



First Nations (Alberta) Technical Services Advisory Group

"Be a leader with integrity by cooperatively providing a safe sustainable future for First Nations through quality technical services."

Drinking Water Advisories Workplan **TSAG Conference Nov. 1, 2011**



DWA Work Plan

- INAC, Health Canada and TSAG developed the DWA Work Plan in November 2010
- The purpose of the DWA Work Plan is to eliminate long standing DWA's on individual systems
- To begin, thirteen systems in seven First Nations were chosen
- In the end, ten systems in five First Nations were completed

DWA – Drinking Water Advisory

DWA Work Plan

- A draft Work Plan, schedule, budget and list of long standing DWA's was developed and submitted for review and approval
- INAC funding was approved by the Regional Investment Management Board (RIMB) in support of this initiative
- Work performed by Circuit Riders, Environmental Health Officers and First Nation personnel
- HC provided current and historical health data on each DWA system

DWA Work Plan

- TSAG and First Nation personnel provided current and historical operations data on each DWA system
- Upon discussion, it was agreed TSAG would act as the main contractor for this project with the objective of receiving value for provided funding, to centralize activities and minimize administration
- Winter prevented the Team from working on northern systems, so a formal change management process was initiated to add other DWA systems where work could be completed before the end of FY 10/11

DWA Work Plan

- December 9, 2010 – INAC, HC and TSAG met to discuss roles and responsibilities and developed a short list of DWA systems
- Considerations included:
 - Some systems would be addressed for less cost
 - Some systems would be addressed with higher than estimated cost
 - Scope change estimates were provided and change orders developed
 - Short time line ~ 3.5 months to complete
 - Time of year impacted schedule

DWA Work Plan

- EHO's were involved in site visits with the CRT's by providing:
 - Current and historical data on each system's history
 - Provided recommendations on DWA removal
 - Took chemical and bacteriological samples
 - Awaiting results to remove DWA
 - Ongoing follow up with respective First Nation personnel

DWA Work Plan

- December 21, 2010 – TSAG submits their DWA Work Plan Proposal with Class "D" cost estimates
- Final costs to be confirmed upon individual site inspections, scope definition and completion of work
- Weekly BWA meetings are held with INAC, HC and TSAG where issues and work progress were discussed
- February 4, 2011 – Draft report submitted to INAC

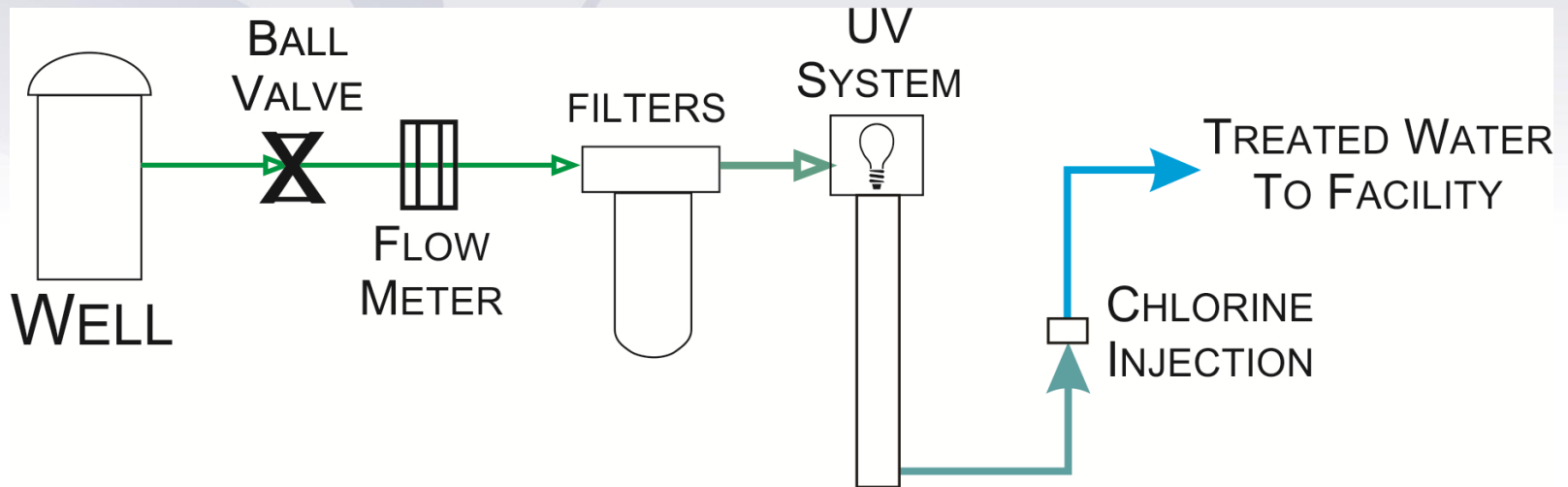
DWA Work Plan – Summary

SITE	DESCRIPTION	DATE SET	DATE LIFTED	REMEDIAL ACTION
Stoney - Morley PW/EMS	Water provided via well.	October 20, 2006	May 20, 2011	Pre-filter / UV System
Stoney - Morley CAPS Well	Water provided via well.	October 30, 2008		Shock Chlorinate well, flush distribution
Stoney - Morley Carpentry Shop	Water provided via well.	November 7, 2008		Work to be under taken in FY 2011/12
Stoney - Morley Bearspaw Arena	Water provided via well.	January 15, 2008	May 20, 2011	Clean Cistern, Shock Chlorinate well, flush distribution
Beaver FN – Child Lake Band Office	Water Cistern	September 19, 2009		Work to be under taken in FY 2011/12
Beaver FN – Child Lake Multi-purpose Bldg	Water Cistern	September 19, 2009		Work to be under taken in FY 2011/12
Dene' Tha - Bushe River, North Peace Tribal Council	Water Cistern	June 19, 2008		Work to be under taken in FY 2011/12
Dene' Tha Bushe River, Youth Treatment Centre	Water Cistern	June 5, 2010		Work to be under taken in FY 2011/12
Blood Tribe - Youth Ranch	Water provided via well.	June 26, 2006	April 20, 2011	Flow Control Valve, Flowmeter, Chlorine Injection, Flush System
Sunchild West Pumphouse	Water provided via well.	August 21, 2009		Chlorine Injection System
Frog Lake - NADAAP Center	Water Cistern	March 9, 2010	May 20, 2011	Clean Cistern, Shock Chlorinate well, flush distribution
Tsuu Tina - Peacekeepers Lodge	Water provided via well.	October 10, 2006		Pre-filter / UV System
Tsuu Tina - Harry Dodging Horse Arena	Water provided via well.	October 10, 2006	June 16, 2011	Pre-filter / UV System
Sunchild - Blue Pumphouse	Water provided via well.	December 10, 2010		Chlorine Injection System
Kehewin - WTP	Water provided via well.	April 23, 2011		Repair header from Gladwell to TW Reservoir

Blood Tribe Youth Ranch

- Advisory set June 26, 2006
- Installed a flow meter and gate valve to regulate flow and optimize the effectiveness of existing Ultraviolet treatment unit
- Installed the chlorine injection pump post UV system
- Community maintenance personnel attended and received Small System certification for this new system
- Completed system modification, commissioned and placed into operation on March 10, 2011
- Lifted Drinking Water Advisory on April 20, 2011

Blood Tribe Youth Ranch – Continued



Tsuu T'ina Peacekeeper

- DWA put into place on October 10, 2006.
- Numerous attempts were made to shock chlorinate Well, but were unsuccessful
- Researched the potential for an ultraviolet treatment process, but discovered a smaller, more advanced UV system which, when accompanied with pre-filtration, provides adequate treatment of groundwater
- TSAG installed this particular UV system and chlorine injection system in the Tsuu T'ina Peacekeeper building
- Currently fine tuning system, it is anticipated the DWA will be lifted in the near future.

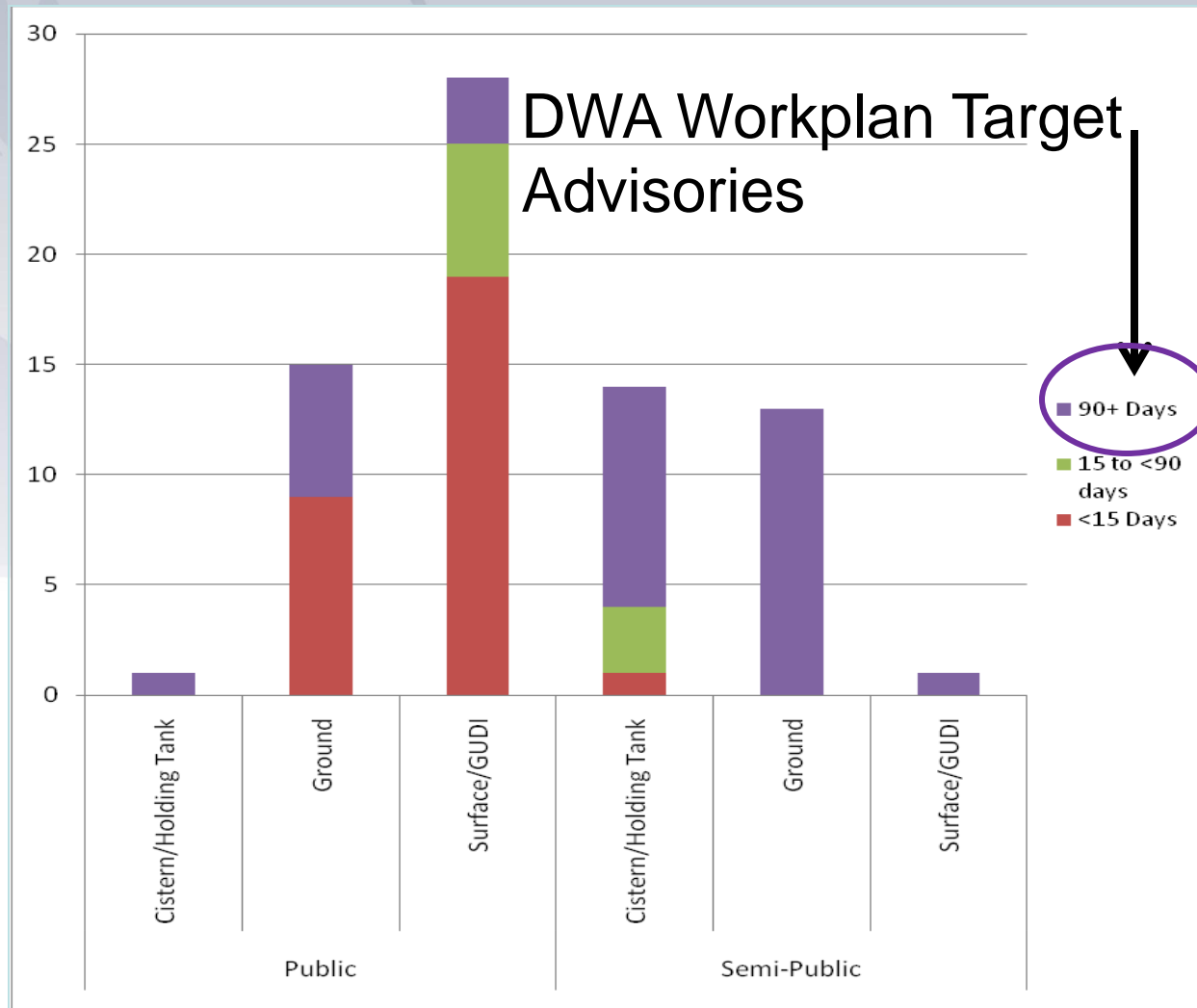
Drinking Water Advisory Update

Previous Years DWA's

Year	Number of Drinking Water Advisories
2004-2005	54 (in 21 communities)
2005-2006	54 (in 23 communities)
2006-2007	51 (in 23 communities)
2007-2008	52 (in 22 communities)
2008-2009	50 (in 27 communities)
2009-2010	41 (in 24 communities)
2010-2011	72 (in 31 communities)

Source , Health Canada CNPHI DWA Database

2010-2011 DWA Duration by Type



Source , Health Canada CNPHI DWA Database

Current DWAs in Effect as of Nov 1, 2011 (2011-2012)

- There are currently 32 DWAs in place in AB First Nations
- 11 are in Public Water Systems (larger community systems -may only be portions of the system)
- 21 in Semi-Public Systems (wells or cisterns serving public buildings)
- 10 of these are on the DWA workplan for this year

DWA Work Plan – Future

- The success of this small initiative is recognized by many
- As a result, INAC is proud to announce an additional \$60K approval by RIMB to continue the DWA Work Plan during FY 11/12
- INAC, HC and TSAG work on a list of DWA affected systems, scope of work, schedule and cost estimates with a goal of further eliminating numerous Drinking Water Advisories.

DWA Work Plan

- In conclusion, thanks and appreciation are extended to the many individuals from INAC, HC, TSAG and First Nation's who contributed toward the success of this year's DWA Work Plan
- Finally, I look forward to the upcoming and ongoing Team effort, the execution of this years DWA Work Plan and how your work will reduce and or eliminate long standing DWA's
- Thank you



Questions???