

## 4 RSMM Field Sheet

Water Body Name: Unnamed Lake  
 Location (1/4 – Sec – Rge – Twp – Mer): SE-12-54-1-W5  
 Setback point location (UTM Coordinates): OP1  
 Land Owner: \_\_\_\_\_  
 Field Personnel: Deanna Cambridge  
 Date and Time: Aug 28, 2015

1. VEGETATION			
Cover Type (% cover)	Coefficients	Vegetation cover (%)	Baseline Setback (calculate)
Forest	0.10	<u>20</u>	<u>2</u>
Shrub	0.20	<u>50</u>	<u>10</u>
Herb/graminoid	0.30	<u>30</u>	<u>9</u>
Bare ground	0.50		
<b>TOTAL</b>			<u>21</u>
2. SLOPE SETBACK			
Slope Category (%)	Coefficients	Measured slope (%):	Baseline Setback (calculate)
0 - 20%	10 m + 1.0 m / %	<u>5</u>	<u>15</u>
>20%	Geotechnical study*		
<b>TOTAL</b>			<u>15</u>
3. GROUNDWATER SUSCEPTIBILITY			
Groundwater susceptibility	Coefficients (m)	Check one:	Baseline Setback
Extremely Low	10	<input checked="" type="radio"/>	<u>10</u>
Very Low	15	<input type="radio"/>	
Low	20	<input type="radio"/>	
Medium Low	30	<input type="radio"/>	
Medium	40	<input type="radio"/>	
High	50	<input type="radio"/>	
<b>TOTAL</b>			<u>10</u>
4. Highest Intensity Adjacent Land Use			
	Coefficients	Check one:	ESA Coefficient
Natural cover	1.0	<input type="radio"/>	
Agriculture	1.2	<input type="radio"/>	
Agriculture – intensive	1.6	<input type="radio"/>	
Agriculture – confined feeding operations	2.0	<input type="radio"/>	
Residential	1.4	<input checked="" type="radio"/>	<u>1.4</u>
Commercial	1.2	<input type="radio"/>	
Industrial	2.0	<input type="radio"/>	
<b>TOTAL</b>			<u>1.4</u>
5. OVERALL SETBACK			
			Overall Setback (calculate)
Baseline Setback	Largest from #1-3:	a)	<u>21</u>
Adjacent land use coefficient	Value from #4:	b)	<u>1.4</u>
<b>Total Overall Setback</b>		Multiply a and b:	<u>29.4</u>

\*A geotechnical study must be conducted for the site to determine appropriate setbacks, which must be no less than the value calculated by the RSMM. Areas with slopes greater than 20% do not contribute to further riparian buffer width in this case.

\*\*from Edmonton-Calgary Corridor Groundwater Atlas

## 4 RSMM Field Sheet

Water Body Name: Unnamed Lake  
 Location (1/4 – Sec – Rge – Twp – Mer): SE-12-34-1-W5  
 Setback point location (UTM Coordinates): OP2  
 Land Owner: \_\_\_\_\_  
 Field Personnel: Deanna Cambridge  
 Date and Time: Aug 28, 2015

1. VEGETATION			
Cover Type (% cover)	Coefficients	Vegetation cover (%)	Baseline Setback (calculate)
Forest	0.10	<u>10</u>	<u>1</u>
Shrub	0.20	<u>60</u>	<u>12</u>
Herb/graminoid	0.30	<u>30</u>	<u>9</u>
Bare ground	0.50		
<b>TOTAL</b>			<u>22</u>

  

2. SLOPE SETBACK			
Slope Category (%)	Coefficients	Measured slope (%):	Baseline Setback (calculate)
0 - 20%	10 m + 1.0 m / %	<u>2</u>	<u>12</u>
>20%	Geotechnical study*		
<b>TOTAL</b>			<u>12</u>

  

3. GROUNDWATER SUSCEPTIBILITY			
Groundwater susceptibility	Coefficients (m)	Check one:	Baseline Setback
Extremely Low	10	<input checked="" type="checkbox"/>	<u>10</u>
Very Low	15	<input type="checkbox"/>	
Low	20	<input type="checkbox"/>	
Medium Low	30	<input type="checkbox"/>	
Medium	40	<input type="checkbox"/>	
High	50	<input type="checkbox"/>	
<b>TOTAL</b>			<u>10</u>

  

4. Highest Intensity Adjacent Land Use			
	Coefficients	Check one:	ESA Coefficient
Natural cover	1.0	<input type="checkbox"/>	
Agriculture	1.2	<input type="checkbox"/>	
Agriculture – intensive	1.6	<input type="checkbox"/>	
Agriculture – confined feeding operations	2.0	<input type="checkbox"/>	
Residential	1.4	<input checked="" type="checkbox"/>	<u>1.4</u>
Commercial	1.2	<input type="checkbox"/>	
Industrial	2.0	<input type="checkbox"/>	
<b>TOTAL</b>			<u>1.4</u>

  

5. OVERALL SETBACK			
			Overall Setback (calculate)
Baseline Setback	Largest from #1-3:	a)	<u>22</u>
Adjacent land use coefficient	Value from #4:	b)	<u>1.4</u>
<b>Total Overall Setback</b>	Multiply a and b:		<u>30.8</u>

\*A geotechnical study must be conducted for the site to determine appropriate setbacks, which must be no less than the value calculated by the RSMM. Areas with slopes greater than 20% do not contribute to further riparian buffer width in this case.

\*\*from Edmonton-Calgary Corridor Groundwater Atlas

## 4 RSMM Field Sheet

Water Body Name: Unnamed Lake  
 Location (1/4 – Sec – Rge – Twp – Mer): SE-12-54-1-W5  
 Setback point location (UTM Coordinates): OP 3  
 Land Owner: \_\_\_\_\_  
 Field Personnel: Deanna Cambridge  
 Date and Time: Aug 28, 2015

1. VEGETATION			
Cover Type (% cover)	Coefficients	Vegetation cover (%)	Baseline Setback (calculate)
Forest	0.10		
Shrub	0.20	10	2
Herb/graminoid	0.30	70	21
Bare ground	0.50	20	10
<b>TOTAL</b>			<b>33</b>

  

2. SLOPE SETBACK			
Slope Category (%)	Coefficients	Measured slope (%):	Baseline Setback (calculate)
0 - 20%	10 m + 1.0 m / %	1	11
>20%	Geotechnical study*		
<b>TOTAL</b>			<b>11</b>

  

3. GROUNDWATER SUSCEPTIBILITY			
Groundwater susceptibility	Coefficients (m)	Check one:	Baseline Setback
Extremely Low	10	<input checked="" type="radio"/>	10
Very Low	15	<input type="radio"/>	
Low	20	<input type="radio"/>	
Medium Low	30	<input type="radio"/>	
Medium	40	<input type="radio"/>	
High	50	<input type="radio"/>	
<b>TOTAL</b>			<b>10</b>

  

4. Highest Intensity Adjacent Land Use			
	Coefficients	Check one:	ESA Coefficient
Natural cover	1.0	<input type="radio"/>	
Agriculture	1.2	<input type="radio"/>	
Agriculture – intensive	1.6	<input type="radio"/>	
Agriculture – confined feeding operations	2.0	<input type="radio"/>	
Residential	1.4	<input checked="" type="radio"/>	1.4
Commercial	1.2	<input type="radio"/>	
Industrial	2.0	<input type="radio"/>	
<b>TOTAL</b>			<b>1.4</b>

  

5. OVERALL SETBACK			
			Overall Setback (calculate)
Baseline Setback	Largest from #1-3:	a)	33
Adjacent land use coefficient	Value from #4:	b)	1.4
<b>Total Overall Setback</b>		<b>Multiply a and b:</b>	<b>46.2</b>

\*A geotechnical study must be conducted for the site to determine appropriate setbacks, which must be no less than the value calculated by the RSMM. Areas with slopes greater than 20% do not contribute to further riparian buffer width in this case.

\*\*from Edmonton-Calgary Corridor Groundwater Atlas