ section on IWB website.	<p>IWB looked at FAQ's and the FAQ's are general and not specific to just municipal.</p> <p>FAQ's are on the IWB website.</p> <p>Acknowledged - Completed</p>

7	Need for pre-printed sample labels, shipping documents and laboratory instruction sheets.	Taiga	Taiga will provide to Hamlets – make contact by May 31, 2015.	Taiga will send to SAO's upon request – SAO's to contact Bruce Stuart – TAIGA Acknowledged – Completed.
8	Expand funding availability to include management plan development.	MACA/ENR	Hamlet receives Water and Sewer/O & M funds in annual budgets; Hamlet must use own funds provided in budgets; O & M Templates being designed to assist municipal governments to finalize management plans – IWB sent MVLWB link to Senior Administrative Officers (SAOs) – April 22, 2015.	Upon completion, IWB will review and revise as appropriate for ISR municipal use and post on IWB website. 2017 – IWB provided memory sticks with all required management plan templates to SAO's. MACA 2017 Update - funding is available as part of the community capital planning budget to produce O & M plans (for initial O & M plans). Acknowledged – Completed
9	Local Health representative assist in drinking water and wastewater sample collection.		Not local health representative responsibility.	H & SS does not assist in sampling but will provide advice on how to sample – Issues – H & SS needs a minimum of four Drinking Water samples per month from each Hamlet. Samples should be sent Monday to Wednesday. Do not send on Thursday or Friday because the Lab is not open on the weekends to do the tests after the 24-hour incubation required before testing. Sachs Harbour and Tuktoyaktuk are the only Hamlets without a Colilert unit. If a Hamlet wants a Colilert unit, Hamlet should contact H & SS to obtain one. Logs need to be kept up to date – some samples need to be done daily and logs updated daily. Annual inspections of logs are completed. Colilert system replaces samples having to be sent to Inuvik. H & SS will go over unit with operator when in community – MACA has a video for operators to view for training purposes. 2017 Update – H & SS follow up with communities that request colilert. Acknowledged - Completed.
10	Local Health representative assist in increasing worker safety and	Hamlet IWB	Hamlet SAO and Foreman responsibility to ensure workplace safety of employees;	Sachs Harbour- Issue with regard to unknown substance spilled on garage floor

	personal protection awareness.		IWB will request clarification of Workplace Safety and Compensation Commission (WSCC) role and responsibilities at municipal level and will include in Roles and Responsibilities document.	– no process in place as to where to find out what it is and who to send sample to. Taiga to send bottles to Sachs Harbour (glass bottles) to address and facilitate sample collection of unknown substance on garage floor. Sachs Harbour employees must be familiar with Spill Contingency Plan for safety purposes and proper procedures for addressing unknown spills. 2017 – Acknowledged - Completed.
11	Submit to the IWB for approval – map or drawings indicating the location of all SNP sampling stations.	Hamlet	IWB distributed maps of SNP locations from 2011 workshop (provided by ENR) to each community SAO – April 22, 2015.	IWB to resend maps to SAO's to confirm locations. 2017 Update: SAO's need to send updated maps to the IWB as updated.
12	Post signs in appropriate areas to inform public of Water Supply and Solid Waste Disposal Facilities	Hamlet	Concern identified in inspection report; IWB/ENR ie: to communicate with community reps, assist them in identifying proper areas to post signage, etc; WRO will provide inspection schedule when developed.	Requirement of water licence – hard to maintain signs – Bulk purchase program – signs for region can be purchased (NWTAC) or made locally. Acknowledged - Completed
13	Maintain the waste disposal facilities to the satisfaction of an Inspector <ul style="list-style-type: none"> • Honey bags at the Bagged Toilet Waste Area; • Solid wastes at the Solid Waste Area; • Contain contaminated snow in such a manner as to minimize migration into any waters; • Segregate and store hazardous waste in a designated contained temporary storage area; • No openly burning of solid or liquid waste – except paper products, paperboard packaging and untreated wood; 	Hamlet	ENR – conducts annual Inspections (or more frequently if warranted) and identifies issues; Communities must keep the profile high regarding the maintenance of the Solid Waste Disposal Facilities.	ENR – annual inspection – submits inspection reports to SAO, Mayors – with recommendations. ENR encourages Hamlet operators work with him to come into compliance – even by phone, email, community officer, etc. Acknowledged - Completed

	<ul style="list-style-type: none"> No unauthorized wastes associated with the Municipal undertaking to enter any waters. 			
14	Submit to the IWB for approval a Spill Contingency Plan in accordance with 2007 AANDC guidelines.	Hamlet	IWB to post Spill Contingency Plan template on website; Copy emailed to each SAO's – April 22, 2015.	Acknowledged - Completed
15	Submit to the Board for approval a Sewage Waste Disposal Facility Operations and Maintenance Plan.	Hamlet	IWB will get a current copy from MVLWB website, Review and post on IWB website and send to each of the SAO's.	Acknowledged - Ongoing
16	Submit to the Board for approval an updated Municipal Solid Waste Disposal Facility Operations & Maintenance (O & M) Plan.	Hamlet	IWB will get a current copy from MVLWB website, review and post on IWB website and send to each of the SAO's.	Acknowledged - Ongoing
17	Licensee shall implement the Spill Contingency Plan, Sewage Waste Disposal Facility O & M Plan and the Municipal Solid Waste Disposal Facility O & M Plan as and when approved by the Board.	Hamlet	IWB need plans submitted to approve prior to implementing; Community to develop and provide education/ public awareness programs.	Acknowledged - Ongoing