

TERRITORIAL GRANULAR STRATEGY

TERRITORIAL GRANULAR RESOURCE FORECAST

June 2011 UPDATE



Prepared by:

Interdepartmental Granular Committee:

**Department of Public Works and Services
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TERRITORIAL GRANULAR RESOURCE FORECAST SUMMARY TABLES

There are two summary tables for each region. One table recaps multi-user granular acquisition opportunities specific to each community that can be used by municipal governments and other potential stakeholders to coordinate granular supply operations and achieve economies of scale for the procurement of granular materials. The second table provides territorial and community granular demand information to assist Territorial Governments in the planning and acquisition of granular materials. Tables are continually updated to reflect current information as it becomes available. This update is current as of June 23, 2011.

- In Tables 1, 3, 5, 7 and 9, the GNWT departments and NWT HC that will require gravel for Capital Projects and community Resource and Infrastructure Development Opportunities are listed under each year from 2011 – 2014. Those users that may require gravel for proposed work are marked with an ‘X’ under each year. Using *Table 3* and the community of *Colville Lake* as an example in 2011/2012, the settlement has an opportunity to coordinate and acquire municipal granular requirements (if any) with DOT.
- In Tables 2, 4, 6, 8, and 10, a brief summary section on the granular supply status specific to each community is shown followed by granular quantity estimates for community capital projects (CCP), combined GNWT project needs (capital and/or O&M) and the NWT HC requirements, under each year from 2011 – 2014. Using *Table 2* and the community of *Aklavik* for 2011 through 2014, bulk volume granular demand quantity estimates are given for proposed community capital projects (CCP), the GNWT and the NWT HC. In some cases, a community may not require granular material for capital or O&M projects in a specific year but should still consider for future requirements, collaborating with those stakeholders that do, so that economies of scale will provide a more cost-effective supply .
- By the very nature of the capital planning process, changes in the GNWT Infrastructure Acquisition Plan and municipal government priorities will impact on the current participation of any stakeholder and the estimated granular quantities shown in the tables for any given year.
- The *Resource Infrastructure Development Opportunities (RIDO)* columns indicate a gravel requirement related to proposed resource and infrastructure project (territorial) funding and/or Building Canada Plan (BCP) projects.
- All granular volume estimates represent total bulk volume quantities and are in cubic metre (m³).

TABLE 1: INUVIK REGION USER ACQUISITION FORECAST

RIDO = Resource and Infrastructure Development Opportunities including Building Canada Plan (BCP) Projects.

COMMUNITY	2011/2012							2012/2013						2013/2014										
	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO
Aklavik	X					X		X	X						X	X	X							X
Tuktoyaktuk	X					X	X	X	X	X							X					X		
Sachs Harbour							X								X									
Ulukhoktok							X		X		X													
Paulatuk											X				X		X							
Inuvik	X	X	X		X	X	X	X	X	X	X			X	X		X	X						
Tsiigehtchic			X																					
Fort McPherson	X					X									X		X							

TABLE 2: INUVIK REGION GRANULAR DEMAND ESTIMATE FORECAST

CCP = Community Capital Projects including Building Canada Plan (BCP) Projects.

COMMUNITY	Summary			2011/2012				2012/2013				2013/2014			
	Resupply	Current Supply	Future Issues	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL
*Aklavik	Seasonal	Insufficient	Yes	1050	*10000	1000	12050	2500	*10600		13100	8000	*10000		18000
*Tuktoyaktuk	Seasonal	Insufficient	Yes	4500	*400600	1600	406700	7800	Ongoing		7800	!11500	Ongoing	3000	14500
Sachs Harbour	Seasonal	Marginal	Yes	3200	+5000		8200		+3100		3100				
Ulukhoktok	Seasonal	Sufficient	No	2000	600		2600	2500	4600		7100	875			875
Paulatuk	As & When	Marginal	Yes	3050			3050	4050	1100		5150	1200	6000		7200
*Inuvik	As & When	Sufficient	Yes	*9100	10100	1000	20200		25550	2000	27550		20000		20000
Tsiigehtchic	As & When	Sufficient	No	7925			7925	1200			1200	2750			2750
Fort McPherson	As & When	Sufficient	No	5750	**5000	1000	11850	2200	600		2800	3375	1100		4475

*RIDO opportunities for community granular supply / Tuk road to Source 177 / Inuvik – MGP / Aklavik - Road to Richardson Mtn (gravel quantities TBD)

**DOT/Airports- runway extension !Includes shoreline erosion rip-rap and SWS requirements. +Mostly Remediation Cleanup - PWS

TABLE 3: SAHTU REGION USER ACQUISITION FORECAST

RIDO = Resource and Infrastructure Development Opportunities including Building Canada Plan (BCP) Projects.

COMMUNITY	2011/2012							2012/2013							2013/2014										
	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	
Colville Lake	X								X					X		X	X								
Fort Good Hope						X		X						X		X									
Norman Wells	X		X	X		X		X	X					X		X	X		X						
Deline	X					X			X																
Tulita						X	X	X						X	X	X								X	

TABLE 4: SAHTU REGION GRANULAR DEMAND ESTMATE FORECAST

CCP = Community Capital Projects including Building Canada Plan (BCP) Projects.

COMMUNITY	Summary			2011/2012				2012/2013				2013/2014			
	Resupply	Current Supply	Future Issues	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL
Collville Lake	As & when	Sufficient	No	7250	**35000		42250	2950	2500	500	5950		2500		2500
*Fort Good Hope	As & When	Sufficient	No	4575		1750	6325	5350		400	5750	2050			2050
*Norman Wells	As & When	Sufficient	No	3750	3250	200	7200	700	1100	2000	3800		1600		1600
Deline	As & When	Sufficient	Yes	3700	1500	2000	7200	8000	7500		15500	9125	1250		10375
*Tulita	Seasonal	Insufficient	Yes	3200	600	1800	5600	2650	^5000	1400	9050	3200	^2500		5700

***RIDO opportunities for community supply – FGH, Tulita, Norman Wells - Mackenzie Gas Project (MGP) / Norman Wells, Tulita includes BCP Project granular quantities ** DOT/Airports – Airport Relocation Project 30000 crushed 2011/12 ^Tank farm increase capacity project**

TABLE 5: DEH CHO REGION PROPOSED USER ACQUISITION FORECAST

RIDO = Resource and Infrastructure Development Opportunities including Building Canada Plan (BCP) Projects.

COMMUNITY	2011/2012								2012/2013						2013/2014									
	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NWTHC	PWS	RIDO
Wrigley	X								X						X									
Fort Simpson			X		X	X		X	X	X														
Nahanni Butte	X								X													X		
Fort Laird	X								X															
Trout Lake	X		X						X						X									
Jean Marie River	X						X	X	X				X				X							
Fort Providence	X		X	X					X	X														
Kakisa					X				X								X							

TABLE 6: DEH CHO REGION GRANULAR DEMAND ESTIMATE FORECAST

CCP = Community Capital Projects including Building Canada Plan (BCP) Projects.

COMMUNITY	Summary			2011/2012				2012/2013				2013/2014			
	Resupply	Current Supply	Future Issues	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL	CCP	GNWT	NWTHC	TOTAL
*Wrigley	As & When	Sufficient	No	1500	!10000		11500	3000	500		3500	4000			4000
*Fort Simpson	As \$ When	Sufficient	Yes	2500	2500	800	5800	1500	7000		8500	1000	+14250		15250
Nahanni Butte	Seasonal	Insufficient	Yes	9100	!!4500		13600	6100	!!3000		9100			1500	1500
Fort Laird	As & When	Sufficient	No	23800	**10000		33800	9000	**TBD		9000		500		500
Trout Lake	Seasonal	Insufficient	Yes	1100	^26000		27100	8000	1000		9000	1350			1350
*Jean Marie River	As & When	Insufficient	Yes	1200	***7000	500	8700	800	***2100		2900		***500		500
*Fort Providence	As & When	Marginal	Yes	3500	3600		7100	1100			1100	850	1100		1950
Kakisa	As & When	Marginal	Yes	2750	800		3350	250			250		++13000		13000

*RIDO opportunities for community supply - MGP / Fort Providence Deh Cho Bridge +DOT Hwy 1 Km 517 O&M - 10000 m³ 20mm (46 km from FS) ++DOT O&M Kakisa Access Road 12.9 km ^Mostly DOT Airport Relocation quantities ** DOT Hwy 7 Km 47 10000 m³ 20mm !DOT Hwy 1 O&M - km 651.1 - 10000 m³ 20mm - 42 km from Wrigley !!DOT- NB winter 23 km access road upgrade from Hwy 7 ***Mostly DOT O&M JMR Access Road - 27 km & PWS WTB

TABLE 7: NORTH SLAVE REGION USER ACQUISITION FORECAST

RIDO = Resource and Infrastructure Development Opportunities including Building Canada Plan (BCP) Projects.

COMMUNITY	2011/2012							2012/2013							2013/2014									
	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO
Bechoko	X			X					X								X		X					
Whati						X											X							
Gameti	X					X			X															
Wekweti	X								X											X				
Lutsel K'e						X				X			X											
Dettah	X								X															

TABLE 8: NORTH SLAVE REGION GRANULAR DEMAND ESTIMATE FORECAST

CCP = Community Capital Projects including Building Canada Plan (BCP) Projects.

COMMUNITY	Summary			2011/2012				2012/2013				2013/2014			
	Resupply	Current Supply	Future Issues	CCP	GNWT	NW/THC	TOTAL	CCP	GNWT	NW/THC	TOTAL	CCP	GNWT	NW/THC	TOTAL
*Behchoko	As & When	Marginal	Yes	12000	*4100		16100	11725	*7500		19225	8750	*4000		12750
+Whati	As & When	Sufficient	No	8325		700	9025	2650			2650	2000	**2500		4500
+Gameti	As & When	Sufficient	No	2950		500	3450	3900	+5000		8900	2350		2350	
+Wekweeti	Seasonal	Insufficient	Yes	+4450	+8500		12950	5650	1500		7150	5500	1100		6600
Lutsel K'e	Seasonal	Insufficient	Yes	5650		1000	6650	5450	500	500	6450	1500		1500	
Dettah	As & When	Sufficient	No	6600	! Ongoing		6600	4350	!TBD		4350	2200		2200	

*DOT – Mostly Rae/Access road 10.5 km ongoing 2014/15 +DOT - Tlicho winter road upgrade/realignment project/Tlicho Community Gravel Partnership / Wekweeti opportunity with BCP for coordinating granular requirements for new road/bridge !DOT - Dettah access road reconstruction 2011/2013 **Tank Farm Capacity Increase

TABLE 9: SOUTH SLAVE REGION USER ACQUISITION FORECAST

RIDO = Resource and Infrastructure Development Opportunities including Building Canada Plan (BCP) Projects.

COMMUNITY	2011/2012								2012/2013								2013/2014							
	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO	DOT	EC&E	ENR	H&SS	IT&I	NW/THC	PWS	RIDO
Enterprise	X				X				X								X							
Hay River	X						X		X	X	X				X									
HR Reserve	X								X								X							
Fort Resolution									X															
Fort Smith	X	X		X			X		X		X						X			X				

TABLE 10: SOUTH SLAVE REGION GRANULAR DEMAND ESTIMATE FORECAST

CCP = Community Capital Projects including Building Canada Plan (BCP) Projects.

COMMUNITY	Summary			2011/2012				2012/2013				2013/2014			
	Resupply	Current Supply	Future Issues	CCP	GNWT	NW/THC	TOTAL	CCP	GNWT	NW/THC	TOTAL	CCP	GNWT	NW/THC	TOTAL
*Enterprise	As & When	Marginal	Yes	2000	2700		4700	1250			1250	3000	1050		4050
**Hay River	As & When	Marginal	Yes	5400	!15000		20400	700	!2500		3200	1100	!!2500		3600
**HR Reserve	As & When	Insufficient	Yes	2050	^2500		4550	1300	^3000		4300		^3000		3000
Fort Resolution	As & When	Sufficient	Yes	2550			2550	875	!!7500		8375	5000	2200		7200
+Fort Smith	As & When	Sufficient	No	2000	2450		4450	1500	11000		12500	1500	5500		7000

*DOT Hwy 1 - km 67 - 130000 m³ pitrun and 20000 m³ 20mm (capital/O&M) - 14 km from Enterprise **DOT Hwy 5/6 Junction O&M Km 8.7 - 10000 m³ 20mm
 +DOT Hwy 5 - km 232 - includes 40000 m³ /about 35 km west of Fort Smith ^DOT HRR Access Road O&M – road upgrade !H&SS - Health Centre Replacement
 !!DOT Remediation/Cleanup