

MILL AREA  
 ESTIMATED WASTE ROCK VOLUME = 165 m<sup>3</sup>  
 UNCERTAINTY IN ESTIMATED WASTE ROCK VOLUME = 199 m<sup>3</sup>  
 ESTIMATED TRENCH VOLUME = 200 m<sup>3</sup>

NOTE: EXCLUDES ALL WASTE ROCK LOCATED WITH TAILINGS OR IMPACTED SOILS. TO BE USED FOR TRENCH BACKFILL WITH PLACEMENT OF TOP COVER NORTH OF AEC, WEST OF AEC18 AND WEST OF AEC5.

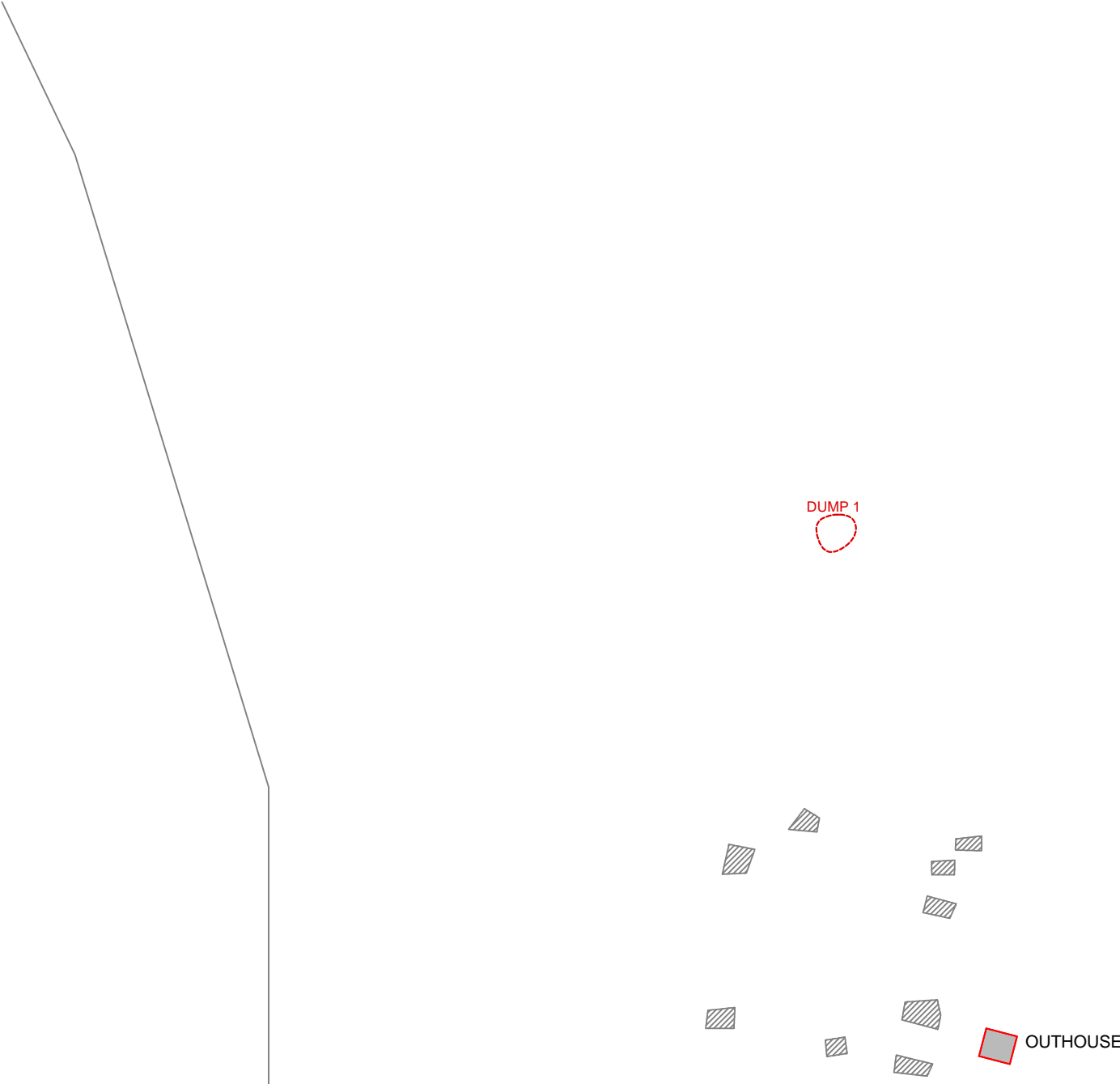
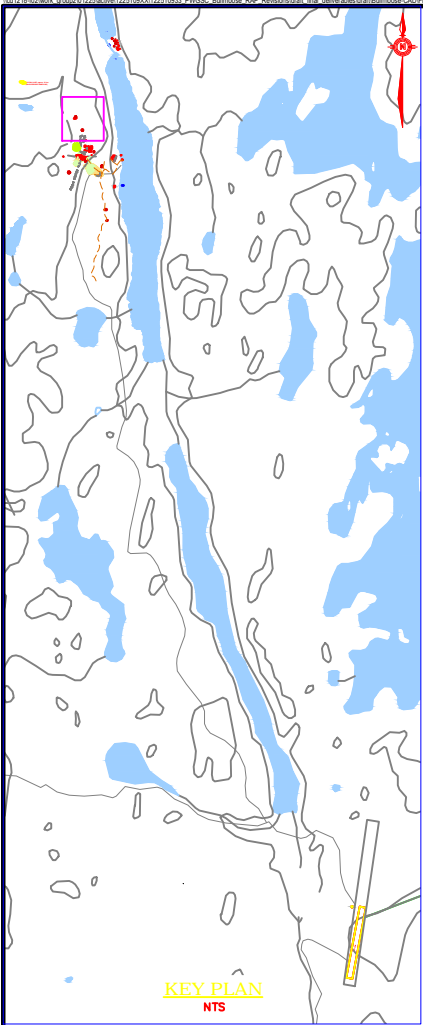
**FINAL**

Scale: 1: 400 (metres)

LEGEND:	
	WATER
	WASTE ROCK (2008)
	WETLAND
	TRENCH
	DUMP
	TAILINGS AREA
	TAILINGS AREA DIFFUSED
	CURRENT STRUCTURE (2008)
	WINTER ROAD
	TRAIL
	GROUND ELEVATION CONTOUR
	AEC
	APEC
	AEC / APEC AREA OUTLINE

 Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada	<b>REMIEDIATION ACTION PLAN FOR 7 ABANDONED MINE SITES, NT</b>				
	<b>RUTH MINE - AREA 1 : ESTIMATED VOLUMES FOR WASTE ROCK &amp; TRENCHES</b>				
	PROJECT No. 122510933 DATE: Mar 2015	OFFICE OTT SHEET No. - of -	DES DW APP - of -	CKD FL APP - of -	REV 0 STATUS 0
				DRAWING <b>FIGURE RM 2-1</b>	





RUTH NON-HAZARDOUS MATERIALS INVENTORY TABLE			
Area	Item	Description	Estimated Quantity
Dump Site 1	Debris Pile	Metal debris	0.6 m <sup>3</sup>
Large Can Dump	Debris Pile	Metal debris	3.0 m <sup>3</sup>

**FINAL**



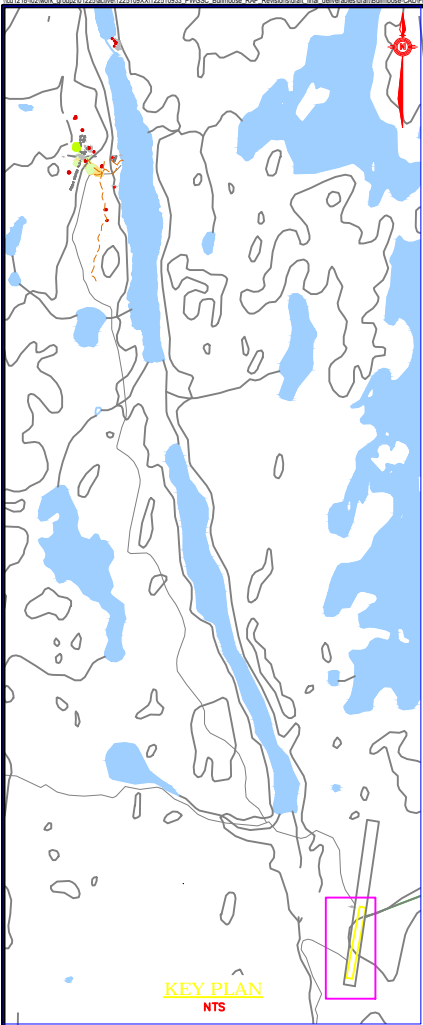
**LEGEND:**

- |                   |                          |             |  |
|-------------------|--------------------------|-------------|--|
| WATER             | DUMP                     | WINTER ROAD | GROUND ELEVATION CONTOUR                     |
| WASTE ROCK (2008) | TAILINGS AREA            | TRAIL       | AEC AREA OF ENVIRONMENTAL CONCERN            |
| WETLAND           | TAILINGS AREA DIFFUSED   |             | APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN |
| TRENCH            | CURRENT STRUCTURE (2008) |             | AEC / APEC AREA OUTLINE                      |



REMEDIATION ACTION PLAN FOR 7 ABANDONED MINE SITES, NT					
RUTH MINE - AREA 2: HAZARDOUS & NON-HAZARDOUS MATERIALS CAMP AREA AND DUMP SITES					
PROJECT No. 122510933	OFFICE OTT	DES DW	CKD FL	REV 0	DRAWING FIGURE RM 3-2
DATE Mar 2015	SHEET No. - of -	DWN APP	LC	STATUS 0	





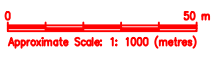
SEPARATOR

RUTH NON-HAZARDOUS MATERIALS INVENTORY TABLE			
Area	Item	Description	Estimated Quantity
Airstrip	Drums	Empty drums	2.0 m <sup>3</sup>

AIRSTRIP

AEC 13

EMPTY DRUMS



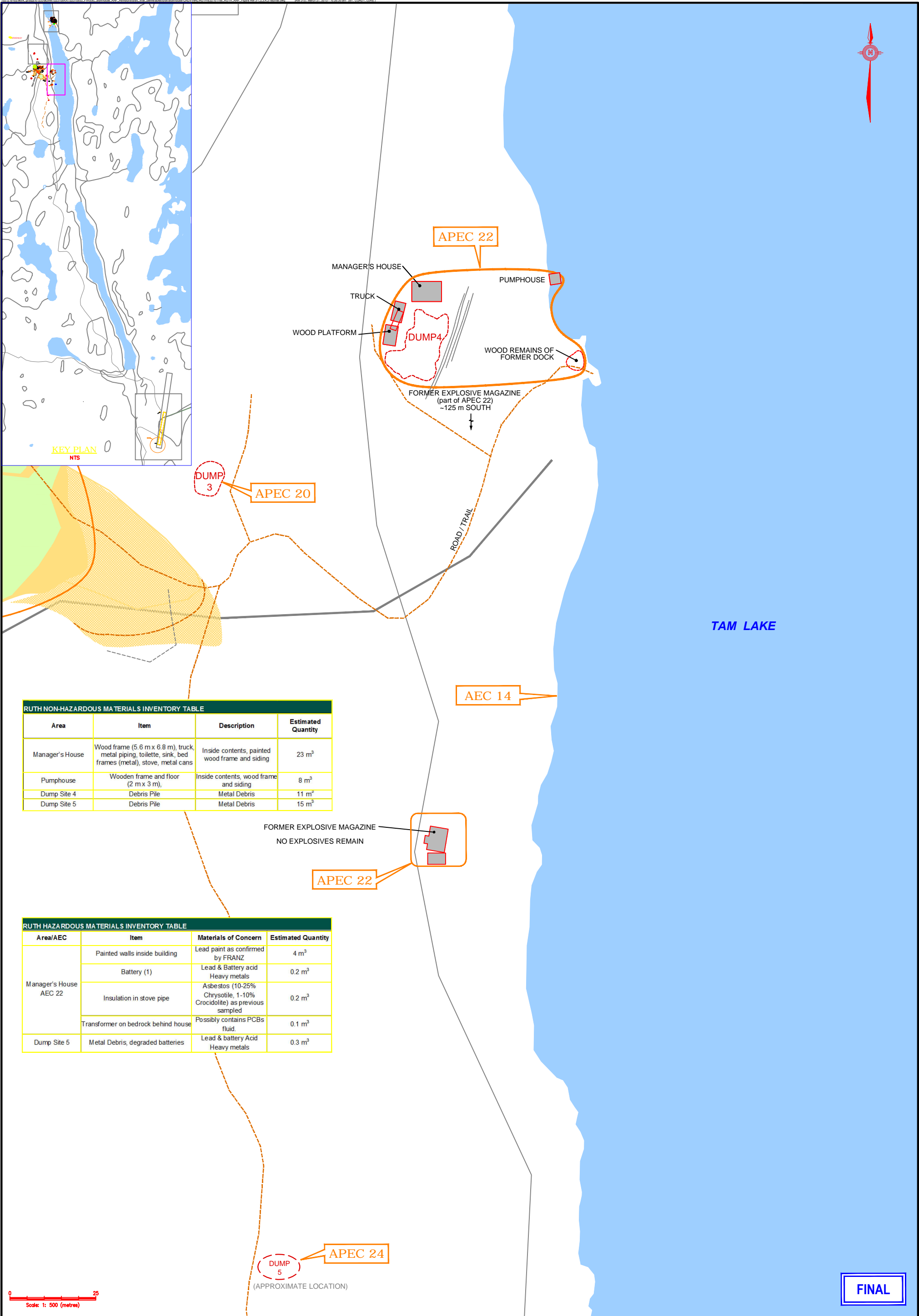
**FINAL**

LEGEND:

WATER	DUMP	WINTER ROAD	GROUND ELEVATION CONTOUR
WASTE ROCK (2008)	TAILINGS AREA	TRAIL	AEC AREA OF ENVIRONMENTAL CONCERN
WETLAND	TAILINGS AREA DIFFUSED		APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN
TRENCH	CURRENT STRUCTURE (2008)		AEC / APEC AREA OUTLINE



REMEDIATION ACTION PLAN FOR 7 ABANDONED MINE SITES, NT					
<b>RUTH MINE - AREA 4: HAZARDOUS &amp; NON-HAZARDOUS MATERIALS AIRSTRIP</b>					
PROJECT No. 122510933	OFFICE OTT	DES DW	CKD FL	REV 0	DRAWING FIGURE RM 3-4
DATE Mar 2015	SHEET No. - of -	DWN APP	LC	STATUS 0	



RUTH NON-HAZARDOUS MATERIALS INVENTORY TABLE			
Area	Item	Description	Estimated Quantity
Manager's House	Wood frame (5.6 m x 6.8 m), truck, metal piping, toilette, sink, bed frames (metal), stove, metal cans	Inside contents, painted wood frame and siding	23 m <sup>3</sup>
Pumphouse	Wooden frame and floor (2 m x 3 m)	Inside contents, wood frame and siding	8 m <sup>3</sup>
Dump Site 4	Debris Pile	Metal Debris	11 m <sup>3</sup>
Dump Site 5	Debris Pile	Metal Debris	15 m <sup>3</sup>

FORMER EXPLOSIVE MAGAZINE  
NO EXPLOSIVES REMAIN

RUTH HAZARDOUS MATERIALS INVENTORY TABLE			
Area/AEC	Item	Materials of Concern	Estimated Quantity
Manager's House AEC 22	Painted walls inside building	Lead paint as confirmed by FRANZ	4 m <sup>3</sup>
	Battery (1)	Lead & Battery acid Heavy metals	0.2 m <sup>3</sup>
	Insulation in stove pipe	Asbestos (10-25% Chrysotile, 1-10% Crocidolite) as previous sampled	0.2 m <sup>3</sup>
	Transformer on bedrock behind house	Possibly contains PCBs fluid.	0.1 m <sup>3</sup>
Dump Site 5	Metal Debris, degraded batteries	Lead & battery Acid Heavy metals	0.3 m <sup>3</sup>

Scale: 1: 500 (metres)

**FINAL**

LEGEND:

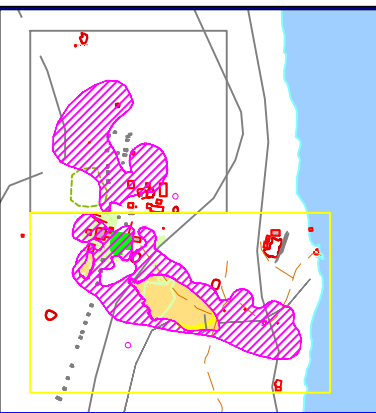
- WATER
- WASTE ROCK (2008)
- WETLAND
- TRENCH
- DUMP
- TAILINGS AREA
- TAILINGS AREA DIFFUSED
- CURRENT STRUCTURE (2008)
- WINTER ROAD
- TRAIL
- GROUND ELEVATION CONTOUR
- AEC
- APEC
- AEC / APEC AREA OUTLINE



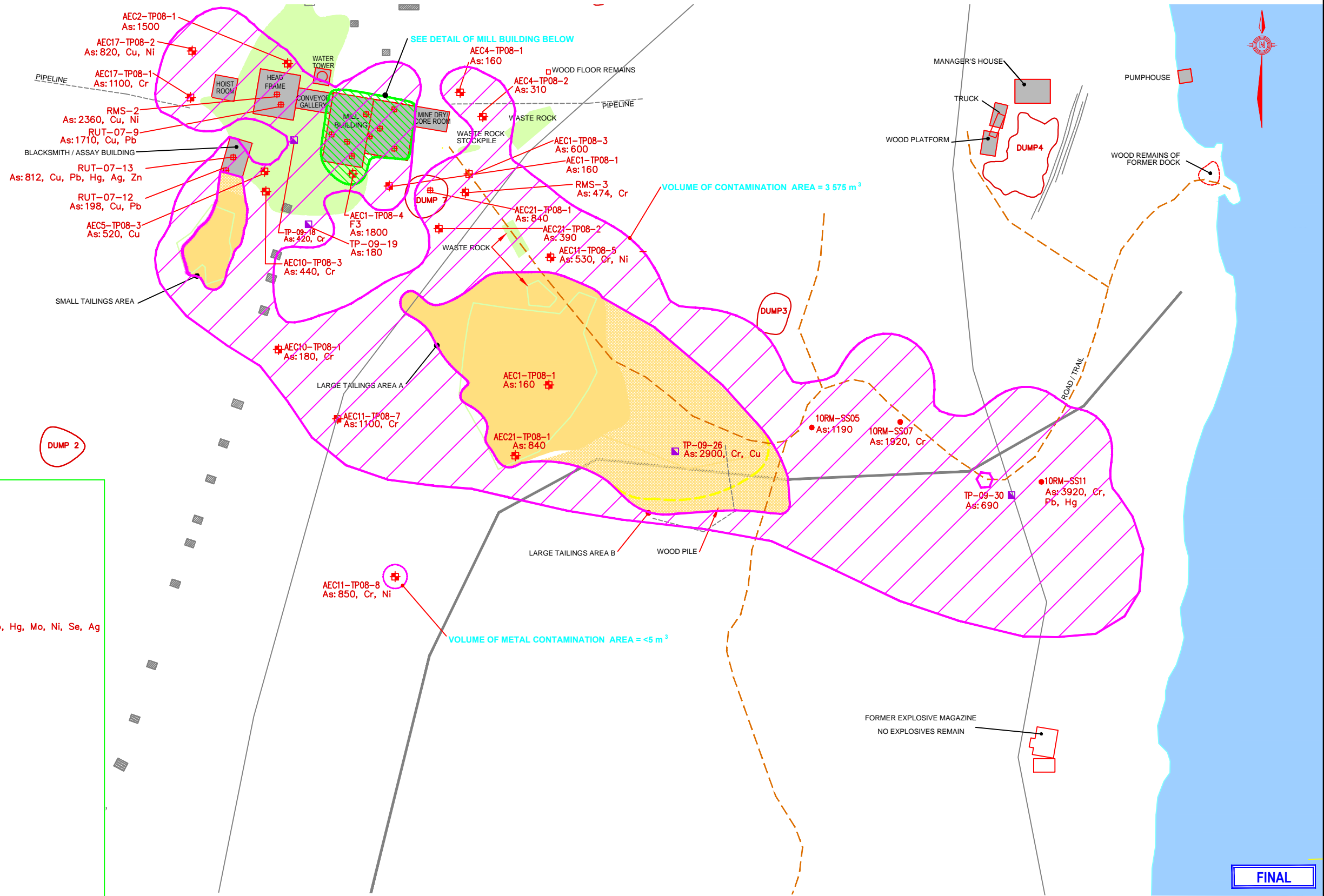
REMEDIATION ACTION PLAN  
FOR 7 ABANDONED MINE SITES, NT

RUTH MINE - AREA 5:  
HAZARDOUS & NON-HAZARDOUS MATERIALS  
DOCK AREA & FORMER EXPLOSIVES MAGAZINE

PROJECT No. 122510933	OFFICE OTT	DES DW	CKD FL	REV 0	DRAWING FIGURE RM 3-5
DATE Mar 2015	SHEET No. - of -	DWN APP	STATUS LC	REV 0	

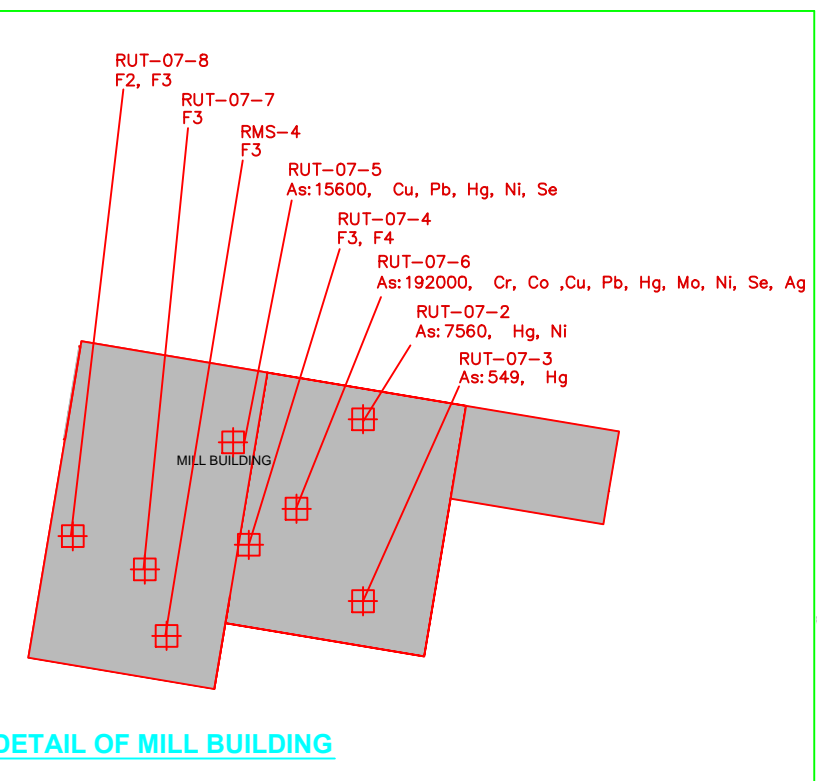


KEY PLAN



WASTE STREAM	TOTAL ESTIMATED VOLUME (m <sup>3</sup> )	UNCERTAINTY (m <sup>3</sup> )
PHCS + METALS IMPACTED SOIL	5985	1679

NOTE: INCLUDES VOLUMES AND ASSOCIATED UNCERTAINTIES FROM FIGURES RM 5-1 AND RM 5-2



DETAIL OF MILL BUILDING

LEGEND:

- WATER
- WASTE ROCK (2008)
- WETLAND
- TRENCH
- DUMP
- TAILINGS AREA
- TAILINGS AREA DIFFUSED
- CURRENT STRUCTURE (2008)
- WINTER ROAD
- TRAIL
- GROUND ELEVATION CONTOUR
- AEC AREA OF ENVIRONMENTAL CONCERN
- APEC AREA OF POTENTIAL ENVIRONMENTAL CONCERN
- AEC / APEC AREA OUTLINE
- SOIL SAMPLE - EBA 2010
- SOIL SAMPLE - EBA 2009
- SOIL SAMPLE - FRANZ 2008
- SOIL SAMPLE - GARTNER LEE 2007
- METAL CONTAMINATION
- HYDROCARBON AND METAL CONTAMINATION



CLIENT

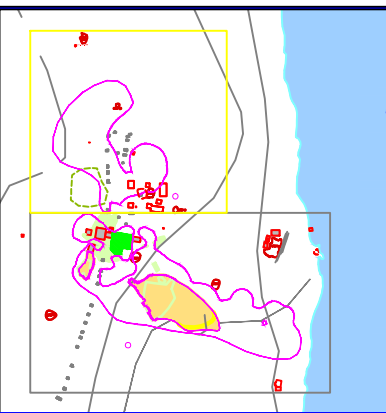
Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

**REMEDIAL ACTION PLAN FOR 7 ABANDONED MINE SITES, NT**

**RUTH MINE AREAS 1 AND 5: METAL AND HYDROCARBON SOIL CONTAMINATION AT MILL AND TAILINGS AREA**

PROJECT No.	OFFICE	DES	CHK	REV	DRAWING
122510933	OTT	DW	FL	0	FIGURE RM 5-1
DATE:	SHEET No.	DWN	APP	STATUS	
Mar 2015	2 of 3	LC	RF	0	





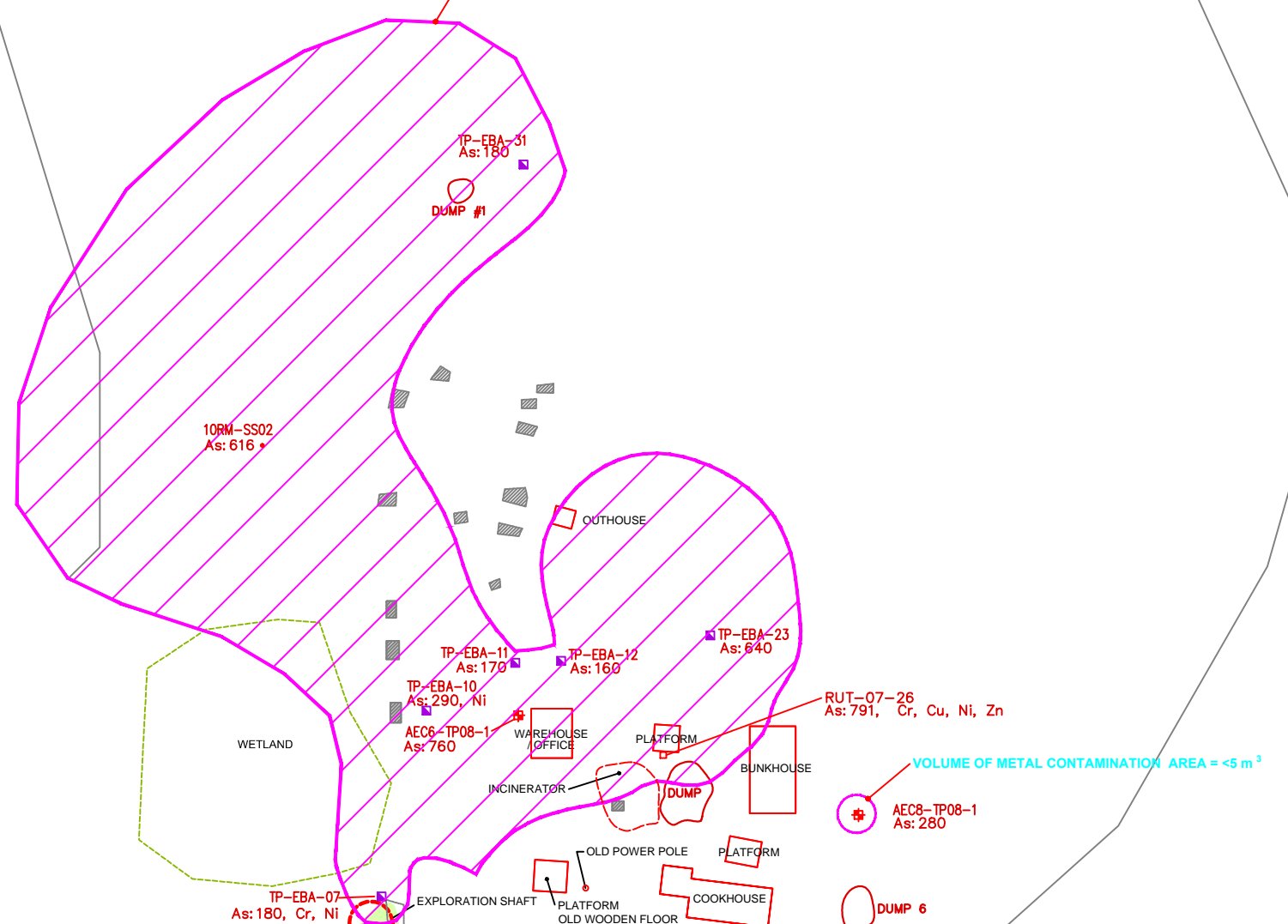
KEY PLAN

WASTE STREAM	TOTAL ESTIMATED VOLUME (m³)	UNCERTAINTY (m³)
PHCS + METALS IMPACTED SOIL	5985	1679

NOTE: INCLUDES VOLUMES AND ASSOCIATED UNCERTAINTIES FROM FIGURES RM 5-1 AND RM 5-2

BIG DUMP  
LARGE\_CAN\_DUMP

VOLUME OF METAL CONTAMINATION AREA = 2512 m³

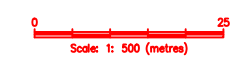


VOLUME OF METAL CONTAMINATION AREA = <5 m³

FINAL

LEGEND:

- WATER
- DUMP
- WINTER ROAD
- GROUND ELEVATION CONTOUR
- SOIL SAMPLE - EBA 2010
- METAL CONTAMINATION
- HYDROCARBON AND METAL CONTAMINATION
- WASTE ROCK (2008)
- TAILINGS AREA
- TRAIL
- AEC
- SOIL SAMPLE - EBA 2009
- SOIL SAMPLE - FRANZ 2008
- SOIL SAMPLE - GARTNER LEE 2007
- WETLAND
- TAILINGS AREA DIFFUSED
- APEC
- SOIL SAMPLE - FRANZ 2008
- SOIL SAMPLE - GARTNER LEE 2007
- TRENCH
- CURRENT STRUCTURE (2008)
- AEC / APEC AREA OUTLINE



	<b>REMEDIATION ACTION PLAN FOR 7 ABANDONED MINE SITES, NT</b>				
	<b>RUTH MINE AREA 2: METAL AND HYDROCARBON SOIL CONTAMINATION AT CAMP AREA AND DUMP SITES</b>				
PROJECT No. 122510933 DATE: Mar 2015	OFFICE OTT	DES DWN	CKD FL	REV 0	DRAWING FIGURE RM 5-2