



November 2, 2015

Project No: 141-15176-00

**Tracey Braun, M.Sc.**

Director, Environmental Approvals  
MANITOBA CONSERVATION AND WATER STEWARDSHIP  
160-123 Main Street  
Winnipeg, MB R3C 1A5

Dear Ms. Braun:

**RE: L.G.D. OF PINAWA  
WASTEWATER STABILIZATION POND EXPANSION  
NOTICE OF ALTERATION NO. 2 – LICENCE No: 230 VC R**

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On behalf of our client, we would like to apply for an alteration to Environment Act Licence No. 230 VC R, revised on September 25, 2014 for the L.G.D. of Pinawa wastewater stabilization pond, "lagoon". The proposed changes do not affect any of the existing clauses of the licence.

To complete the construction of a 1 m clay liner for New Secondary Cell no. 4, a clay borrow pit will be required. The clay borrow pit will be within New Secondary Cell no. 4 and is located along the east side of the Cell near the intercell dyke. The area for the borrow pit is shown in the attached drawing and will be up to 6,500 m<sup>2</sup>. The amount of clay to be excavated from this borrow pit is calculated to be approximately 4,000 m<sup>3</sup>. The depth of the borrow pit will range from 0.5 to 1 m. There will be at least 1 m of suitable clay below the bottom of the clay borrow area ensuring a 1 m clay liner on the floor of New Secondary Cell no. 4.

Once the till areas in Cell no. 4 are capped with suitable clay material, we are proposing that the borrow area will be backfilled with the unsuitable till material

excavated from Cell no. 4 to return the borrow area to the design floor elevation of 274.5 m. Once completed, the area will be surveyed and shown on the As-Constructed plans.

If you have any questions regarding this alteration notification, please contact the undersigned. We look forward to your response on this matter and respectfully request a reply by November 6, 2015.

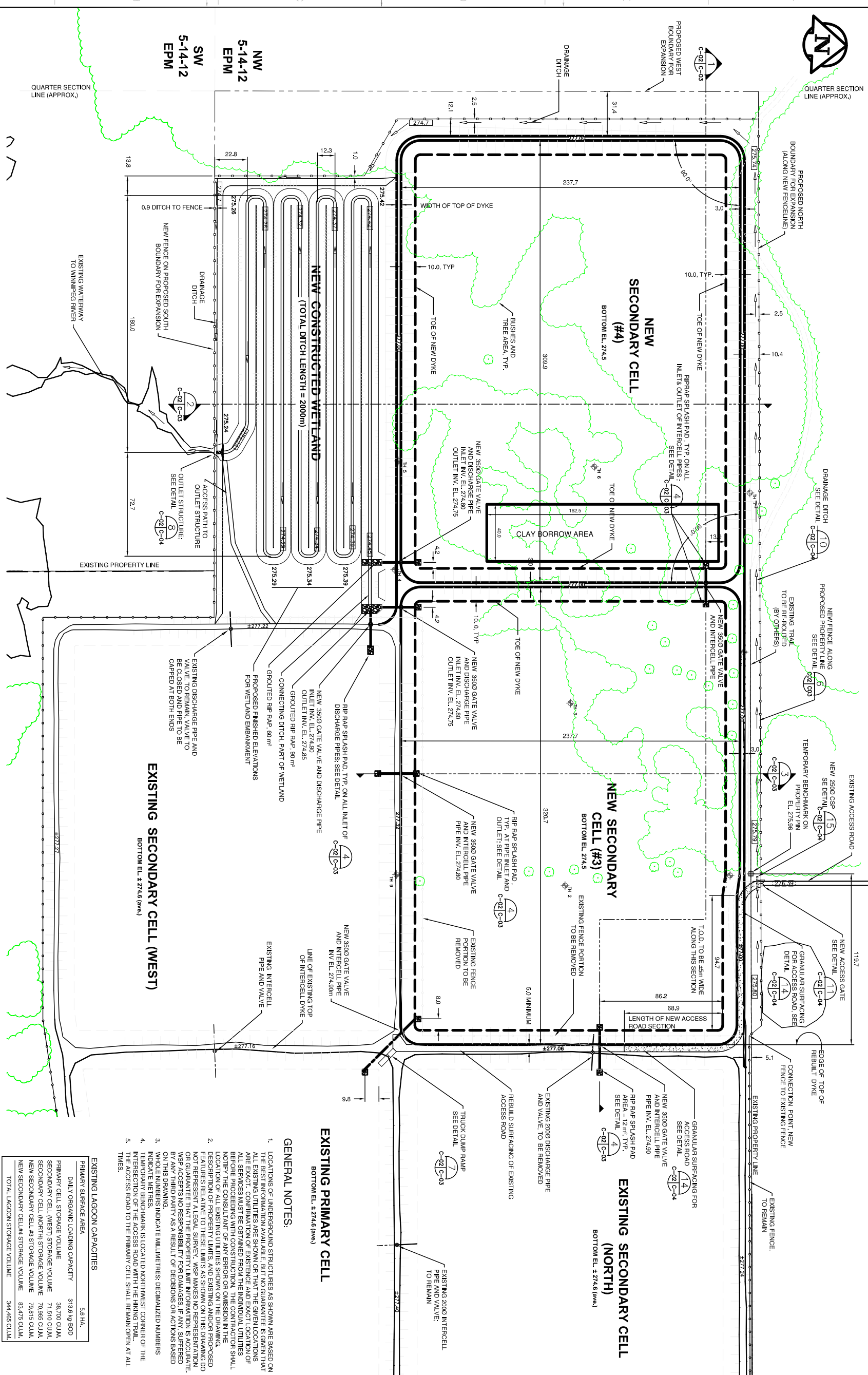
Regards,

WSP Canada Inc.

A handwritten signature in black ink, appearing to read 'Dana Bredin', written in a cursive style.

Dana Bredin, P.Eng  
Geotechnical / Civil Engineer

cc: Ms. Gisele Smith, Acting CAO – L.G.D. of Pinawa  
Mr. Andrew Toews, Public Works Manager – L.G.D. of Pinawa  
Mr. Robert Boswick, P.Eng. – Manitoba Conservation and Water Stewardship



**EXISTING PRIMARY CELL**  
BOTTOM EL. ±274.6 (ave.)

**GENERAL NOTES:**

1. LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. WSP MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE, OR ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED ON THIS DRAWING.
2. LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWING.
3. WHOLE NUMBERS INDICATE MILLIMETRES; DECIMALIZED NUMBERS INDICATE METRES.
4. TEMPORARY BENCHMARK IS LOCATED NORTHWEST CORNER OF THE INTERSECTION OF THE ACCESS ROAD WITH THE HIKING TRAIL.
5. THE ACCESS ROAD TO THE PRIMARY CELL SHALL REMAIN OPEN AT ALL TIMES.

**EXISTING LAGOON CAPACITIES**

PRIMARY SURFACE AREA	DAILY ORGANIC LOADING CAPACITY
5.6 HA	313.8 kg-90D
	38.70G CUM.
	71.51G CUM.
	70.96G CUM.
	79.81G CUM.
	83.47G CUM.
<b>TOTAL LAGOON STORAGE VOLUME</b>	<b>344,465 CUM.</b>

**PROPOSED EXPANSION LAYOUT PLAN**

DESIGNED BY:	LVC/JSB
DRAWN BY:	LVC/JSB/R.M.N.
CHECKED BY:	R.M.N.
DATE:	2014/08/20
ISSUED FOR:	TENDER
SHEET NUMBER:	C-02
SHEET TOTAL:	3 OF 6
DATE:	2014/08/20



PROJECT: L.G.D. OF PINAWA WASTEWATER STABILIZATION POND EXPANSION

CLIENT: MANITOBA WATER SERVICES BOARD



DATE: 2014/08/20  
ISSUED FOR: TENDER

NO.	DATE	DESCRIPTION
1	2014/08/13	ISSUED FOR CLIENT REVIEW
2	2014/08/20	ISSUED FOR TENDER

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SCALE: AS SHOWN

TITLE: PROPOSED EXPANSION LAYOUT PLAN

SHEET NO: C-02

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