



June 4, 2010

Project No. 1584-0902

Superintendent, Contaminated Sites Management Program
Transport Canada
Technical and Environmental Services
9700 Jasper Avenue Northwest
Edmonton, Alberta
T5J 4E6

ATTN: Darryl Pederson
Superintendent, Contaminated Sites Management Program

RE: Iqaluit Airport Land Treatment Units (LTUs) As-built inspection results (LTU C & LTU D)

Dear Mr. Pederson,

1.0 INTRODUCTION

Franz Environmental Inc. (Franz) was retained by Transport Canada (TC) to complete an inspection and generate as-built drawings of two LTUs located at the Iqaluit airport, Iqaluit, NU (See Figure 1). The as-built drawings are to be used as part of the requirements for water licence No. 1BR-LTU0608 with the Nunavut Water Board. The on-site inspection was completed on September 14, 2009.

1.1 Project Objectives

The goal of this project is to generate as-built drawings of the two LTUs (Cell C and Cell D) and record of site conditions to assess the performance of the LTUs. The specific objectives of the project are provided below:

1. To conduct field measurements of the two LTUs using a 50 m tape and levelling unit;
2. Inspect monitoring wells to ensure function;
3. To observe berms and cell liners to assess performance (i.e., containment of contaminated soils); and

4. To observe surrounding areas for any sign of leaching, cracking, or other potential geotechnical issues.

1.2 Scope of Work

This letter report provides the details of the LTU observations by Franz personnel including:

1. As-built drawings (See Figures 2 & 3);
2. Inspection forms for each LTU (Tables 1 & 2);
3. Visual geotechnical stability assessment (Tables 3 & 4);
4. Raw calculations of soil volumes, berm heights, and floor slope for each LTU (Table 5);
5. Photo plates detailing the construction of each LTU (See Appendix A); and
6. Cross sections of the two LTUs (Figures 4 & 5)

Any major issues that were noted during the inspection and which should be addressed in a timely fashion are detailed in this letter report.

2.0 RESULTS OF INSPECTIONS

The on-site inspections were conducted on September 14, 2009 by Franz representatives, Ryan Fletcher and Julie Dittburner.

Generally the two LTUs appear to be functioning as designed and as indicated in the supplied KGS Group design specifications. However, some minor alterations to the design specs and items of concern are as follows:

Cell C

- Cell contains soil piled in the down-gradient sump area (Area 1 – See Figures 2, 3, and 4); therefore, inhibiting proper drainage of excess water
- Cell contains only one down-gradient monitoring well, while two were indicated on the design specifications
- Soil depths exceed the specified maximum of 1 m in Area 1 (See Figures 2, 3, and 4)
- Some larger pieces of asphalt and/or concrete exist in the impacted soils

Cell D

- Slope of cell floor was measured at only 0.12% grade (target was 1% grade); however, the sump appeared to be functioning as designed
- Liner on the NE and SE sides is not adequately anchored (keyed) into the berms as indicated in the design specifications
- Cell only contains one down- gradient monitoring well, while two were indicated on the design specifications

- An average slope grade of 88% was measured for the outside berms (the target was 50% grade)

Generally, the two LTUs appear to be functioning as designed and no evidence of seepage or berm stress was noted (See attached Tables and Figures for details).

3.0 RECOMMENDATIONS

Based on the results of the LTU inspection, FRANZ makes the following recommendations:

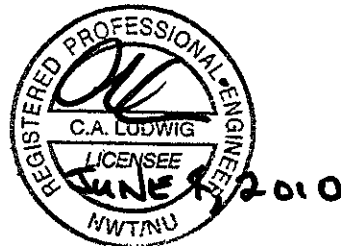
1. Soil piled in the sump area of LTU Cell C should be removed and spread out across the cell to allow for adequate drainage and achieve desired maximum soil thickness of 1 m
2. Additional fill material should be added to the NE and SE berms of LTU Cell D to ensure adequate anchoring of the liners incase of high wind events
3. Soil berms in Cell D should be reinforced with additional fill material to obtain the specified 50% grade to ensure structural integrity incase of high precipitation events
4. Larger items (concrete and asphalt) should be removed to allow for adequate aeration of the material.

We trust that the above is satisfactory for your purposes at this time. Should you have any questions or concerns, please do not hesitate to call.

Franz Environmental Inc.



Ryan Fletcher, C.Tech, CEPIT
Environmental Technician



Christian A. Ludwig, M. Eng., P. Eng., PMP
Project Principal

Z:\Projects\2009\1584-0902 TC Iqaluit Airport LTUs\Report\1584-0901 Inspection Letter Report.doc

Tables

Table 1 – Inspection Form, Cell C

Aspect	Design aspects according to specifications	Observations
Dimensions	130 m x 80 m measured from inside top of crest	92.6 m x 44 m Smaller than planned
Slope	1% downwards along centerline lengthwise in direction of groundwater flow 2% downward from edges towards centerline	0.85% grade not observable
Cell Dike Crest	Side slopes = 2h:1v Total height = 1.0 m Width across top = 1.5 m Constructed of pit run gravel (0.7 m) with 0.3 m sand on top	Average of 54% grade Average height = 1.08 m Average width = 2.04 m No – native fill material (sand – unknown origin)
Liner Anchor	Top of anchor 0.3 m below top of dike Width of anchor = 1.0 m Depth interval of anchor within dike wall = 0.3 to 0.8 m	No Unknown – not visible Approximately 0.3 m to 0.8 m (varies)
Base	0.15 m “prepared base” on native soil Overlain by 60mil HDPE line Overlain by geotextile Overlain by 0.3 m of sand	Unknown – however very likely No – 25 mm RPE reinforced polyethylene impermeable Yes – Non-woven polypropylene geotextile (170 EX) No
Drainage	At downgradient edge, collection trench 0.3 to 1.0 m deep (?) Presence of drainage sump and pump out location	No – filled in with soil No
Contaminated Soil	Maximum thickness = 0.75 m Slope at 2h:1v away from edges of drainage trench at downgradient end	Ave. 0.83 m No
Monitoring wells	One upgradient well approx. 12 meters upgradient of cell centerline Two downgradient wells, approx. 12 m downgradient from bottom of dike wall, and 25 m in from outside edges of crests	One 4.9 m upgradient– good condition (frozen) – See Figures One 3.9 m downgradient – good condition (frozen) – See Figures

Table 2 – Inspection Form, Cell D

Aspect	Design aspects according to specifications	Observations
Dimensions	130 m x 80 m measured from inside top of crest	49.6 m X 47 m Smaller than planned
Slope	1% downwards along centerline lengthwise in direction of groundwater flow	0.12%. Inadequate
	2% downward from edges towards centerline	Not observable
Cell Dike Crest	Side slopes = 2h:1v	Average 88% grade
	Total height = 1.0 m	Average = 0.818 m
	Width across top = 1.5 m	Average = 2.18 m
	Constructed of pit run gravel (0.7 m) with 0.3 m sand on top	No – native fill material (sand – unknown)
Liner Anchor	Top of anchor 0.3 m below top of dike	No
	Width of anchor = 1.0 m	No - northeast side only periodically anchored. Other remaining sides good.
	Depth interval of anchor within dike wall = 0.3 to 0.8 m	Varies - good on two sides, not the NE or SE side
Base	0.15 m “prepared base” on native soil	Unknown – however very likely
	Overlain by 60mil HDPE line	No - HDPE 30 mm non-woven liner material
	Overlain by geotextile	Yes – Non-woven polypropylene geotextile (150 EX)
	Overlain by 0.3 m of sand	No
Drainage	At downgradient edge, collection trench 0.3 to 1.0 m deep (?)	Yes
	Presence of drainage sump and pump out location	Yes
Contaminated Soil	Maximum thickness = 0.75 m	Average = 0.43 m
	Slope at 2h:1v away from edges of drainage trench at downgradient end	Yes
Monitoring wells	One upgradient well approx. 12 meters upgradient of cell centerline	One 3.9 m upgradient – good condition (frozen) – See Figures
	Two downgradient wells, approx. 12 m downgradient from bottom of dike wall, and 25 m in from outside edges of crests	One 3.2 m downgradient – good condition (frozen) – See Figures

Table 3: Preliminary Stability Assessment
LTU C

Feature	Severity Rating	Extent
Dike	Acceptable	None
Settlement	Acceptable	None
Erosion	Acceptable	Occasional
Frost Action	Acceptable	None
Staining	Not Observed	None
Vegetation Stress	Not Observed	None
Seepage	Acceptable	None
Overall LTU Performance	Acceptable	

Performance / Severity Rating	Description
Acceptable	Noted features are of little consequence. The LTU is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on LTU stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting LTU stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of LTU is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Erosion channels or areas of differential settlement. Liner exposed. Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the LTU
Extensive	Impacting greater than 50% of the surface area of the landfill

Table 4: Preliminary Stability Assessment
LTU D

Feature	Severity Rating	Extent
Dike	Acceptable	None
Settlement	Acceptable	None
Erosion	Acceptable	Occasional
Frost Action	Acceptable	None
Staining	Not Observed	None
Vegetation Stress	Not Observed	None
Seepage	Acceptable	None
Overall LTU Performance	Acceptable	

Performance / Severity Rating	Description
Acceptable	Noted features are of little consequence. The LTU is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement.
Marginal	Physical/environmental performance appears to be deteriorating with time. Observations may include an increase in size or number of features of note, such as differential settlement, erosion or cracking. No significant impact on LTU stability to date, but potential for failure is assessed as low or moderate.
Significant	Significant or potentially significant changes affecting LTU stability, such as significant changes in slope geometry, significant erosion or differential settlement; scarp development. The potential for failure is assessed as imminent.
Unacceptable	Stability of LTU is compromised to the extent that ability to contain waste materials is compromised. Examples may include: <ul style="list-style-type: none"> Erosion channels or areas of differential settlement. Liner exposed. Slope failure.
Extent	Description
Isolated	Singular feature
Occasional	Features of note occurring at irregular intervals/locations
Numerous	Many features of note, impacted less than 50% of the surface area of the LTU
Extensive	Impacting greater than 50% of the surface area of the landfill

Cell C	dimensions 92.6 m X 44 m	Slope of floor = 0.85%
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Berm Height

Station	level 1 (m)	level 2 (m)	difference (height) (m)
1	1.71	2.56	0.85
2	1.71	2.58	0.87
3	1.67	2.99	1.32
4			
5	1.53	2.86	1.33
6	1.07	1.82	0.75
7			
8	1.07	2.39	1.32
9	1.03	1.92	0.89
10	1.28	2.23	0.95
11	1.68	2.84	1.16
12	1.5	2.86	1.36

Average's	1.08
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side slopes

top length (m)	bottom length (m) (to toe of slope)	difference (m)	slope (rise/run)	slope % grade
1.6	2.8	1.2	0.85/1.2	70.833333
2.5	2.6	0.1	0.87/0.1	
1.1	3.2	2.1	1.32/2.1	62.857143
1.5	3.2	1.7		
1.5	3.7	2.2	1.33/2.2	60.454545
2.1	3.5	1.4	0.75/1.4	53.571429
3.4	5.5	2.1		
3.2	5.4	2.2	1.32/2.2	60
4.3	6.8	2.5	0.89/2.5	35.6
1.1	3.3	2.2	0.95/2.2	43.181818
1	3.6	2.6	1.16/2.6	44.615385
1.2	3.5	2.3	1.36/2.3	59.130435

2.04166667	3.925	1.883333333	54.471565
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target 1.5 m

target was 50% grade

Cell D	dimensions 49.8 X 47 m	Slope of floor = 0.12%
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Berm Height

Station	level 1 (m)	level 2 (m)	difference (height) (m)
1	0.885	1.705	0.82
2	1	1.685	0.685
3	0.835	1.808	0.973
4	1.032	2.102	1.07
5	1.005	1.895	0.89
6	0.905	1.77	0.865
7	0.382	1.35	0.968
8	0.6	1.42	0.82
9	1.15	1.97	0.82
10	0.972	1.645	0.673
11	0.77	1.602	0.832
12	0.62	1.02	0.4

Average's	0.8463333	1.66433333	0.818
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side slopes

top length (m)	bottom length (m) (to toe of slope)	difference (m)	slope (rise/run)	slope % grade
1.4	2	0.6	0.82/0.6	136.66667
1.35	2.07	0.72	0.685/0.72	95.138889
1.3	2.35	1.05	0.973/1.05	92.666667
3.7	4.3	0.6	1.07/0.6	178.33333
4.5	5.9	1.4	0.89/1.4	63.571429
4.68	6.92	2.24	0.895/2.24	38.616071
1.15	2.48	1.33	0.968/1.33	72.781955
1.63	2.31	0.68	0.82/0.68	120.58824
1.8	2.4	0.6	0.82/0.6	136.66667
1.65	2.5	0.85	0.673/0.85	79.176471
2.01	2.34	0.33	0.832/2.34	252.12121
1	1.73	0.73	0.4/0.73	54.794521

2.180833333	3.108333333	0.9275	88.19407
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target 1.5 m

target was 50% grade

870

floor slope

L1 (m)	L2 (m)	distance	% grade	Station	level (m)	Area 1	Area 2	Area 3
2.11	2.86	88.15	0.850822	T1	1.36	1.555	1.325	2.0775
				T2	1.29			
				T3	2.02			
				T4	1.98			
				T5	2.01			
				T6	2.3			
				T7	1.75			
				T8	1.36			

average floor elevation (m)
(used for soil depth calcs)

2.485

Soil area 1 =	1412	square metres
Soil area 2 =	204	square metres
Soil area 3 =	1549	square metres

0.93	average depth 1
1.16	average depth 2
0.4075	average depth 3
1313.16	volume area 1
236.64	volume area 2
631.2175	volume area 3
2181.018	Total estimated volume (cubic metres)

floor slope

L1 (m)	L2 (m)	distance	% grade	Station	level (m)
1.712	1.665	37.9	0.124011	T1	1.455
				T2	1.509
				T3	1.495
				T4	1.456
				T5	1.31
				T6	0.908
				T7	0.865
				T8	1.045
				T9	1.26

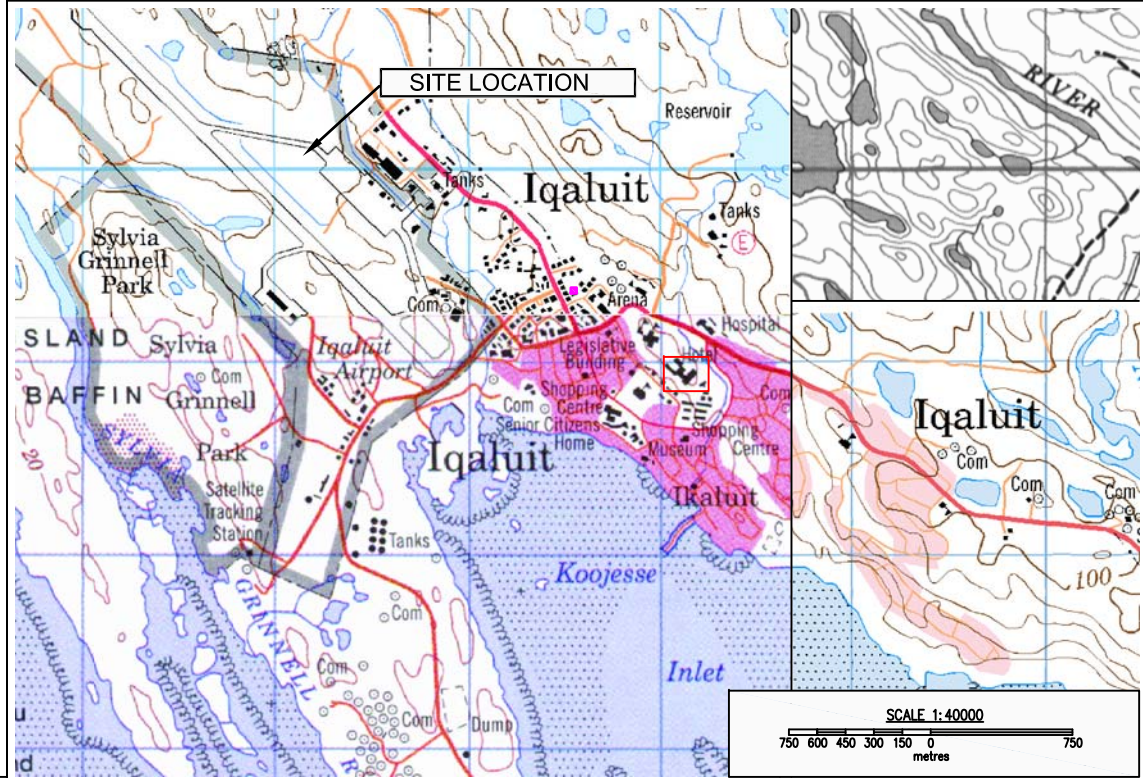
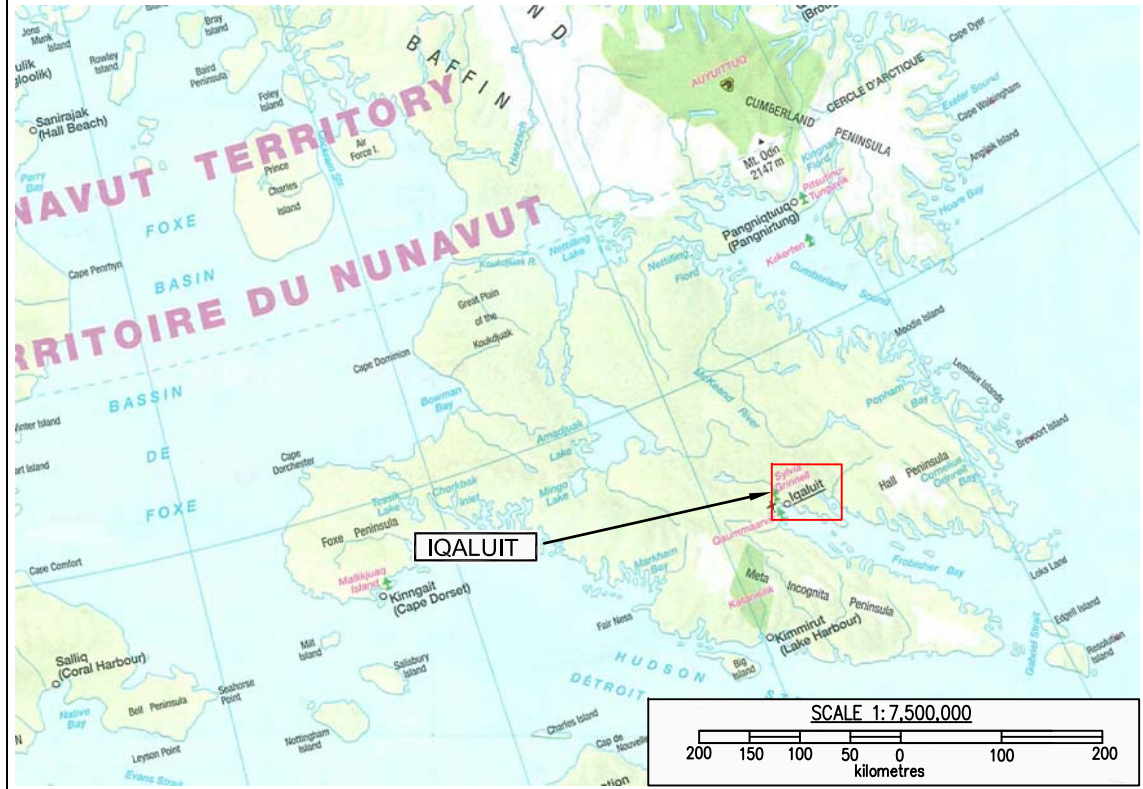
average floor elevation (m)
(used for soil depth calcs)

1.6885

Soil area =	1700	square metres
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1.255889	avrage level
0.432611	average depth
735.4389	estimated volume (cubic metres)

Figures



References:

- (above) Google Earth satellite image, 2008.
- (upper right) "Canada Road Map", MapArt Publishing, 2003.
- (lower right, composite) Natural Resources Canada NTS Sheet: 25-N/9 Burton Bay, Nunavut, Edition 3, NAD 83, Series A 713, 2001.
Natural Resources Canada NTS Sheet: 25-N/10 Hill Island, Nunavut, Edition 2, NAD 83, Series A 713, 2001.
Natural Resources Canada NTS Sheet: 25-N/15 Iqaluit, Nunavut, Edition 2, NAD 83, Series A 713, 2001.
Natural Resources Canada NTS Sheet: 25-N/16 [No Title] Nunavut, Edition 2, NAD 83, Series A 701, 2001.

Title: SITE LOCATION	
 ♦ CONSULTING ♦ ENGINEERING ♦ TECHNOLOGIES ♦	Project: LTU AS-BUILT REPORT IQUALUIT AIRPORT IQUALUIT, NT
Date: JUNE 2010	Client: TRANSPORT CANADA
SCALES AS SHOWN	
FIGURE 1	



LEGEND:

- BERM
- TOE OF BERM
- PILE OF SOIL
- FORMER CELL 'A' LOCATION
- SUMP
- MONITORING WELL
- CROSS SECTIONS



REFERENCE: GOOGLE EARTH SATELLITE IMAGE, 2009.

Title: IQUALUIT AIRPORT LTU's - SITE PLAN	
 FRANZ ENVIRONMENTAL INC. CONSULTING • ENGINEERING • TECHNOLOGIES	Project: AS-BUILT DRAWING IQUALUIT AIRPORT LTU's IQUALUIT, NU
	Client: TRANSPORT CANADA
Date: MARCH 2010	

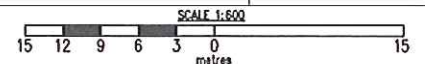
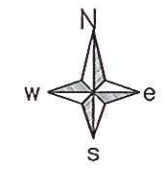
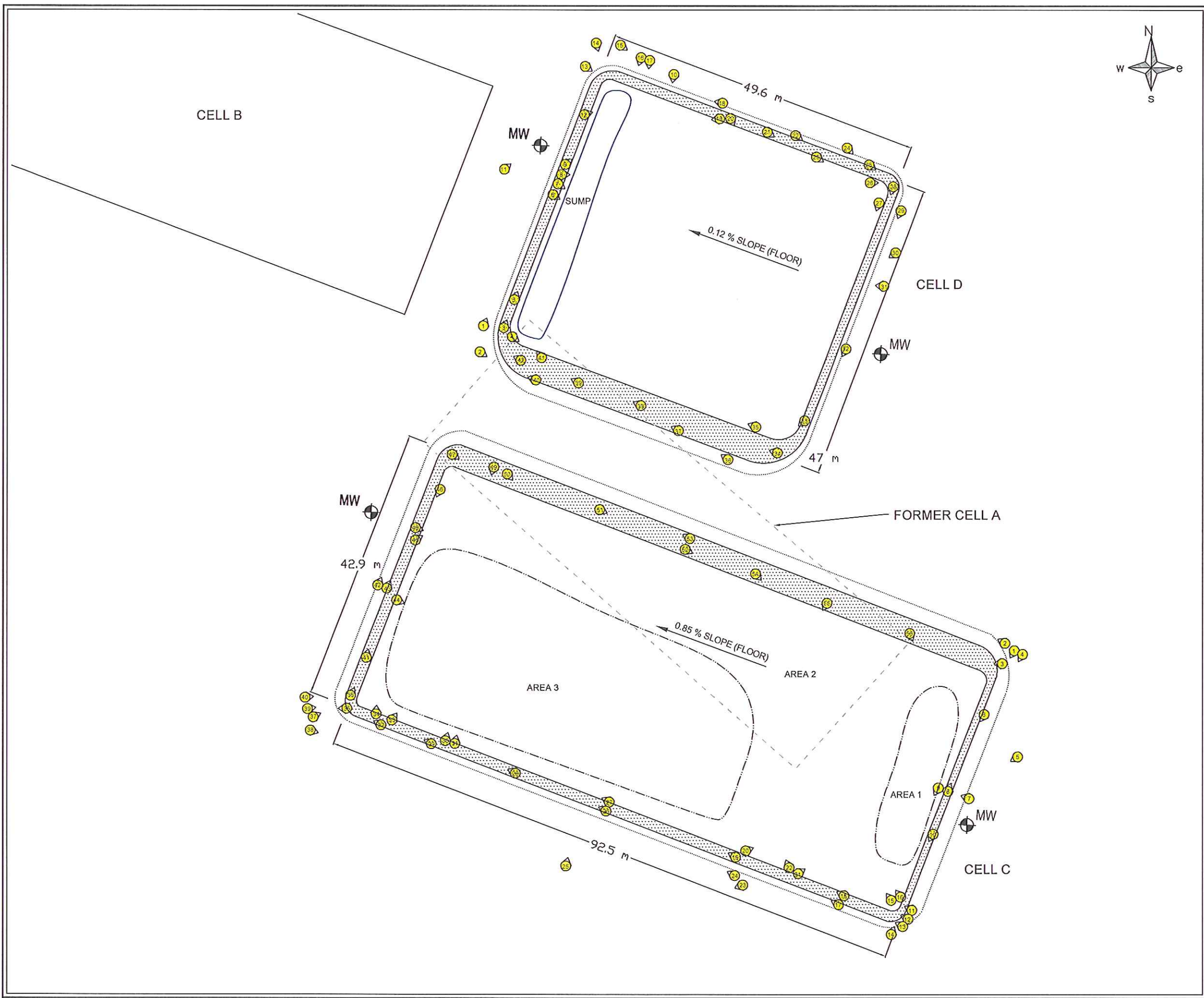


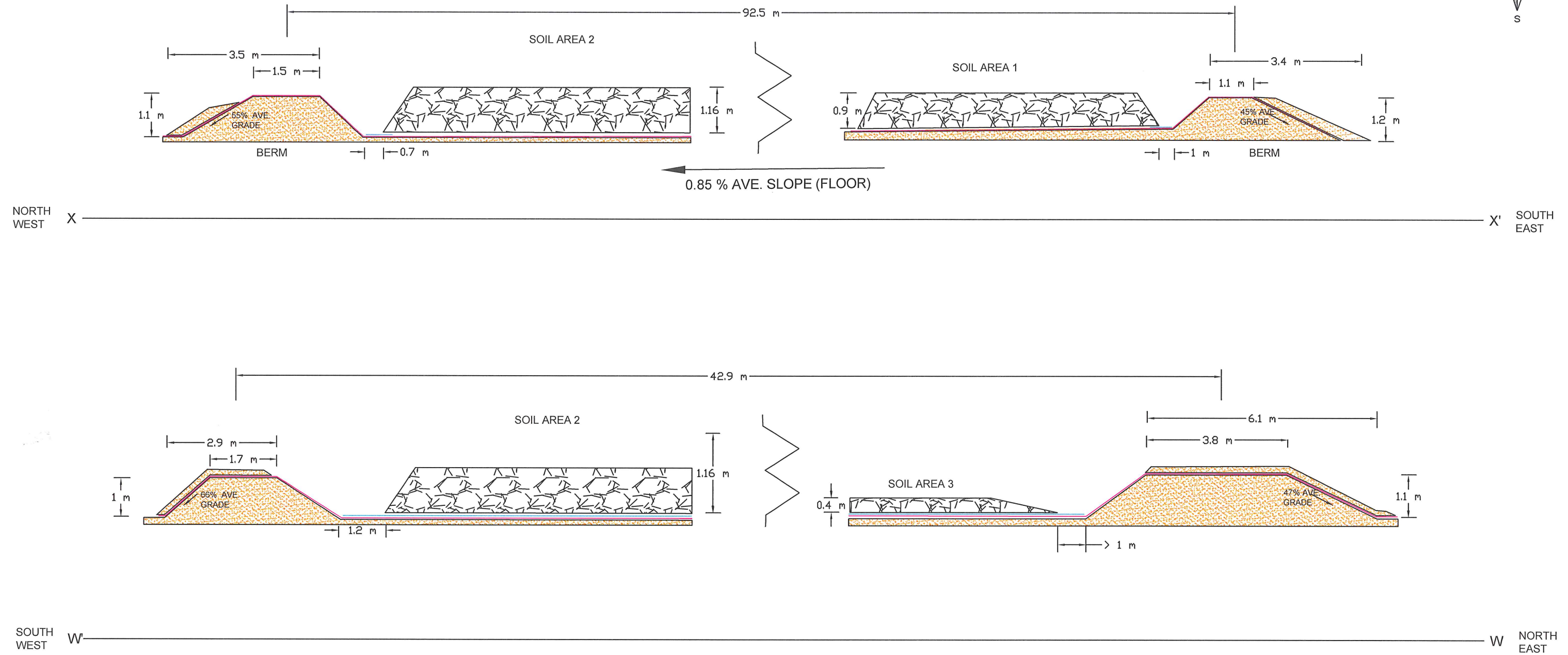
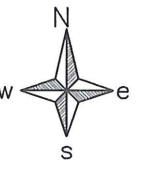
FIGURE 2



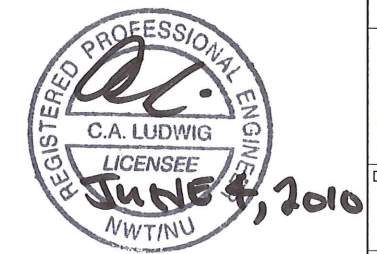
- LEGEND:**
- BERM
 - TOE OF BERM
 - PILE OF SOIL
 - FORMER CELL 'A' LOCATION
 - SUMP
 - MONITORING WELL
 - PHOTO LOCATION, REFERENCE & DIRECTION




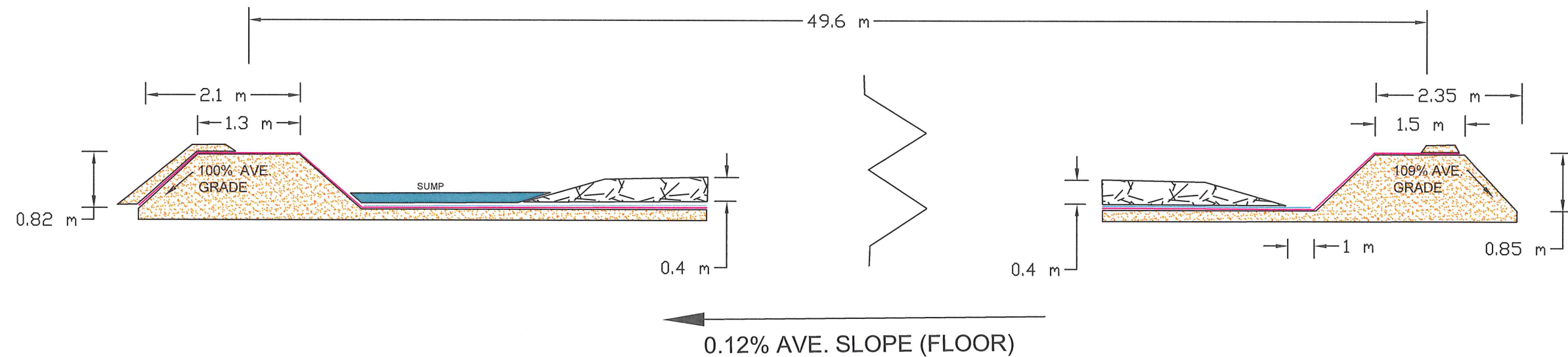
Title: IQUALUIT AIRPORT LTU's -PHOTO LOCATIONS	
FRANZ ENVIRONMENTAL INC. CONSULTING • ENGINEERING • TECHNOLOGIES	Project: AS-BUILT DRAWING IQUALUIT AIRPORT LTU's IQUALUIT, NU
	Client: TRANSPORT CANADA
Date: MARCH 2010	
SCALE 1:600 	
FIGURE 3	



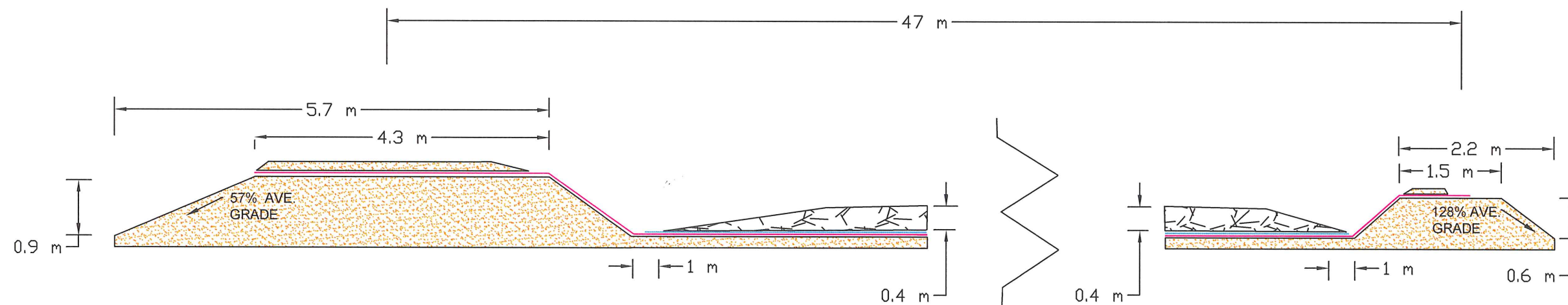
- LEGEND:
- BERM/NATIVE SOIL
 - ENVIRO LINER
 - GEOTEXTILE
 - LAND FARMED MATERIAL



Title: CELL C CROSS SECTIONS - AVERAGE DIMENSIONS	
 CONSULTING • ENGINEERING • TECHNOLOGIES	Project: AS-BUILT DRAWING IQALUIT AIRPORT LTU's IQALUIT, NU
Date: JUNE 2010	Client: TRANSPORT CANADA
DIMENSIONS AS SHOWN	FIGURE 4








NORTH WEST Y SOUTH EAST Y'




SOUTH WEST Z' NORTH EAST Z

LEGEND:


-  BERM/NATIVE SOIL
-  ENVIRO LINER
-  GEOTEXTILE
-  LAND FARMED MATERIAL
-  WATER




Title: CELL D CROSS SECTIONS - AVERAGE DIMENSIONS	
 ♦ CONSULTING ♦ ENGINEERING ♦ TECHNOLOGIES ♦	Project: AS-BUILT DRAWING IQUALUIT AIRPORT LTU's IQUALUIT, NU
Date: JUNE 2010	Client: TRANSPORT CANADA
DIMENSIONS AS SHOWN	FIGURE 5


Appendix A

Cell C


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-1		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-2		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-3		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-4		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-5		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-6		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-7		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-8		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-9		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-10		
Date Sept 14, 2009		
Direction SW		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-11		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-12		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-13		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-14		
Date Sept 14, 2009		
Direction NE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-15		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-16		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-17		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-18		
Date Sept 14, 2009		
Direction		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-19		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-20		
Date Sept 14, 2009		
Direction NE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-21		
Date Sept 14, 2009		
Direction NNE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-22		
Date Sept 14, 2009		
Direction NW		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-23		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-24		
Date Sept 14, 2009		
Direction W		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-25		
Date Sept 14, 2009		
Direction N		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-26		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-27		
Date Sept 14, 2009		
Direction NA		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-28		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-29		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-30		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-31		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-32		
Date Sept 14, 2009		
Direction WSW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-33		
Date Sept 14, 2009		
Direction N		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-34		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-35		
Date Sept 14, 2009		
Direction W		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-36		
Date Sept 14, 2009		
Direction NNE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-37		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-38		
Date Sept 14, 2009		
Direction SE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-39		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-40		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-41		
Date Sept 14, 2009		
Direction NNE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-42		
Date Sept 14, 2009		
Direction N/A		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-43		
Date Sept 14, 2009		
Direction NNE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-44		
Date Sept 14, 2009		
Direction ESE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-45		
Date Sept 14, 2009		
Direction NE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-46		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-47		
Date Sept 14, 2009		
Direction ESE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-48		
Date Sept 14, 2009		
Direction SE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-49		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-50		
Date Sept 14, 2009		
Direction SE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-51		
Date Sept 14, 2009		
Direction ESE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-52		
Date Sept 14, 2009		
Direction ESE		
Description LTU C		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-53		
Date Sept 14, 2009		
Direction NW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-54		
Date Sept 14, 2009		
Direction SE		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-55		
Date Sept 14, 2009		
Direction SW		
Description LTU C		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUC-56		
Date Sept 14, 2009		
Direction SE		
Description LTU C		

Cell D


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-1		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-2		
Date Sept 14, 2009		
Direction SE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-3		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-4		
Date Sept 14, 2009		
Direction SE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-5		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-6		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-7		
Date Sept 14, 2009		
Direction ESE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-8		
Date Sept 14, 2009		
Direction ENE		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-9		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-10		
Date Sept 14, 2009		
Direction NA		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-11		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-12		
Date Sept 14, 2009		
Direction NE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-13		
Date Sept 14, 2009		
Direction ESE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-14		
Date Sept 14, 2009		
Direction SE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-15		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-16		
Date Sept 14, 2009		
Direction SW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-17		
Date Sept 14, 2009		
Direction SW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-18		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-19		
Date Sept 14, 2009		
Direction NW		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-20		
Date Sept 14, 2009		
Direction SE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-21		
Date Sept 14, 2009		
Direction ESE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-22		
Date Sept 14, 2009		
Direction ESE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-23		
Date Sept 14, 2009		
Direction SE		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-24		
Date Sept 14, 2009		
Direction SE		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-25		
Date Sept 14, 2009		
Direction SE		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-26		
Date Sept 14, 2009		
Direction E		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-27		
Date Sept 14, 2009		
Direction S		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-28		
Date Sept 14, 2009		
Direction E		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-29		
Date Sept 14, 2009		
Direction SSW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-30		
Date Sept 14, 2009		
Direction SSW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-31		
Date Sept 14, 2009		
Direction W		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-32		
Date Sept 14, 2009		
Direction WSW		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-33		
Date Sept 14, 2009		
Direction SW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-34		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-35		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-36		
Date Sept 14, 2009		
Direction NW		
Description LTU D		


Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-37		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-38		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-39		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-40		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-41		
Date Sept 14, 2009		
Direction NW		
Description LTU D		

Iqaluit Airport LTU's		1584-0901
Photo ID: LTUD-42		
Date Sept 14, 2009		
Direction N		
Description LTU D		