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# District of Lantzville

## REPORT TO CAO

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Regular Meeting Agenda Item  
April 25, 2016

File No. 5600-08  
DISTRICT OF LANTZVILLE\Reports to Council\2016\2015 Water Study Clarity.doc

**AUTHOR:** Fred Spears, Director of Public Works

**SUBJECT:** 2015 Koers Water Supply and Distribution Study Clarification

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### RECOMMENDATIONS

THAT Council receives this report for information.

### ALTERNATIVE

N/A

### PURPOSE

To provide clarity on the boundary defined by "The Winds" as presented in the Water Supply and Distribution System Study and, confirm the number of homes covered in "the winds" catchment areas, as presented in the Water Supply and Distribution System Study.

### BACKGROUND

Council at its April 11, 2016 meeting made the following motions:

*WHEREAS in the 2015 Water Supply & Distribution System Study from Koers & Associates Engineering, one of the items listed in the scope of work for the report was "Servicing Northwind/Southwind Area" (excerpt attached to Councillor Coulson's submission);*

*AND WHEREAS in the August 27, 2015 revision to the Water Supply & Distribution System Study a class D cost estimate was presented for supplying water to the Winds area;*

*AND WHEREAS during the September 14, 2015 regular meeting, the delegation from Koers stated that the number of homes covered in the Winds area is 190;*

*AND WHEREAS Figure 10 of the Water Supply & Distribution System Study shows a coverage area for 190 lots being much broader than just the Northwind/Southwind area (as attached to Councillor Coulson's submission);*

*THEREFORE, BE IT RESOLVED THAT Council requests that staff clarify the extent of the design estimate with Koers & Associates Engineering and report back to Council, and provide:*

- *Clarity on the area/boundary defined by "the Winds", as presented in the Water Supply & Distribution System Study;*
- *Confirmation on the number of homes covered in "the Winds" catchment area, as presented in the Water Supply & Distribution System Study.*

### DISCUSSION

Staff have spoken to the author of the study and they have provided clarity on the boundary of "the Winds" identified within the Koers 2015 Water Supply and Distribution System Study (the study) and is as follows:

Figure 10 (attached) identifies areas in the OCP that is within the Water Service Area Boundary, but is not currently serviced by the existing water system (areas within the bold blue lines). The polygon that includes properties on Northwind and Southwind Drives, Lorenzen Lane, Superior Road, Hobsons Road and also includes properties on the north side of the highway on Aats Road that make up the 190 total, which all are in the OCP Water Service Area Boundary.

In addition to the above, table 18 of the study indicates "Northwind/Southwind Rd area", number of connections at 190. It should be noted as above, included in the 190 connections are properties along Superior, Aats, Hobson's, Lorenzen, Southwind, and Northwind which are all identified in the polygon on Figure 10 but were not identified in Table 18.

Northwind, Southwind, Eastwind, and Westwind are included within the polygon in figure 10 and again in table 18 however, this does not constitute the identity of "the Winds" within table 31 proposed works in the study.

The "Winds" that are identified in the study within table 31 are shown on the attached drawing, Figure 1. The total properties within "the Winds" as it pertains to the 2015 Water Supply and Distribution Study equals 124.

As the local term "the Winds" is commonly used to identify an area in Lantzville, it may be prudent if Council was to delineate a specific area as "the Winds" for future use, failing that, Council may wish to direct staff to identify every street in future plans instead of referring to areas as "the Winds".

### FINANCIAL IMPLICATIONS

N/A

### SUMMARY

As noted above, Figure 10 identifies areas that are not serviced by the existing water system but is within the OCP Water Service Area.

The attached drawing outlines "the Winds" as it pertains to the cost allocation in Table 31 of the 2015 Koers Water Supply and Distribution Study.

As issues arise from studies and agreements regarding local terms such as "the Winds" it may be in the best interest of the municipality to not include such terms in the wording of future documents and identify areas by street names only.

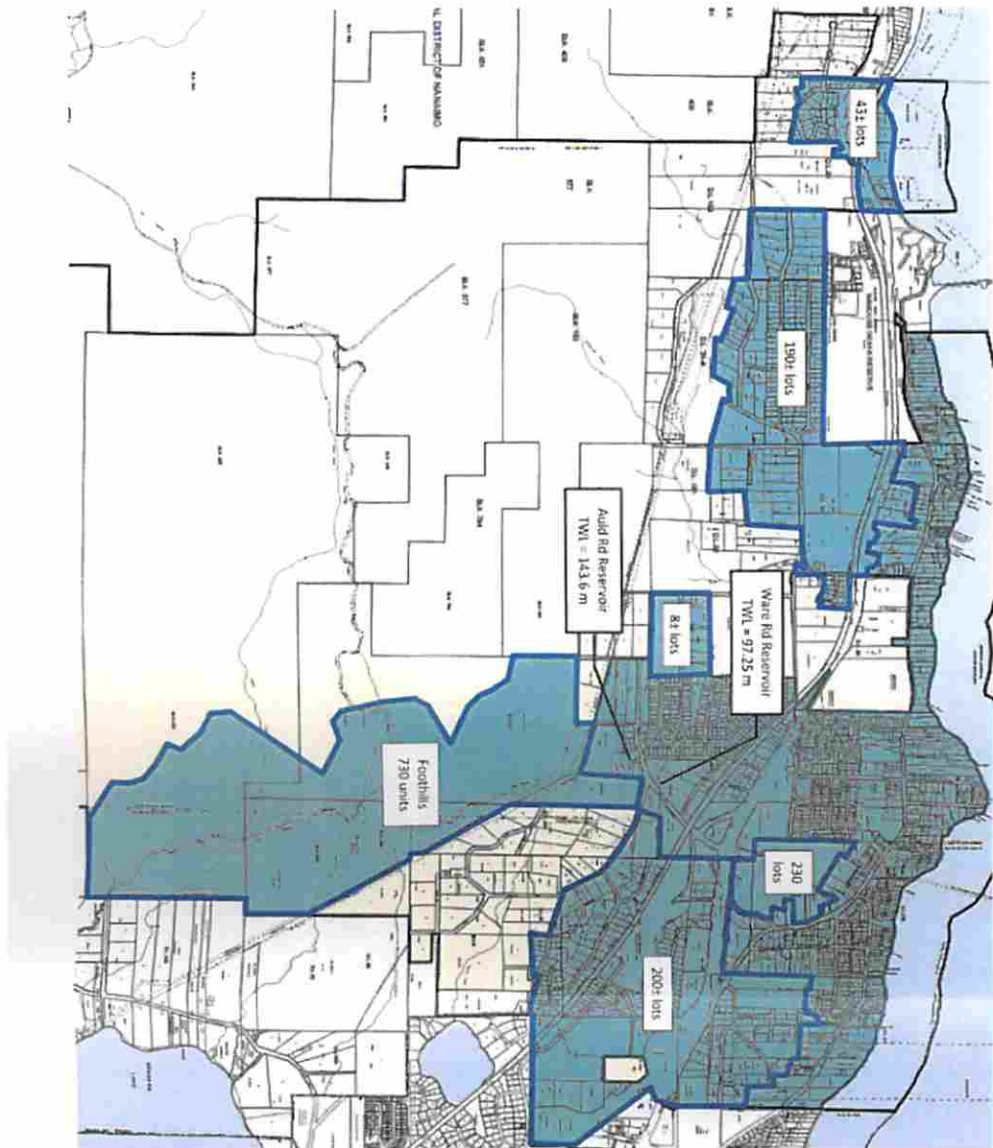
Respectfully submitted



Fred Spears  
Director of Public Works

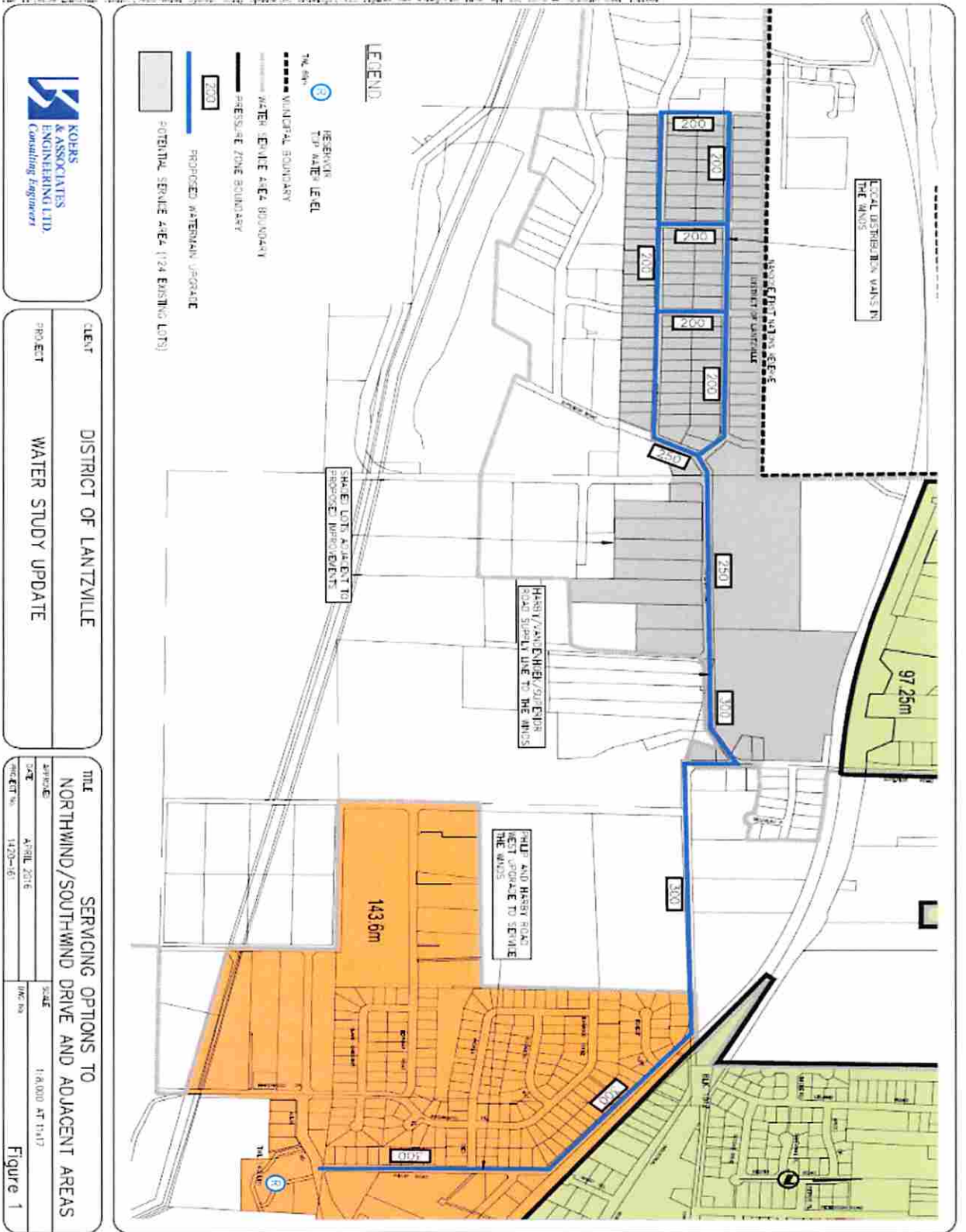
Reviewed By:

CAO 		Dir. CA		Dir. FS	
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Existing Properties within the OCP Water Service Area Boundary  
Previously Not Served by the Municipal Water System

FIGURE 10





**Table 18**  
**Service Area Water Demands based on 2014 Per Connection Demands**

Description	Number of Connections (#)	Average Day		Maximum Day		Maximum Week		Wellfield Capacity m <sup>3</sup> /day*	
		Individual m <sup>3</sup> /day	Cumulative m <sup>3</sup> /day	Ind. m <sup>3</sup> /day	Cum. m <sup>3</sup> /day	Ind. m <sup>3</sup> /day	Cum. m <sup>3</sup> /day	Current Pumps	Estimated Safe Yield
<b>YEAR 2014 - Existing System Total:</b>	885	687	687	1,421	1,421	1,227	1,227	2,027	2,424
<b>Extrapolated Demands if all existing properties in Lantzville were serviced (based on Year 2014 average demand per service connection)</b>									
Northwind/Southwind Rd area	190	148	148	305	305	263	263	2,027	2,424
Aulds/Elm Rd area	80	62	210	128	433	111	374	2,027	2,424
Clark/Blackjack Rd area	70	54	264	112	545	97	471	2,027	2,424
Owen Rd area	50	39	303	80	625	69	541	2,027	2,424
Bayview Park/Rumming/Sabre Rd area	43	33	336	69	694	60	600	2,027	2,424
Fernmar Rd area	8	6	342	13	707	11	612	2,027	2,424
Existing Developed areas Extrapolated Total:	441		342		707		612	2,027	2,424
Existing System + Existing Developed areas Extrapolated Total:	1,326		1,029		2,128		1,839	2,027	2,424
<b>Extrapolated Demands for Foothills and Village development (based on Year 2014 average demand per service connection)</b>									
Foothills	730	567	567	1,172	1,172	1,012	1,012	2,027	2,424
Village (Ware Rd) area	230	179	746	369	1,541	319	1,331	2,027	2,424
Foothills + Village Development Total:	960		746		1,541		1,331	2,027	2,424
Existing + Existing Developed + Foothills + Village Extrapolated Total:	2,286		1,775		3,669		3,170	2,027	2,424