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403 254 3301 tel 403 270 9196 fax

March 18, 2013

Phyllis Beaulieu Licensing Manager Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Dear Phyllis:

Project No: Water Use Licence No.: 1BR-BYR0712 2012 Annual Report

Regarding: PIN-4, Byron Bay DEW Line Site

AECOM Canada Ltd. is providing the attached annual report form as per Section B.1 of the abovenoted water use license. The report is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

During the 2012 field season at PIN-4, site activities included grading and completion of the Non-Hazardous Waste Landfill (NHWL) and Tier II Disposal Facility, reclamation of borrow areas, and monitoring of soil and water at various locations. The following is a detailed summary of the work items completed during the 2012 summer construction season at PIN-4:

- Reclamation of borrow areas
- Soil samples were collected at the North and Northwest Landfills as part of the baseline landfill monitoring program
- Final grading and capping at the Non-Hazardous Waste Landfill and Tier II Disposal Facility was completed
- Specifically, the work completed at the NHWL facility in 2012 included:
 - o Completion of Type II granular application
 - Type I granular placed on side slopes of landfill
 - ~ 150mm of organic soil was placed on top of NHWL facility
 - o Granular slow release fertilizer placed on top of landfill to promote revegetation
- The work completed at the Tier II Disposal Facility in 2012 included:
 - Placement of Type II granular fill
 - o Type I material placed on side slopes of facility
 - ~ 150 mm thickness of organic material placed on top of the facility
 - o Granular slow release fertilizer placed on top of facility to promote revegetation
 - Thermistor cables and data loggers were installed in PVC casings
 - Perimeter of eastern side of facility was reshaped to provide positive drainage



Community Consultations: The results of the community meetings held by DCC were submitted with the Project Description. The contractor typically holds a project start up meeting prior to each season; however, the 2012 season was very short and mainly had the same workforce as 2011. As a result, only a short start up meeting was completed, which did not include a formal presentation.

Spill Incidences: None reported.

Monitoring Reports: No monitoring reports were prepared, as therer were no wastewater or sewage effluent samples collected.

All decommissioning work at the PIN-4 site has been completed. The only remaining task is to remove the PCB material currently in the registered temporary storage area, which is expected to be completed in August 2013.

We trust the information provided is sufficient. Please feel free to contact the undersigned if you require any additional information.

Sincerely,

AECOM Canada Ltd.

Eva Schulz, P.Ag.

Senior Environmental Scientist

Eva.Schulz@aecom.com

EMS.

cc: Tamara Van Dyck, DCC

Encl. Annual Report Form; Updated Site Figures; Selected Site Photos

NWB Annual Report			Year being reported: 2012			
License No: 1BR-BYR0712		12		ed Date: ry Date:	July 23, 2007 December 31	, 2012
	Project Name:		PIN-4, Byron Bay D	DEW Line	Site Clean Up	
	Licensee:	Defence	e Construction Canada			
	Mailing Address:		Defence Construction Canada DGME 101 Colonel By Drive, Ottawa, Ontario, Canada. K1A 0K2			
	Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable): AECOM Design Engineering and Regulatory Support					
General Bac	kground Info	rmation	on the Project (*o	ptional):		
with	Licence Requirements: the licensee must provide the following information in accodance with Part B Item 1					
_	btaining wat	er; sewa	ige and greywate		es, including, but ement; drill waste	
	Water Source		Water Supply Lak	ke (BYR-	1)	
	Water Quant	. ,	55 per day (14.5 per day/ for 32 days (14.5 per day/ for 32 days (14.5 per day/ for 32 day	Quantity Actual Qu	Allowable Domestic uantity Used Dome: Allowable Drilling (o antity Used Drilling	stic (cu.m) cu.m)
	Waste Mana	gement a	and/or Disposal			
	✓ Solid Waste Disp ✓ Sewage ☐ Drill Waste ✓ Greywater ☐ Hazardous					
	✓ Other					
	Additional Details of the documents.		anagement were p	provided	in the application s	upporting
A liet of upon	ithorized dis-	chargos	and a cummary o	of follow	-up actions taken.	
A list of unat	Spill No.: Date of Spill: Date of Notifi	cation to	an Inspector:	eported to	the Spill Hot-line) ss, short/long term moni	

	IV/A
Revisions to	the Spill Contingency Plan
	SCP submitted and approved - no revision required or proposed
	Additional Details:
	Additional Botains.
Pavisions to	the Abandonment and Restoration Plan
itevisions to	N/A - not applicable
	,
	Additional Details:
	The project is an Abandonment and Restoration project.
Progressive	Reclamation Work Undertaken
	Additional Details (i.e., work completed and future works proposed)
	n/a
Results of th	e Monitoring Program including:
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and
	longitude) of each location where sources of water are utilized;
	Select
	A 1 150 - 1 15 - 11
	Additional Details:
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are
	Details attached
	Additional Details:
	Results of any additional sampling and/or analysis that was requested by an
	Inspector
	No additional sampling requested by an Inspector or the Board
	Additional Dataila: (data of request, analysis of requite, data attached, ata)
	Additional Details: (date of request, analysis of results, data attached, etc)
	Additional Details: (date of request, analysis of results, data attached, etc)

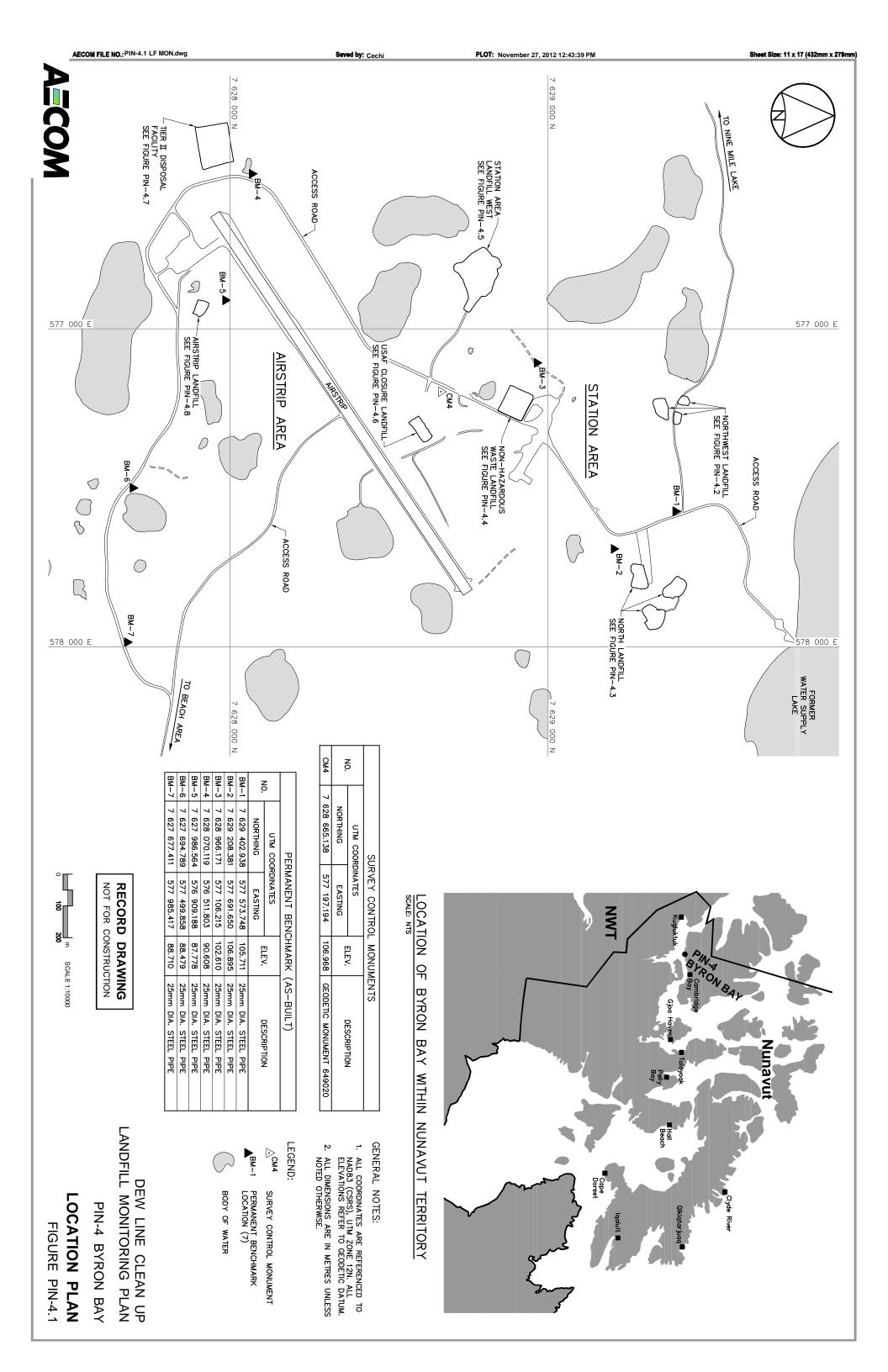
Any other deta the year being	ils on water use or waste disposal requested by the Board by November 1 of reported.	
ľ	o additional sampling requested by an Inspector or the Board	
	dditional Details: (Attached or provided below)	
Any response	or follow-up actions on inspection/compliance reports	
	o inspection and/or compliance report issued by INAC	•
<u> </u>	dditional Details: (Dates of Report, Follow-up by the Licensee)	_
Any additiona	comments or information for the Board to consider	
Date Submitte Submitted/Pre Contact Inform	pared by: Eva Schulz	

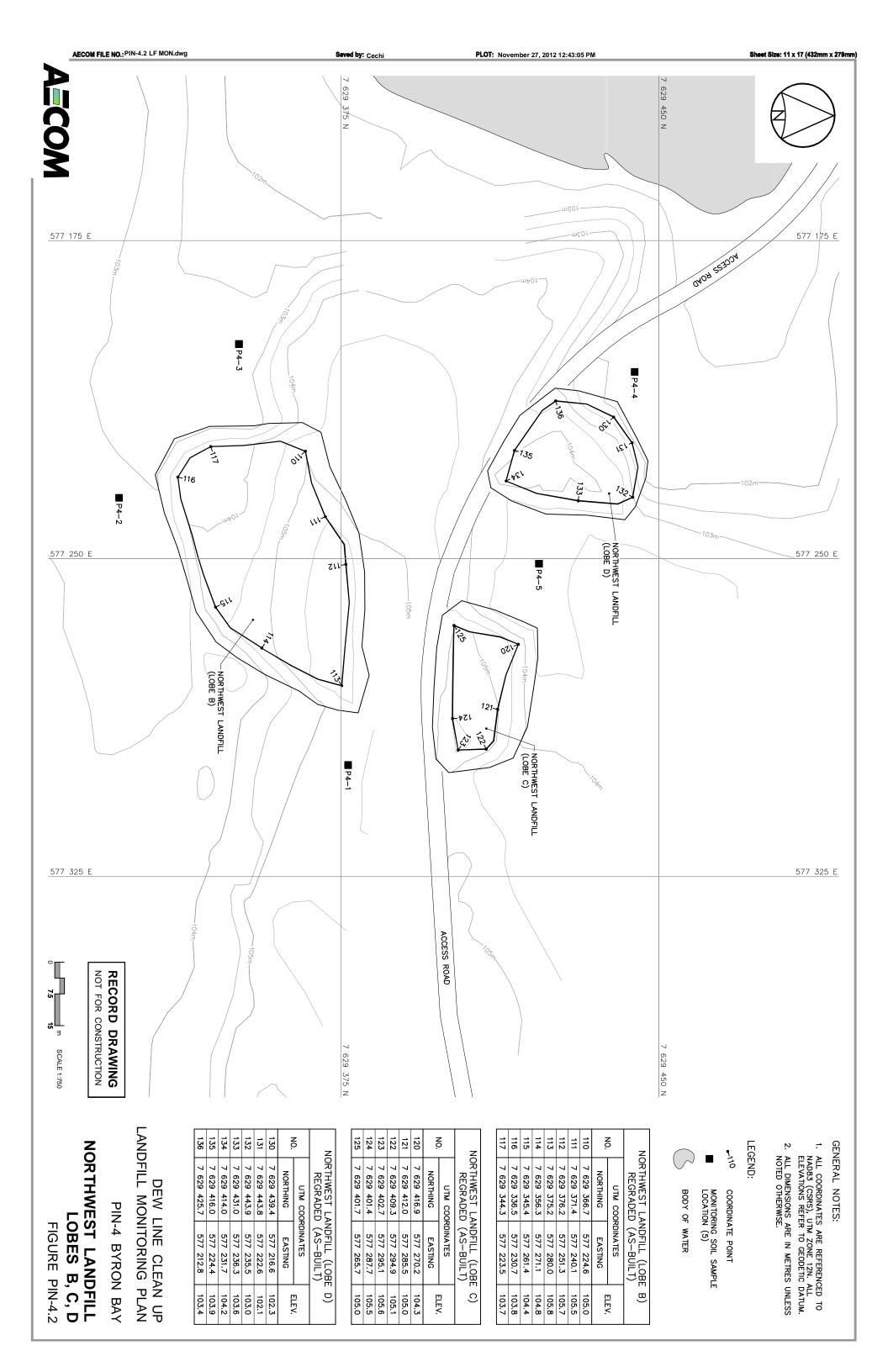
GPS Coordinates for water sources utilized

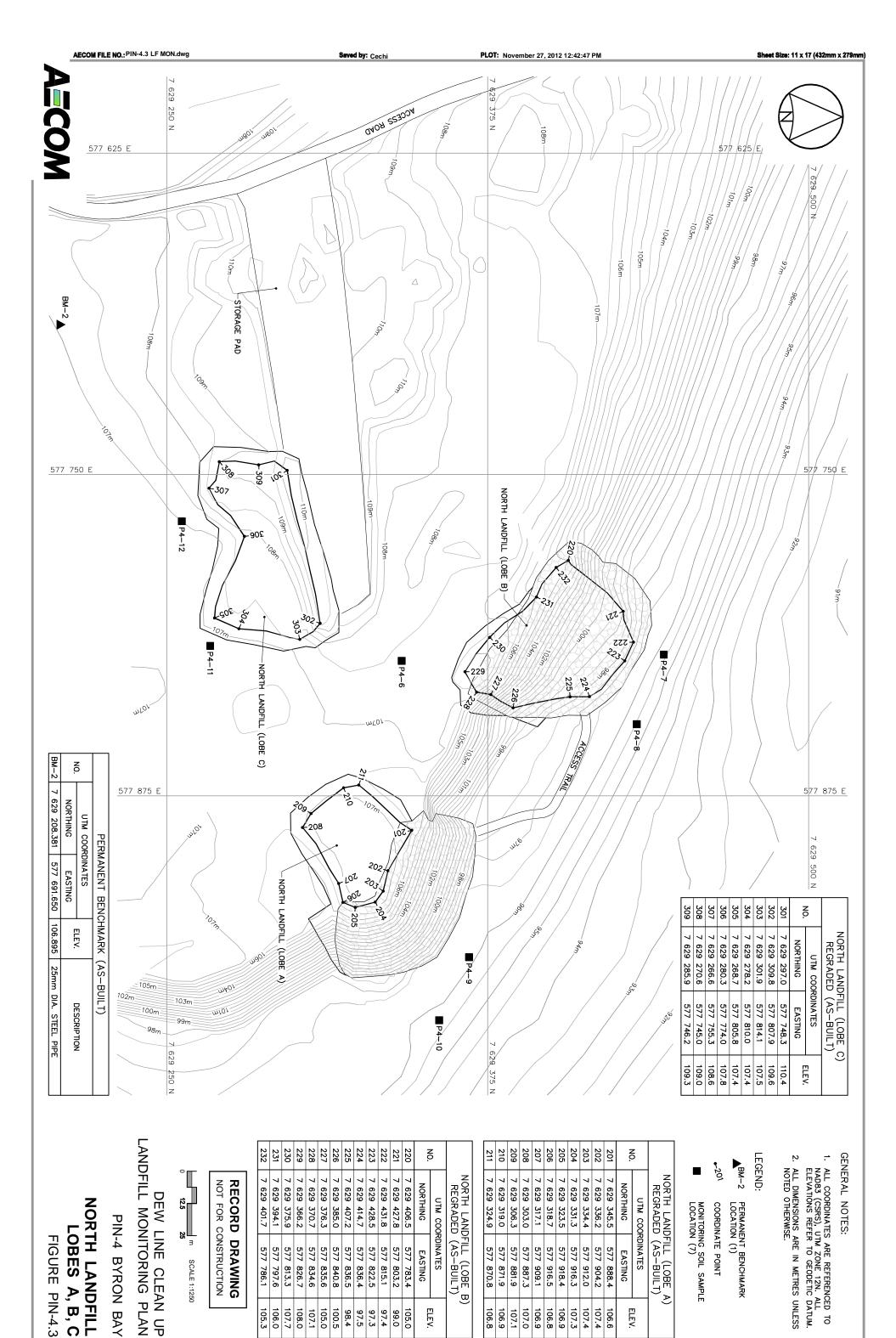
	UTM Zone 12N, NAD83			
Source Description	Northing	Easting		
water supply lake	7629850	578000		

GPS Locations of areas of waste disposal

Location Description (type)	UTM Zone 12N, NAD83			
	Northing	Easting		
Landfarm Berm (NO1)	7627922.1	581046.7		
Landfarm Berm (NO3)	7627868.7	581139.9		
Landfarm Berm (NO4)	7627772.2	581056.9		
Landfarm Berm (NO6)	7627857.6	580991.2		
Non-Hazardous Waste Landfill				
(Q01)	7628945.2	577219.4		
Non-Hazardous Waste Landfill				
(Q02)	7628915.3	577282.7		
Non-Hazardous Waste Landfill				
(Q03)	7628856.6	577255		
Non-Hazardous Waste Landfill				
(Q04)	7628886.4	577191.7		
Tier II Landfill (R01)	7627978.4	576372.9		
Tier II Landfill (R02)	7627993.9	576456.5		
Tier II Landfill (R03)	7627934.9	576467.4		
Tier II Landfill (R04)	7627919.4	576383.9		
Sewage Lagoon	n/a			







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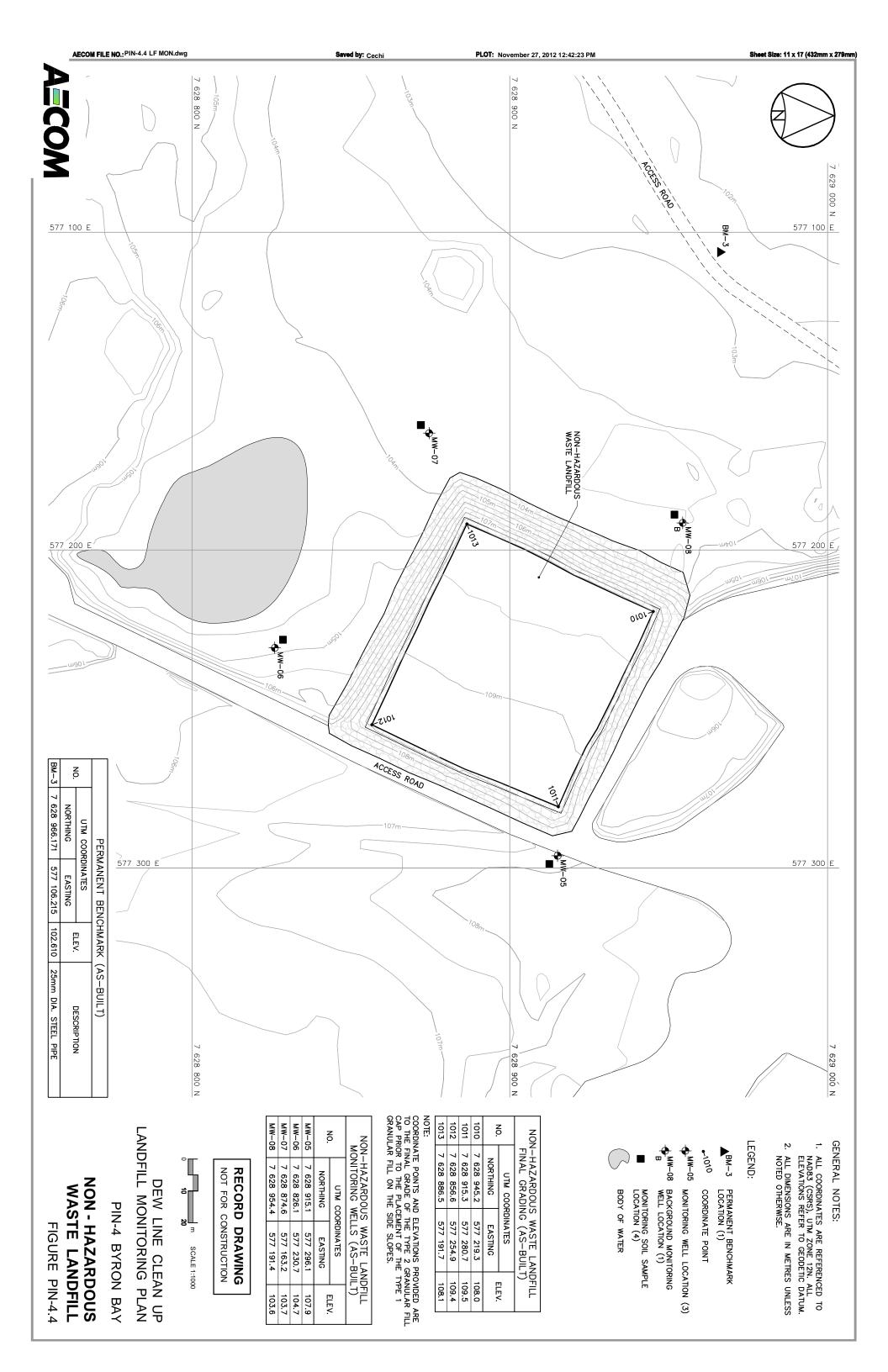
106.6 107.4 107.4 107.3 106.9 106.8 106.9 106.9 107.0 107.1 106.9

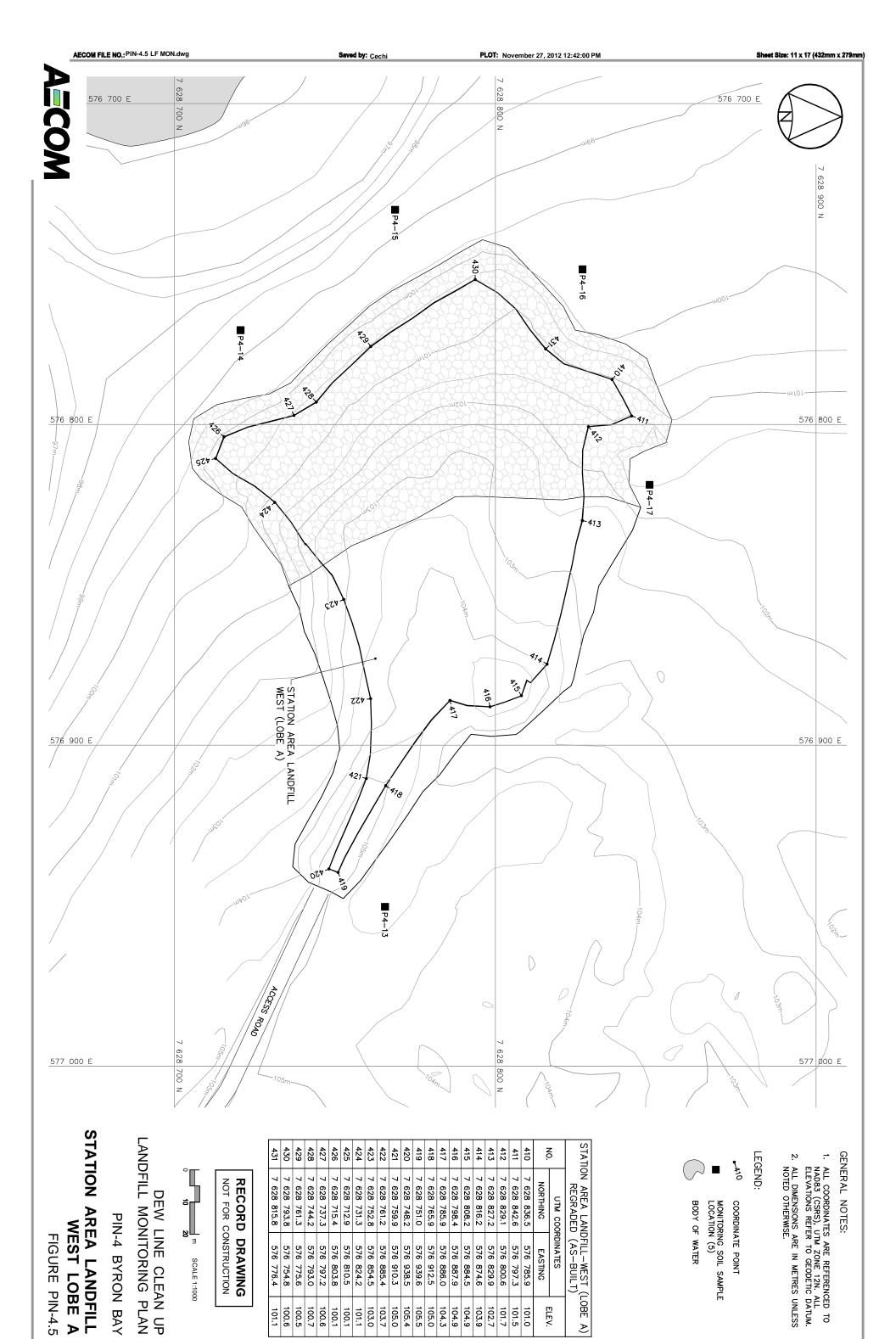
ELEV.

105.0 ELEV.

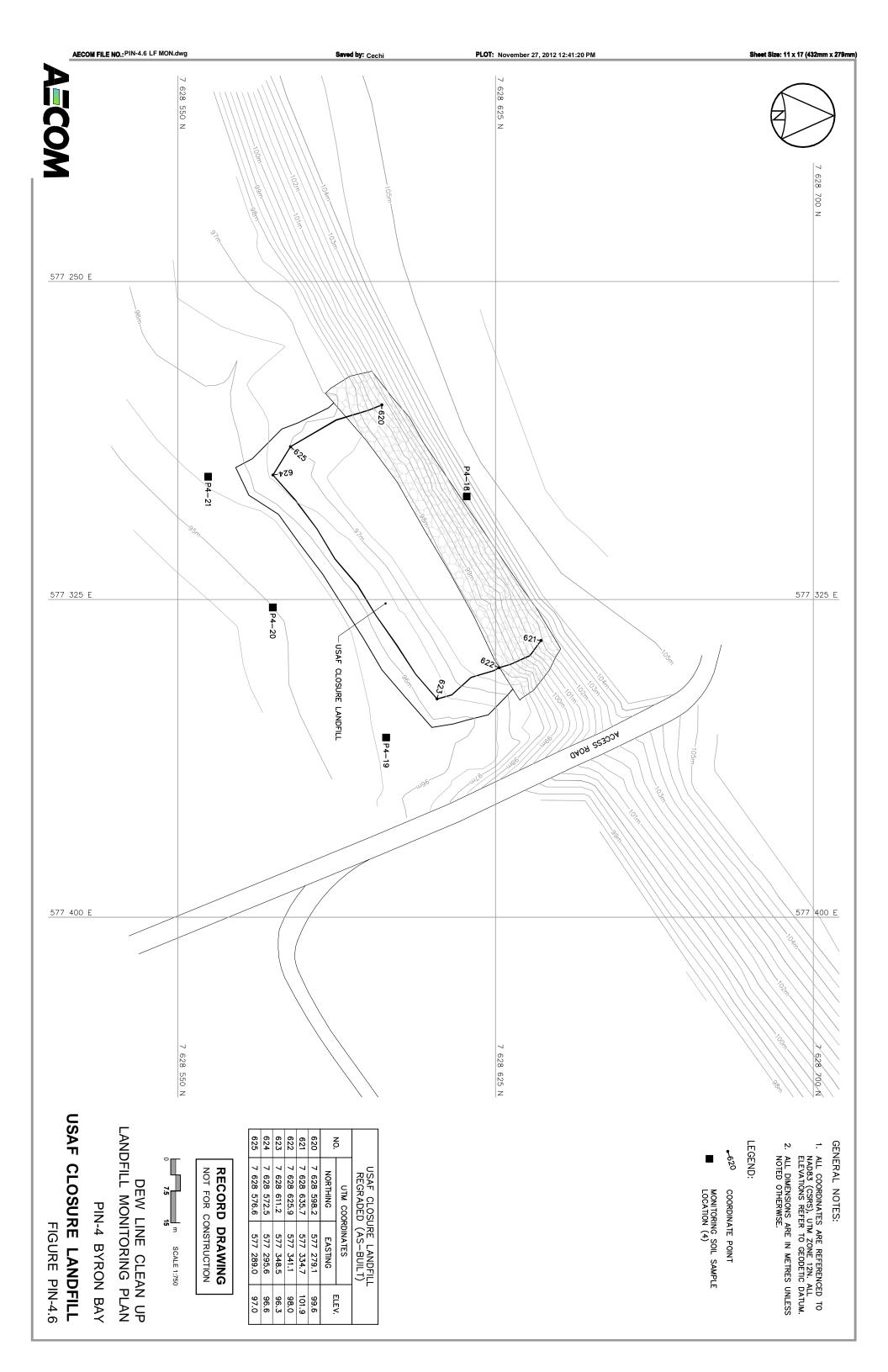
99.0 97.4 97.3 97.5 98.4 100.5 105.0 107.1 108.0

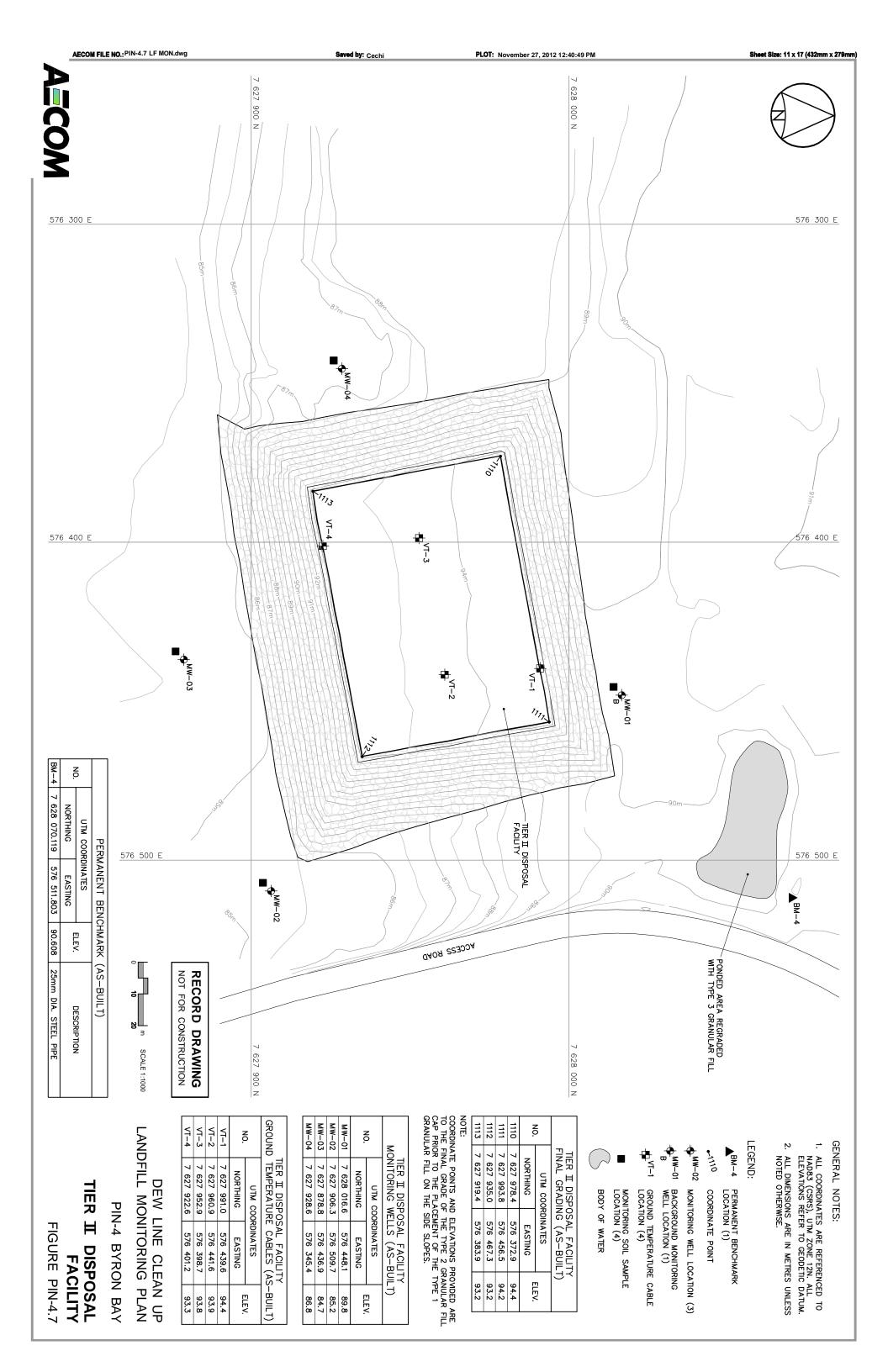
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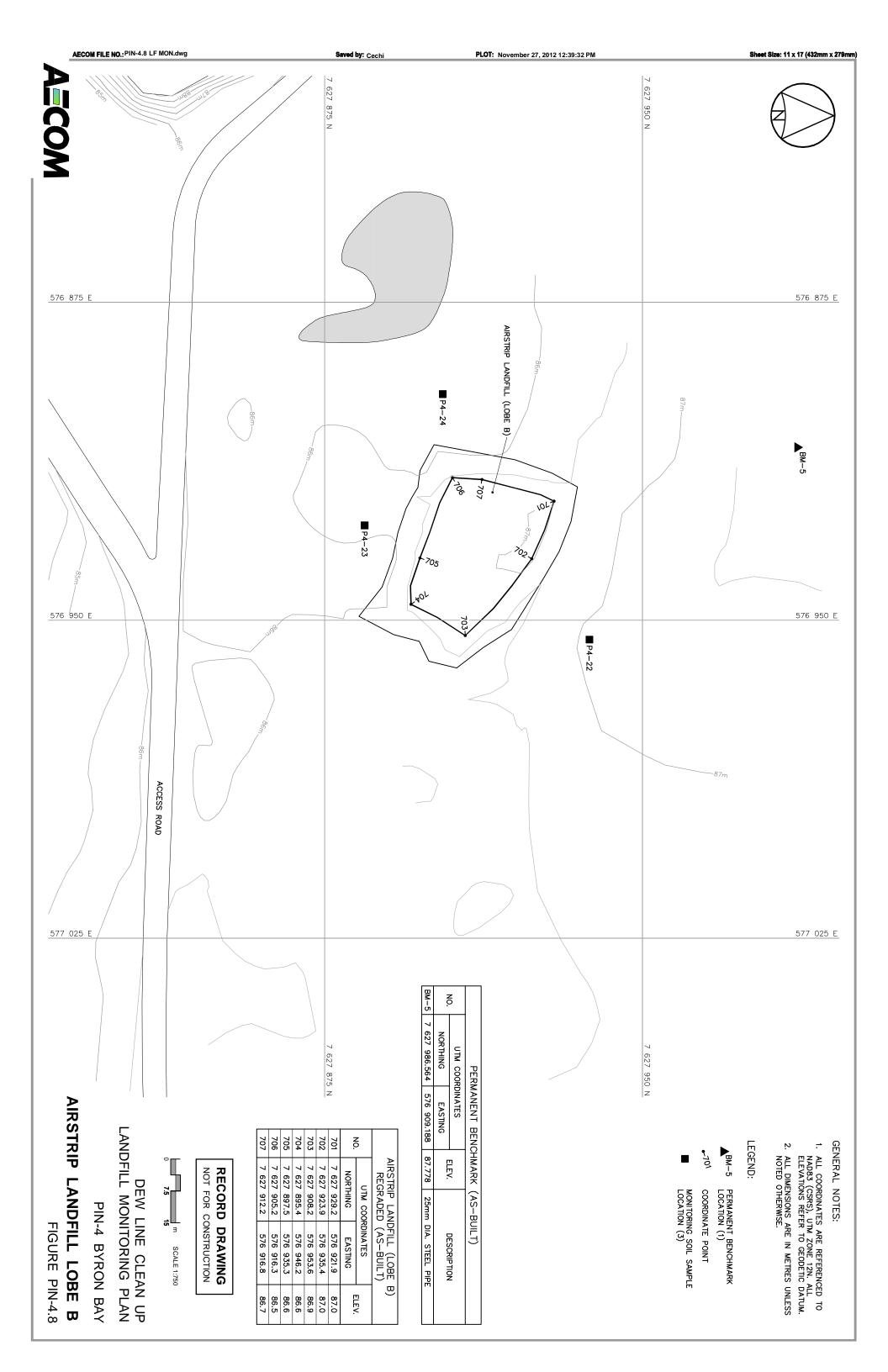




101.0 101.5 101.7 102.7 103.9 104.9 104.9 104.3 105.0 105.5 105.5 105.5 105.7 105.7 105.7 100.1 100.1 100.1









Site Name: PIN-4Site Location: Byron Bay, NUProject No.
60263359

Photo No.

Date: July 9, 2012

Direction Photo Taken:

South

Description:

Type 2 placed on Tier II DF.



Photo No.

Date: July 10, 2012

Direction Photo Taken:

West

Description:

Lift 7 Placed on Tier II DF





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No.

Date:July 13,
2012

Direction Photo

Taken:

North

Description:

Lift 8 Being Watered on Tier II DF.



Photo No.

Date: July 14, 2012

Direction Photo Taken:

West

Description:

Lift 8 on Tier II DF being watered and spread.





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No. 5 July 15, 2012

Direction Photo Taken:

North

Description:

Lift 9 Being Compacted on Tier II.



Photo No. Date:

6 July 16,
2012

Direction Photo Taken:

South

Description:Lift 9 Being Compacted.





Site Name: PIN-4Site Location: Byron Bay, NUProject No.
60263359

Photo No.

Date:July 18,
2012

Direction Photo

Taken:

South

Description:

Open Section of NHWL.



Photo No.

Date:July 19,
2012

Direction Photo Taken:

South

Description:

Packing Type 1 on USAF Regrade.





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No.

Date: July 19, 2012

Direction Photo Taken:

Not Available.

Description:

Final Lift of Type 2 on Tier II DF.



Photo No. 10 **Date:** July 21, 2012

Direction Photo Taken:

South

Description:

Type 1 Placed on S Slope of Tier II DF.





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No.

Date: July 22, 2012

Direction Photo

Taken:

North

Description:

Type 1 Placed on N Slope of Tier II.



Photo No.

Date: July 22, 2012

Direction Photo Taken:

West.

Description:

Type 3 Placed on Tier II DF.





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No.

Date: July 24, 2012

Direction Photo

Taken:

West

Description:

Type 6 placed on NHWL



Photo No.

Date: July 25, 2012

Direction Photo Taken:

South

Description:

Type 2 Being Spread on NHWL.





Site Name: PIN-4 Site Location: Byron Bay, NU Project No. 60263359

Photo No. 15 **Date:** July 27, 2012

Direction Photo

Taken:

Not Available.

Description:

Reshaped area E of Tier II.



Photo No. 16 **Date:** July 29, 2012

Direction Photo Taken:

North

Description:

Open Pit in NHWL for Camp De-Mob.





Site Name: PIN-4Site Location: Byron Bay, NUProject No.
60263359

 Photo No.
 Date:

 17
 July 30, 2012

Direction Photo

Taken:

North

Description:

BA 18 Reclamation in Progress.

