



# **FOX CREEK TO NAMAQ JUNCTION EXPANSION PIPELINE PROJECT**

## **2015 WHITE AREA PRE-CONSTRUCTION WEED SURVEY REPORT**

OCTOBER 2015



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BOREAL PROJECT NO: 16056

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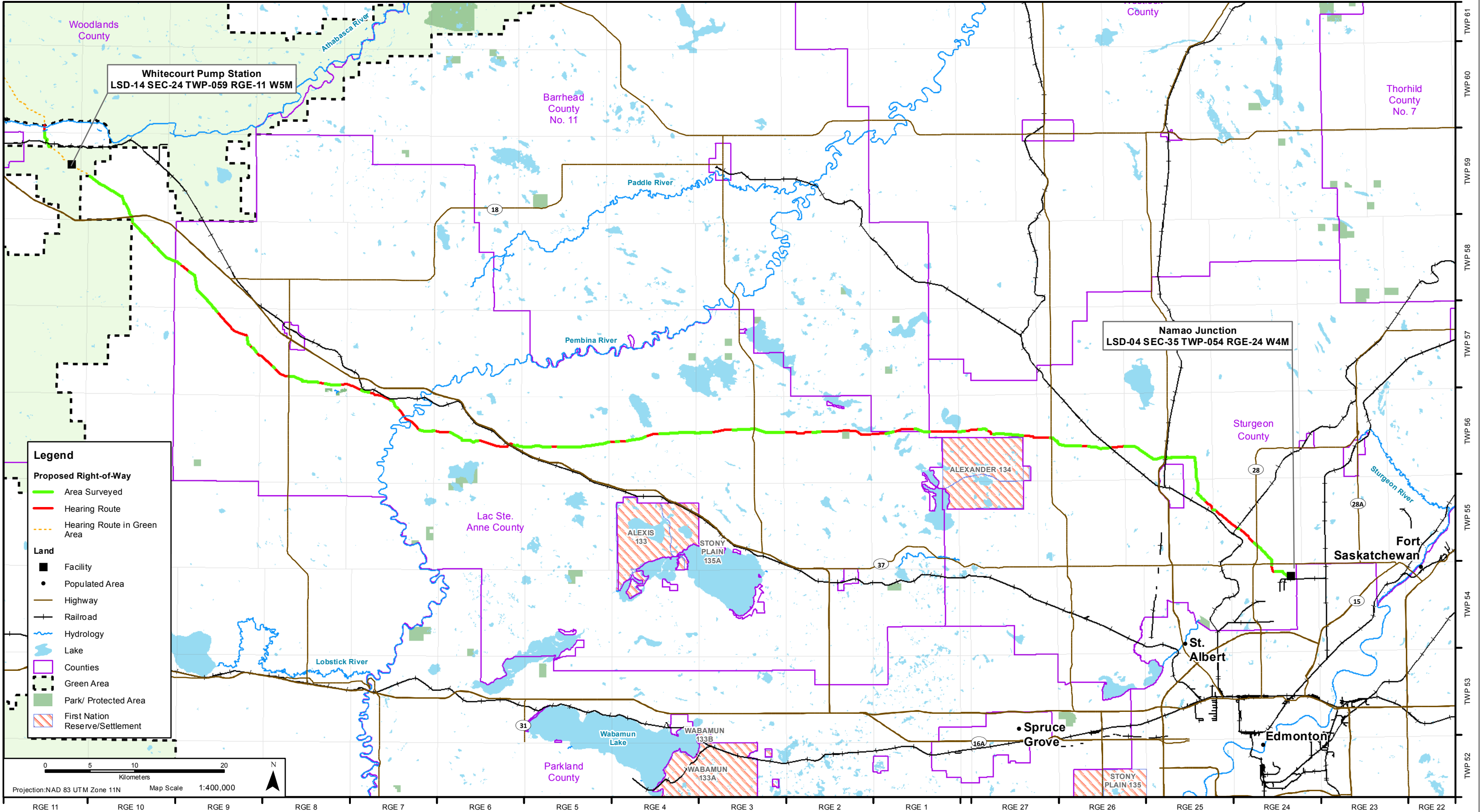
## 1 INTRODUCTION

Pembina Pipeline Corporation (Pembina) is proposing to construct the Fox Creek to Namao Junction Expansion Pipeline Project (Project) to connect existing and future supplies of hydrocarbon liquids from its facility in the Fox Creek area to existing processing facilities located north of Edmonton, Alberta. The Project consists of two, approximately 268 km pipelines that will be constructed concurrently and installed in the same trench. The proposed pipeline route traverses both Crown and private lands in both the White and Green Areas of the province, and extends east from Pembina's existing Fox Creek Pump Station (Legal Subdivision (LSD) 08-36-062-20 W5M) to Pembina's existing Namao Junction (LSD 04-35-054-24 W4M) (Figure 1). The proposed pipelines are Nominal Pipe Size (NPS) 16 inches (206.4 mm outside diameter (O.D.)) and NPS 24 inches (609.6 mm O.D.) and have been designed to transport High Vapour Pressure (HVP) hydrocarbon liquids: a mix of C2+, C3+ and C5+. The construction right-of-way (RoW) will consist of a permanent RoW width of 35 m with an additional 10 m wide temporary workspace (TWS) for pipeline construction. Given its total length and the pipeline diameter, the Project is a Class I pipeline according to the 2,690 pipeline index threshold.

Approximately 162 km of the proposed route lies in the White Area, with the remaining approximately 106 km located in the Green Area. A Conservation and Reclamation (C&R) report was submitted on September 2, 2014 (the Boreal Group Inc. (Boreal) 2014a) to the Alberta Energy Regulator (AER) for *Environmental Protection and Enhancement Act* (EPEA) Approval for the portion of the Project within the White Area of the province. Pipeline Agreement (PLA) applications with supporting Environmental Field Reports (EFRs) have been completed for the Crown portion of the Project including Crown lands in both the Green and White Areas.

Vegetation surveys were conducted along the proposed Project route in 2014 in support of the Project's regulatory applications (Boreal 2014b,c). A pre-construction weed survey was conducted along the Project route in 2015 to determine the presence, abundance and distribution of weed species along the route. This report provides the results of the 2015 weed survey.

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**PEMBINA PIPELINE CORPORATION**  
**FOX CREEK TO NAMAQ EXPANSION PIPELINE PROJECT**  
LSD 08-36-62-20-W5M TO 04-35-54-24-W4M  
**WEED OVERVIEW**



DOCUMENT REFERENCE : 20-512-FCN\_Weeds\_Overview-01-20151026

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## 2 METHODS

A desktop review of existing information sources and 2014 vegetation field survey data was completed for the White Area portion of the Project. The following background information regarding vegetation resources along the Project has previously been provided (Boreal 2014a,b, Boreal 2015a) and will not be reprised in this report:

- incidental non-native and invasive (“weed”) species observations and their respective abundances recorded during the 2014 vegetation surveys (Appendix B, Table B-2 of Boreal 2014b); and
- a Weed Management Plan, which includes mitigation measures intended to minimize the spread of weeds during construction (Section 15.3 of the Environmental Protection Plan (EPP) (Boreal 2015a).

The following background information was previously provided (Boreal 2014a), however, it has subsequently been revised and is now outdated:

- a list of weed species of concern within the Counties crossed by the proposed route (Table 4-7 of Boreal 2014a) (Counties are depicted on Figure 1).

Updated County weeds of concern are provided in Section 2.2 of this report.

### 2.1 Nomenclature

Nomenclature throughout this report follows the Alberta *Weed Control Regulation*, where applicable (i.e., for weed species listed under the *Regulation*), and the ACIMS vascular plants element list (ACIMS 2015a) otherwise (i.e., for non-listed, non-native species). Where *Regulation* nomenclature differs from ACIMS’, the ACIMS name is provided in brackets following the first mention of the species’ name in text.

### 2.2 Species of Concern

Weed species of concern reported by the Counties crossed by the Project route are presented in Table 2-1.

Alberta municipalities have the authority to up-list weed species within their jurisdictions (i.e., increase the current designation of a given species under the Alberta *Weed Control Act* to a more serious designation), however, the Counties crossed by the Project route have not up-listed any species within their respective boundaries.

**Table 2-1: Weed Species of Concern within Counties along the Proposed Fox Creek to Namao Junction Expansion Pipeline Project in the White Area**

County	Common Name <sup>1</sup>	Scientific Name	Provincial Status <sup>2</sup>
Woodlands County	Canada thistle (creeping thistle)	<i>Cirsium arvense</i>	Noxious
	common tansy	<i>Tanacetum vulgare</i>	Noxious
	hawkweed species	<i>Hieracium</i> spp.	Prohibited Noxious
	oxeye daisy	<i>Leucanthemum vulgare</i>	Noxious
	scentless chamomile	<i>Tripleurospermum inodorum</i>	Noxious
	tall buttercup	<i>Ranunculus acris</i>	Noxious
Lac Ste. Anne County	Canada thistle	<i>Cirsium arvense</i>	Noxious
	common tansy	<i>Tanacetum vulgare</i>	Noxious
	field scabious	<i>Knautia arvensis</i>	Noxious
	hawkweed species	<i>Hieracium</i> spp.	Prohibited Noxious
	oxeye daisy	<i>Leucanthemum vulgare</i>	Noxious
	scentless chamomile	<i>Tripleurospermum inodorum</i>	Noxious
	perennial sow thistle	<i>Sonchus arvensis</i>	Noxious
	tall buttercup	<i>Ranunculus acris</i>	Noxious
	yellow toadflax (common toadflax)	<i>Linaria vulgaris</i>	Noxious
County of Barrhead No. 11	Canada thistle	<i>Cirsium arvense</i>	Noxious
	common tansy	<i>Tanacetum vulgare</i>	Noxious
	field scabious	<i>Knautia arvensis</i>	Noxious
	leafy spurge	<i>Euphorbia esula</i>	Noxious
	orange hawkweed	<i>Hieracium aurantiacum</i>	Prohibited Noxious
	oxeye daisy	<i>Leucanthemum vulgare</i>	Noxious
	perennial sow thistle	<i>Sonchus arvensis</i>	Noxious
	scentless chamomile	<i>Tripleurospermum inodorum</i>	Noxious

**Table 2-1: Cont'd**

County	Common Name <sup>1</sup>	Scientific Name	Provincial Status <sup>2</sup>
Sturgeon County	Canada thistle	<i>Cirsium arvense</i>	Noxious
	common tansy	<i>Tanacetum vulgare</i>	Noxious
	dame's rocket	<i>Hesperis matronalis</i>	Noxious
	field scabious	<i>Knautia arvensis</i>	Noxious
	great burdock	<i>Arctium lappa</i>	Noxious
	Himalayan balsam	<i>Impatiens glandulifera</i>	Prohibited Noxious
	leafy spurge	<i>Euphorbia esula</i>	Noxious
	orange hawkweed	<i>Hieracium aurantiacum</i>	Prohibited Noxious
	oxeye daisy	<i>Leucanthemum vulgare</i>	Noxious
	perennial sow thistle	<i>Sonchus arvensis</i>	Noxious
	purple loosestrife	<i>Lythrum salicaria</i>	Prohibited Noxious
	scentless chamomile	<i>Tripleurospermum inodorum</i>	Noxious
	spotted knapweed	<i>Centaurea stoebe</i> ssp. <i>micranthos</i>	Prohibited Noxious
	tall buttercup	<i>Ranunculus acris</i>	Noxious
	white cockle	<i>Silene latifolia</i> ssp. <i>alba</i>	Noxious
	yellow toadflax	<i>Linaria vulgaris</i>	Noxious

**Sources:** ACIMS 2015a, Sturgeon County 2011a, Woodlands County (Date Unknown), Dawn Fortin (pers. comm. 2014, 2015), Glen Kummer (pers. comm. 2014, 2015), Angela Veenstra (pers. comm. 2014), Marilyn Flock (pers. comm. 2014), Kyle Meunier (pers. comm. 2015).

**Notes:**

- 1 Nomenclature follows the Alberta *Weed Control Act* if listed and ACIMS 2015a if not listed.
- 2 As designated under the Alberta *Weed Control Act*.

## 2.3 Site Selection

All quarter sections where land access permissions were in place at the time of the weed survey were subject to survey in 2015.

## 2.4 Survey Area

The 2015 weed survey for the Project encompassed approximately 94.1 km (58.1 %) of the total proposed White Area portion of the Project route.

## 2.5 Data Collection

Incidental non-native and invasive species observations and their respective abundances were recorded during the 2014 vegetation surveys (Appendix B, Table B-2 of Boreal 2014b). However, due to the colonizing and often aggressive nature of weed species, as well as land management practices employed by individual landowners, weed presence and abundance can change rapidly over time. A pre-construction weed survey was therefore conducted to provide more complete characterization of baseline weed conditions along the route in the season prior to construction; weeds were a primary,

rather than an incidental, focus of the 2015 surveys. The 2015 pre-construction weed survey results supplant the 2014 vegetation survey weed results.

The 2015 pre-construction weed survey included all quarter sections where land access permissions were in place. For each unit of land ownership or management surveyed (*e.g.*, by quarter section or differing land use, whichever was smaller), all weed species observed were recorded; a distribution code from 1-13 was assigned following the distribution guide described by Adams et al. (2009) (Appendix A, Table A-1); and a density code from 1-4 was assigned following the BC Invasive Alien Plant Program (IAPP) form (BC Ministry of Forests, Lands and Natural Resource Operations (MFLNRO) (date unknown) (Appendix A, Table A-2). Determination of species as native or non-native followed the ACIMS complete element list (ACIMS 2015a). Additional spatial information useful in further targeting weed location within the land management unit being surveyed (*e.g.*, patch size and coordinates) was also collected. Weed species were identified using regionally-appropriate reference materials (*e.g.*, Dickinson and Royer 1999, Moss 1983, Whitson 2012).

## **2.6 Clubroot**

Clubroot prevention measures were implemented during the weed survey before entering into or moving between lands under annual crop production: footwear and small equipment (*e.g.*, trowels) were thoroughly cleaned of soil and debris and sanitized using a bleach solution between fields to prevent the spread of soil-borne crop diseases such as clubroot, as well as weeds.



### 3 RESULTS

The weed survey for the White Area portion of the Project occurred from August 9-19, 2015.

#### 3.1 Non-native and Invasive Species

No plant species designated under the *Weed Control Act* as Prohibited Noxious weeds were observed during the White Area pre-construction weed survey. The following 9 Noxious weed species were observed during the survey:

- Canada thistle (creeping thistle) (*Cirsium arvense*);
- common tansy (*Tanacetum vulgare*);
- Japanese brome (Japanese chess) (*Bromus japonicus*);
- oxeye daisy (*Leucanthemum vulgare*);
- perennial sow thistle (*Sonchus arvensis*);
- scentless chamomile (*Tripleurospermum inodorum*);
- tall buttercup (*Ranunculus acris*);
- white cockle (*Silene latifolia* species *alba*); and
- yellow toadflax (common toadflax) (*Linaria vulgaris*).

Under the Alberta *Weed Control Act*, plant species designated as Noxious weeds must be controlled by the owner or occupant of those lands on which the species are present.

Numerous non-native plant species that are not designated under the *Weed Control Act* were also observed during the weed survey. All weed observations made during the 2015 weed survey are provided in Table A-3 (Appendix A), arranged by legal location.

## **4 DISCUSSION AND RECOMMENDATIONS**

### **4.1 Weed Surveys**

A weed survey was conducted on a large proportion of lands traversed by the Project in the White Area (approximately 94.1 km (58.1 %)). However, weeds are typically abundant in lands under agricultural use (i.e., the majority of White Area lands crossed by the Project), and different land management practices affect weed presence, abundance and distribution. Consequently, it is likely that additional weed infestations exist along unsurveyed portions of the route. It is therefore recommended that a pre-construction weed survey be completed along all lands crossed by the proposed route within the White Area that were not subject to survey in 2015, in order to develop an accurate baseline record of weed conditions on those lands and inform appropriate application of weed mitigation measures during construction.

### **4.2 Mitigation**

The 2015 weed survey results are provided in Table A-3 (Appendix A). Conscientious application of weed control measures denoted in the Weed Management Plan of the Project EPP (Section 15.3 of Boreal 2015a) are expected to minimize the spread of weeds during Project construction. These measures remain applicable and valid to the site conditions observed during field studies along the proposed route in 2015 and, therefore, were determined not to require revision.

Mitigation measures in the Project EPP are expected to allow Pembina's Environmental Inspector (EI) to effectively address any additional weeds of concern discovered prior to or during construction.

### **4.3 Reclamation and Monitoring**

Clean-up and reclamation measures are provided the Project EPP (Section 12 of Boreal 2015a). Pembina will conduct a Post Construction Reclamation Assessment (PCRA) to determine the effectiveness of mitigation measures on weeds, among other items, in the White Area, as directed under EPEA and the *Conservation and Reclamation Regulation*. The PCRA will be based on the *Reclamation Assessment Criteria for Pipelines: 2001 Draft* (Government of Alberta 2001), or the most recent reclamation criteria available at the time of reclamation.

#### **4.3.1 Errata**

The 2014 White Area Vegetation Survey Report (Boreal 2014b) incorrectly stated that PCRA for the Project would be based on the *2010 Reclamation Criteria for Wellsites and Associated Facilities* (GOA 2013). Rather, the PCRA will be developed as noted in Section 4.3 above.

## **5 REFERENCES**

### **5.1 Personal Communications**

Flock, Marilyn. July 30, 2014. Agricultural Fieldman, County of Barrhead. Barrhead, Alberta.

Fortin, Dawn. July 29, 2014. Agricultural Services Manager, Woodlands County. Whitecourt, Alberta.

Fortin, Dawn. October 5, 2015. Agricultural Services Manager, Woodlands County. Whitecourt, Alberta.

Meunier, Kyle. October 15, 2015. Assistant Agricultural Fieldman, County of Barrhead. Barrhead, Alberta.

Kummer, Glen. July 29, 2014. Agricultural Services Manager, Lac Ste. Anne County. Sangudo, Alberta.

Kummer, Glen. October 7, 2015. Agricultural Services Manager, Lac Ste. Anne County. Sangudo, Alberta.

Veenstra, Angela. July 28, 2014. Agricultural Services Manager, Sturgeon County. Morinville, Alberta.

### **5.2 Literature Cited**

Adams, B.W., G. Ehler, C. Stone, D. Lawrence, M. Alexander, M. Willoughby, C. Hincz, D. Moisey, A. Burkinshaw, J. Carlson and K. France. 2009. Rangeland Health Assessment for Grassland, Forest and Tame Pasture. Rangeland Management Branch, Lands Division, Alberta Sustainable Resource Development. Lethbridge, Alberta. Pub. No. T/044. 128 pp.

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- Whitson, Tom D. (ed.) 2012. Weeds of the West. 11th ed. The Western Society of Weed Science. Las Cruces, New Mexico. 628 pp.

## Appendix A: Weeds

**Table A-1: Weed Distribution Codes**

Class	Description of abundance in polygon	Distribution
0	None	
1	Rare	
2	A few sporadically occurring individual plants	
3	A single patch	
4	A single patch plus a few sporadically occurring plants	
5	Several sporadically occurring plants	
6	A single patch plus several sporadically occurring plants	
7	A few patches	
8	A few patches plus several sporadically occurring plants	
9	Several well spaces patches	
10	Continuous uniform occurrences of well spaces plants	
11	Continuous occurrence of plants with a few gaps in the distribution	
12	Continuous dense occurrence of plants	
13	Continuous occurrence of plants with a distinct linear edge in the polygon	

Source: Adams et al. 2009

**Table A-2: Weed Density Codes**

Density Code	Definition
1	< 1 plant/m <sup>2</sup>
2	2-5 plants/m <sup>2</sup>
3	6-10 plants/m <sup>2</sup>
4	> 10 plants/m <sup>2</sup>

Source: BC MFLNRO data unknown

**Table A-3: 2015 Weed Survey Results**

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
<b>Woodlands County</b>							
NW 34-059-11 W5M	road	ditch	alfalfa	not listed	13	1	--
			common plantain	not listed	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
	shelterbelt	field line	<b>Canada thistle</b>	Noxious	13	1	--
			cleavers	not listed	13	1	
			dandelion	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			shepherd's-purse	not listed	13	1	
			stinkweed	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	chickweed species	not listed	5	1	--
			cleavers	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
			wild oat	not listed	2	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	4	The Project RoW parallels weedy field line within this parcel. An approximately 3 m x 3 m weedy patch of Japanese brome located at: 593783 E 6000876 N (Zone 11 N, NAD 83).
			<b>Japanese brome</b>	Noxious	3	1	
			<b>perennial sow thistle</b>	Noxious	13	1	
			alsike clover	not listed	13	1	
			cleavers	not listed	13	3	
			dandelion	not listed	13	1	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			lamb's-quarters	not listed	4	1	
			night-flowering catchfly	not listed	4	1	
			prickly annual sow-thistle	not listed	13	1	
			smooth brome	not listed	4	1	
			water smartweed	not listed	4	1	
			wild oat	not listed	13	1	
NE 34-059-11 W5M	native forest	undisturbed	<b>Canada thistle</b>	Noxious	5	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	2	1	
			marsh hedge-nettle	not listed	3	1	
SE 34-059-11 W5M	native forest	undisturbed	no weed species observed	n/a	n/a	n/a	--
NE 18-059-10 W5M	native forest	undisturbed	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	2	1	
NW 17-059-10 W5M	annual crop	cultivation	<b>oxeye daisy</b>	Noxious	5	1	Several oxeye daisy plants were observed within this parcel.
			corn spurry	not listed	1	1	
			dandelion	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
			volunteer oats	not listed	5	1	
			wild buckwheat	not listed	2	1	
SW 17-059-10 W5M	tame grass	field line	<b>oxeye daisy</b>	Noxious	3	4	A dense patch of oxeye daisy was observed at: 600076 E 5995894 N (Zone 11, NAD 83).

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	tame grass	hay	tall buttercup	Noxious	5	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	5	1	
SE 17-059-10 W5M	tame grass	hay	Canada thistle	Noxious	6	1	A few oxeye daisy and tall buttercup plants were observed at low densities both on and off the Project RoW.
			oxeye daisy	Noxious	2	1	
			tall buttercup	Noxious	5	2	
			dandelion	not listed	5	2	
			stinkweed	not listed	2	1	
SW 16-059-10 W5M	tame grass	hay	Canada thistle	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	2	1	
			dandelion	not listed	5	1	
NW 09-059-10 W5M	tame grass	pasture	Canada thistle	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	5	1	
			common plantain	not listed	2	1	
			dandelion	not listed	10	2	
			knotweed species	not listed	2	1	
			pineappleweed	not listed	2	1	
NE 09-059-10 W5M	tame grass	pasture	Canada thistle	Noxious	2	1	A few oxeye daisy and tall buttercup plants were observed at low densities both on and off the Project RoW.
			oxeye daisy	Noxious	2	1	
			perennial sow thistle	Noxious	2	1	
			tall buttercup	Noxious	2	1	
			dandelion	not listed	2	1	
SE 09-059-10 W5M	tame grass	pasture	Canada thistle	Noxious	8	1	A few oxeye daisy and tall buttercup plants were observed at low densities both on and off the Project RoW.
			oxeye daisy	Noxious	2	1	
			tall buttercup	Noxious	2	1	
			dandelion	not listed	10	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	native forest	pasture	lamb's-quarters	not listed	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>Canada thistle</b>	Noxious	11	1	
			<b>tall buttercup</b>	Noxious	2	1	
			dandelion	not listed	5	1	
SW 10-059-10 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	11	2	Canada thistle density was observed to be high within this parcel. A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	1	
			dandelion	not listed	5	1	
NW 03-059-10 W5M	tame grass	pasture	dandelion	not listed	10	1	--
	tame grass	hay	dandelion	not listed	5	2	--
			lamb's-quarters	not listed	3	1	
			stinkweed	not listed	3	1	
			sweet-clover species	not listed	2	1	
SW 03-059-10 W5M	native grass	pasture	<b>Canada thistle</b>	Noxious	8	1	--
			dandelion	not listed	5	1	
	shelterbelt	field line	red-root pigweed	not listed	3	1	--
			stinkweed	not listed	3	1	
			sweet-clover species	not listed	3	1	
SE 03-059-10 W5M	road	ditch	sweet-clover species	not listed	13	1	--
	existing RoW	pasture	<b>Canada thistle</b>	Noxious	8	1	The Project RoW parallels a weedy existing RoW within this parcel for 480 m (crosses a Hwy 43 perpendicularly). A few tall buttercup plants were observed at low densities both
			<b>tall buttercup</b>	Noxious	5	1	
			dandelion	not listed	10	1	
NW 34-058-10 W5M	native forest	pasture	common plantain	not listed	2	1	--
			sweet-clover species	not listed	2	1	
	existing RoW	pasture	<b>Canada thistle</b>	Noxious	8	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			tall buttercup	Noxious	5	1	The Project RoW parallels a weedy existing RoW within this parcel for 650 m. A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	10	1	
	tame grass	field line	common plantain	not listed	5	1	--
	tame grass	hay	Canada thistle	Noxious	8	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	10	2	
			night-flowering catchfly	not listed	2	1	
			sweet-clover species	not listed	2	1	
	tame grass	field line	Canada thistle	Noxious	13	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	11	1	
	tame grass	hay	Canada thistle	Noxious	8	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	11	1	
SW 34-058-10 W5M	tame grass	field line	Canada thistle	Noxious	13	1	--
	tame grass	pasture	tall buttercup	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			common plantain	not listed	2	1	
			dandelion	not listed	11	1	
SE 34-058-10 W5M	tame grass	hay	Canada thistle	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	2	1	
			dandelion	not listed	5	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
NE 27-058-10 W5M	tame grass	hay	Canada thistle	Noxious	3	1	--
			dandelion	not listed	5	2	
NW 26-058-10 W5M	tame grass	pasture	Canada thistle	Noxious	8	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	5	1	
			dandelion	not listed	10	3	
SE 26-058-10 W5M	tame grass	hay	Canada thistle	Noxious	8	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	10	3	
			dandelion	not listed	2	1	
NE 23-058-10 W5M	tame grass	hay	tall buttercup	Noxious	5	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	5	2	
NW 24-058-10 W5M	native forest	undisturbed	no weed species observed	n/a	n/a	n/a	
	tame grass	hay	Canada thistle	Noxious	3	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			tall buttercup	Noxious	5	1	
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
SW 24-058-10 W5M	tame grass	hay	Canada thistle	Noxious	3	1	--
			perennial sow thistle	Noxious	3	1	
			dandelion	not listed	10	3	
SE 24-058-10 W5M	tame grass	hay	perennial sow thistle	Noxious	1	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
			tall buttercup	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			common plantain	not listed	1	1	
			dandelion	not listed	10	2	
Lac Ste. Anne County							

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
SW 19-058-09 W5M	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	3	1	
			dandelion	not listed	11	4	
SW 17-058-09 W5M	native forest	pasture	no weed species observed	n/a	n/a	n/a	--
	existing RoW	pasture	<b>Canada thistle</b>	Noxious	9	3	The Project RoW parallels a weedy existing RoW for 300 m. A few white cockle plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	10	3	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	4	1	--
			flixweed	not listed	2	1	
			stinkweed	not listed	2	1	
			volunteer wheatgrass species	not listed	8	3	
			wild buckwheat	not listed	2	1	
			<b>Canada thistle</b>	Noxious	5	2	Approximately 30 m x 30 m weedy patch was observed within a wetland. A few white cockle plants were observed at low densities both on and off the Project RoW.
			<b>white cockle</b>	Noxious	2	1	
			annual hawk's-beard	not listed	1	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	5	2	
NW 08-058-09 W5M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	4	1	--
			dandelion	not listed	2	1	
			wild buckwheat	not listed	2	1	
NE 08-058-09 W5M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	4	1	--
			dandelion	not listed	2	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			wild buckwheat	not listed	13	1	
SE 08-058-09 W5M	annual crop	field line	<b>Canada thistle</b>	Noxious	3	1	--
			smooth brome	not listed	3	1	
			wild buckwheat	not listed	3	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			common plantain	not listed	2	1	
			knotweed species	not listed	2	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	3	1	--
			smooth brome	not listed	3	1	
			wild buckwheat	not listed	3	1	
NE 05-058-09 W5M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			alfalfa	not listed	13	1	
			dandelion	not listed	13	1	
			flixweed	not listed	13	1	
			knotweed species	not listed	13	1	
			night-flowering catchfly	not listed	13	1	
			smooth brome	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	--
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>perennial sow thistle</b>	Noxious	2	1	
			<b>tall buttercup</b>	Noxious	2	1	
			alfalfa	not listed	13	1	
			dandelion	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			flixweed	not listed	13	1	
			knotweed species	not listed	13	1	
			night-flowering catchfly	not listed	13	1	
			smooth brome	not listed	13	1	
			wild buckwheat	not listed	13	1	
NW 04-058-09 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	2	
			common plantain	not listed	2	1	
			dandelion	not listed	5	2	
	annual crop	field line	<b>Canada thistle</b>	Noxious	8	2	--
	annual crop	cultivation	dandelion	not listed	2	1	--
			lamb's-quarters	not listed	2	1	
			night-flowering catchfly	not listed	2	1	
			prickly annual sow-thistle	not listed	2	1	
			stinkweed	not listed	5	2	
			wild buckwheat	not listed	5	2	
SW 04-058-09 W5M	annual crop	field line	dandelion	not listed	4	1	--
	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	--
	annual crop	field line	<b>Canada thistle</b>	Noxious	3	1	A few oxeye daisy plants were observed at low densities both on and off the Project RoW.
			<b>oxeye daisy</b>	Noxious	2	1	
SE 04-058-09 W5M	tame grass	hay	<b>Canada thistle</b>	Noxious	3	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	2	
			dandelion	not listed	5	2	
	tame grass	pasture	<b>tall buttercup</b>	Noxious	8	2	
			common plantain	not listed	5	2	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			dandelion	not listed	10	3	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
NE 33-057-09 W5M	tame grass	hay	<b>tall buttercup</b>	Noxious	5	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	10	3	
	annual crop	field line	dandelion	not listed	7	1	Canada thistle density was observed to be high within this parcel.
	annual crop	cultivation	flixweed	not listed	2	1	Canada thistle density was observed to be high within this parcel.
			lamb's-quarters	not listed	2	1	
			marsh hedge-nettle	not listed	11	3	
			wild buckwheat	not listed	5	1	
			wild mustard	not listed	5	2	
			wild oat	not listed	5	1	
			<b>Canada thistle</b>	Noxious	8	3	Approximately 30 m x 30 m weedy patch was observed within a wetland.Canada thistle density was observed to be high within this parcel.
			ball mustard	not listed	2	1	
			dandelion	not listed	7	1	
			smooth brome	not listed	8	3	
			stinkweed	not listed	2	1	
NW 24-057-09 W5M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			alsike clover	not listed	8	1	
			dandelion	not listed	8	1	
			sweet-clover species	not listed	13	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			alsike clover	not listed	8	1	
			common plantain	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			dandelion	not listed	8	1	
			flixweed	not listed	3	1	
			foxtail barley	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			night-flowering catchfly	not listed	8	1	
			sweet-clover species	not listed	2	1	
			wild buckwheat	not listed	2	1	
	native grass	pasture	<b>Canada thistle</b>	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	2	1	
			dandelion	not listed	4	1	
SE 24-057-09 W5M	native grass	pasture	no weed species observed	n/a	n/a	n/a	--
NE 07-057-08 W5M	tame grass	hay	common plantain	not listed	2	1	--
			dandelion	not listed	5	2	
SW 09-057-08 W5M	native forest	disturbed	<b>perennial sow thistle</b>	Noxious	6	1	A few white cockle and tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	2	1	
			<b>white cockle</b>	Noxious	3	1	
			dandelion	not listed	4	1	
			prickly annual sow-thistle	not listed	5	1	
			stinkweed	not listed	2	1	
			wild buckwheat	not listed	4	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	A few white cockle and tall buttercup plants were observed at low densities both on and off the Project RoW.
			wild oat	not listed	13	1	
	annual crop	cultivation	cleavers	not listed	4	1	--
			wild buckwheat	not listed	5	1	
SE 09-057-08 W5M	annual crop	cultivation	alfalfa	not listed	5	1	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			foxtail barley	not listed	8	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
NE 04-057-08 W5M	annual crop	cultivation	alfalfa	not listed	5	1	--
			foxtail barley	not listed	8	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
NW 03-057-08 W5M	road	ditch	<b>tall buttercup</b>	Noxious	13	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			alfalfa	not listed	13	1	
			dandelion	not listed	13	1	
			flixweed	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			prickly annual sow-thistle	not listed	13	1	
			smooth brome	not listed	13	1	
	annual crop	cultivation	lamb's-quarters	not listed	8	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			stinkweed	not listed	2	1	
			<b>tall buttercup</b>	Noxious	2	1	
			barnyard grass	not listed	2	1	An approximately 60 m x 150 m weedy patch was observed within this parcel. A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			cleavers	not listed	2	1	
			dandelion	not listed	2	1	
			flixweed	not listed	5	1	
			lamb's-quarters	not listed	8	1	
			night-flowering catchfly	not listed	2	1	
			prickly annual sow-thistle	not listed	6	1	
			shepherd's-purse	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			wild buckwheat	not listed	2	1	
	native forest	undisturbed	no weed species observed	n/a	n/a	n/a	--
SW 10-057-08 W5M	native forest	undisturbed	no weed species observed	n/a	n/a	n/a	--
NE 03-057-08 W5M	annual crop	field line	lamb's-quarters	not listed	13	1	--
			night-flowering catchfly	not listed	13	1	
			stinkweed	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	Canada thistle	Noxious	2	1	--
			cleavers	not listed	4	1	
			prickly annual sow-thistle	not listed	2	1	
NE 02-057-08 W5M	tame grass	hay	Canada thistle	Noxious	3	3	--
			dandelion	not listed	5	1	
NW 01-057-08 W5M	road	ditch	biennial sagewort	not listed	2	1	--
	tame grass	pasture	Canada thistle	Noxious	2	1	--
			alfalfa	not listed	8	1	
			dandelion	not listed	2	1	
			smooth brome	not listed	8	1	
	road	field line	Canada thistle	Noxious	3	1	--
			smooth brome	not listed	5	1	
			stinkweed	not listed	2	1	
			wild buckwheat	not listed	2	1	
SW 05-057-07 W5M	road	ditch	Canada thistle	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			stinkweed	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	sweet-clover species	not listed	13	1	--
			<b>Canada thistle</b>	Noxious	4	1	
			alfalfa	not listed	5	1	
			smooth brome	not listed	5	1	
			wild buckwheat	not listed	2	1	
			wild oat	not listed	2	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			smooth brome	not listed	13	1	
NW 34-056-07 W5M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	A linear patch of oxeye daisy was observed in the road ditch at: 633511 E 5972700 N (Zone 11, NAD 83).A few tall buttercup plants were observed at low densities both on and of
			<b>oxeye daisy</b>	Noxious	13	1	
			<b>tall buttercup</b>	Noxious	13	1	
			common plantain	not listed	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			sweet-clover species	not listed	13	1	
			volunteer mustard	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	dandelion	not listed	2	1	--
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	2	1	
			dandelion	not listed	13	2	
			stinkweed	not listed	13	2	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
SW 34-056-07 W5M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			stinkweed	not listed	13	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			alfalfa	not listed	2	1	
			dandelion	not listed	11	1	
			prickly annual sow-thistle	not listed	2	1	
			stinkweed	not listed	4	1	
			wild buckwheat	not listed	4	1	
	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	--
	tame grass	field line	dandelion	not listed	2	1	--
NW 24-056-07 W5M	tame grass	hay	<b>Canada thistle</b>	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	1	
			dandelion	not listed	5	1	
NE 24-056-07 W5M	native forest	pasture	dandelion	not listed	5	1	--
	tame grass	hay	<b>Canada thistle</b>	Noxious	4	1	--
			dandelion	not listed	5	2	
SW 20-056-06 W5M	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	--
			dandelion	not listed	2	1	
SE 20-056-06 W5M	native forest	pasture	<b>Canada thistle</b>	Noxious	7	1	--
			dandelion	not listed	5	1	
NE 17-056-06 W5M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			knotweed species	not listed	13	1	
			night-flowering catchfly	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	wild buckwheat	not listed	13	1	--
			common pepper-grass	not listed	2	1	
			common plantain	not listed	2	1	
			stinkweed	not listed	5	1	
			volunteer flax	not listed	2	1	
			wild buckwheat	not listed	5	1	
	road	ditch	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			alfalfa	not listed	13	1	
			alsike clover	not listed	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	2	
			summer-cypress	not listed	2	1	
			sweet-clover species	not listed	13	1	
NW 16-056-06 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	9	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	1	
			common plantain	not listed	2	1	
			dandelion	not listed	9	2	
			field mouse-ear chickweed	not listed	2	1	
NE 16-056-06 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	8	1	
			dandelion	not listed	8	3	
NE 13-056-06 W5M	annual crop	field line	night-flowering catchfly	not listed	2	1	--
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	4	1	--
			dandelion	not listed	5	1	
			wild buckwheat	not listed	10	2	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			wild oat	not listed	8	2	
NW 18-056-05 W5M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			sweet-clover species	not listed	13	1	
	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	--
			dandelion	not listed	6	1	
NE 18-056-05 W5M	native forest	pasture	<b>Canada thistle</b>	Noxious	5	1	An approximately 5 m x 25 m weedy patch was observed within this parcel.
			<b>perennial sow thistle</b>	Noxious	2	1	
			common plantain	not listed	2	1	
			knotweed species	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			sweet-clover species	not listed	2	1	
	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	1	--
			dandelion	not listed	11	1	
			flixweed	not listed	2	1	
NW 17-056-05 W5M	tame grass	hay	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	5	1	
NE 17-056-05 W5M	annual crop	field line	barnyard grass	not listed	4	1	--
	annual crop	cultivation	dandelion	not listed	2	1	--
			stinkweed	not listed	2	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	4	1	--
NE 16-056-05 W5M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			<b>perennial sow thistle</b>	Noxious	13	1	
			alfalfa	not listed	13	1	
			dandelion	not listed	13	1	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	smooth brome	not listed	13	1	One white cockle plant was observed within this parcel.
			sweet-clover species	not listed	13	1	
			Canada thistle	Noxious	4	1	
			white cockle	Noxious	1	1	
			lady's-thumb	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			night-flowering catchfly	not listed	2	1	
			stinkweed	not listed	3	1	
			volunteer mustard	not listed	4	1	
	annual crop	field line	Canada thistle	Noxious	13	1	--
			alfalfa	not listed	13	1	
			smooth brome	not listed	13	1	
NW 15-056-05 W5M	annual crop	cultivation	Canada thistle	Noxious	4	1	--
			volunteer canola	not listed	2	1	
			volunteer mustard	not listed	2	1	
			wild oat	not listed	5	2	
NE 15-056-05 W5M	perennial crop	hay	Canada thistle	Noxious	2	1	--
			perennial sow thistle	Noxious	2	1	
			dandelion	not listed	10	4	
	fallow	cultivation	Canada thistle	Noxious	5	1	--
			dandelion	not listed	5	1	
NW 14-056-05 W5M	tame grass	hay	dandelion	not listed	5	1	--
	tame grass	pasture	dandelion	not listed	5	1	--
NE 14-056-05 W5M	tame grass	pasture	Canada thistle	Noxious	2	1	--
	native forest	pasture	no weed species observed	n/a	n/a	n/a	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
NW 13-056-05 W5M	road	ditch	sweet-clover species	not listed	13	1	--
	native forest	pasture	<b>Canada thistle</b>	Noxious	8	1	--
	tame grass	pasture	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	5	1	
NE 13-056-05 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	2	1	--
			knotweed species	not listed	3	1	
NE 18-056-04 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	5	1	--
			alfalfa	not listed	5	1	
			black medick	not listed	11	1	
			dandelion	not listed	12	2	
NW 17-056-04 W5M	tame grass	pasture	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			black medick	not listed	5	2	
			dandelion	not listed	11	2	
	native forest	pasture	<b>Canada thistle</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	4	1	
			knotweed species	not listed	2	1	
SW 20-056-04 W5M	tame grass	pasture	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			black medick	not listed	5	2	
			dandelion	not listed	11	2	
NE 17-056-04 W5M	tame grass	pasture	<b>tall buttercup</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			black medick	not listed	5	2	
			dandelion	not listed	11	2	
	native forest	pasture	<b>Canada thistle</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	4	1	
			knotweed species	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
SE 20-056-04 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	1	--
			black medick	not listed	5	2	
			dandelion	not listed	5	2	
SW 21-056-04 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	8	2	
			dandelion	not listed	10	3	
SE 22-056-04 W5M	native forest	undisturbed	<b>Canada thistle</b>	Noxious	8	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	5	1	
			dandelion	not listed	5	1	
SW 23-056-04 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	2	--
			black medick	not listed	11	2	
			dandelion	not listed	8	1	
			<b>Canada thistle</b>	Noxious	8	2	--
			dandelion	not listed	5	1	
			smooth brome	not listed	11	2	
			<b>Canada thistle</b>	Noxious	8	1	--
			black medick	not listed	5	2	
			dandelion	not listed	5	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
	native forest	pasture	<b>Canada thistle</b>	Noxious	3	1	
			<b>tall buttercup</b>	Noxious	2	1	
NW 23-056-04 W5M	native forest	pasture	<b>Canada thistle</b>	Noxious	4	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	2	1	
NE 23-056-04 W5M	native grass	pasture	<b>Canada thistle</b>	Noxious	2	1	--
			lamb's-quarters	not listed	2	1	
NW 24-056-04 W5M	tame grass	hay	no weed species observed	n/a	n/a	n/a	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	native forest	pasture	Canada thistle	Noxious	2	1	--
NE 24-056-04 W5M	tame grass	pasture	Canada thistle	Noxious	5	2	--
			dandelion	not listed	5	2	
	tame grass	hay	dandelion	not listed	11	4	--
			night-flowering catchfly	not listed	2	1	
SW 19-056-03 W5M	tame grass	pasture	dandelion	not listed	10	4	--
NW 19-056-03 W5M	tame grass	hay	dandelion	not listed	10	4	--
NE 19-056-03 W5M	tame grass	hay	Canada thistle	Noxious	8	2	--
	tame grass	pasture	Canada thistle	Noxious	2	1	--
			dandelion	not listed	11	2	
NE 21-056-03 W5M	tame grass	hay	dandelion	not listed	5	2	--
	native forest	pasture	Canada thistle	Noxious	3	1	--
			dandelion	not listed	5	1	
	tame grass	hay	dandelion	not listed	2	1	--
NW 22-056-03 W5M	tame grass	hay	dandelion	not listed	2	1	--
NE 22-056-03 W5M	tame grass	pasture	Canada thistle	Noxious	2	1	--
			dandelion	not listed	5	2	
NW 23-056-03 W5M	annual crop	cultivation	Canada thistle	Noxious	4	1	--
			common goat's-beard	not listed	1	1	
			dandelion	not listed	4	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	1	1	
			volunteer wheatgrass species	not listed	2	1	
			wild buckwheat	not listed	2	1	
	tame grass	hay	dandelion	not listed	11	4	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
NE 23-056-03 W5M	tame grass	hay	dandelion	not listed	11	4	--
	tame grass	pasture	<b>Canada thistle</b>	Noxious	5	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	2	1	
			dandelion	not listed	10	3	
	road	ditch	<b>perennial sow thistle</b>	Noxious	1	1	--
NW 24-056-03 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	5	2	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	4	1	
			dandelion	not listed	11	4	
			knotweed species	not listed	2	1	
SW 24-056-03 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	2	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			<b>tall buttercup</b>	Noxious	4	1	
			dandelion	not listed	11	4	
NE 24-056-03 W5M	tame grass	pasture	<b>Canada thistle</b>	Noxious	8	2	--
			dandelion	not listed	10	3	
			flixweed	not listed	1	1	
	tame grass	hay	<b>Canada thistle</b>	Noxious	4	1	--
			<b>perennial sow thistle</b>	Noxious	3	1	
			dandelion	not listed	5	2	
			stinkweed	not listed	2	1	
			wild buckwheat	not listed	2	1	
	tame grass	hay	<b>Canada thistle</b>	Noxious	6	2	--
			dandelion	not listed	1	1	
			flixweed	not listed	2	1	
			knotweed species	not listed	2	1	
			night-flowering catchfly	not listed	1	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments			
			stinkweed	not listed	2	1				
			wild buckwheat	not listed	3	1				
	shelterbelt	undisturbed	Canada thistle	Noxious	1	1	--			
NW 21-056-02 W5M	annual crop	cultivation	wild buckwheat	not listed	2	1	--			
			Canada thistle	Noxious	8	2	The Project RoW crosses a weedy linear swale for approximately 25 m within this parcel.			
			alsike clover	not listed	5	2				
			common plantain	not listed	8	2				
			pale persicaria	not listed	5	2				
			volunteer canola	not listed	1	1				
			wild buckwheat	not listed	8	2				
SW 20-056-01 W5M	road	ditch	absinthe wormwood	not listed	7	1	Absinthe wormwood was only observed in small patches along the Project RoW within NW 22-056-01 W5M and SW 20-056-01 W5M.			
			native grass	pasture	common tansy	Noxious		2	2	Five common tansy plants were observed within a 15 m x 3 m patch located at: 689781 E 5971095 N (Zone 11 N, NAD 83).Absinthe wormwood was only observed in small patches alo
					perennial sow thistle	Noxious		1	1	
					absinthe wormwood	not listed		7	1	
	dandelion	not listed			5	2				
			knotweed species	not listed	1	1				
	County of Barrhead No. 11									
	NW 22-056-01 W5M	native forest	pasture	Canada thistle	Noxious	6	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.		
native grass		pasture	tall buttercup	Noxious	2	1				
native forest		pasture	tall buttercup	Noxious	1	1				

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	road	ditch	absinthe wormwood	not listed	3	1	Absinthe wormwood was only observed in small patches along the Project RoW within NW 22-056-01 W5M and SW 20-056-01 W5M.
	native grass	pasture	common plantain	not listed	3	1	A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			dandelion	not listed	5	1	
	Lac Ste. Anne County						
SE 22-056-01 W5M	tame grass	pasture	Canada thistle	Noxious	2	1	--
			perennial sow thistle	Noxious	2	1	
			dandelion	not listed	5	1	
Sturgeon County							
SE 19-056-27 W4M	annual crop	field line	Canada thistle	Noxious	13	3	--
	annual crop	cultivation	perennial sow thistle	Noxious	1	1	--
	native forest	undisturbed	dandelion	not listed	1	1	--
NW 21-056-27 W4M	annual crop	field line	Canada thistle	Noxious	13	1	--
	annual crop	cultivation	lamb's-quarters	not listed	2	1	--
			wild buckwheat	not listed	2	1	
	annual crop	field line	Canada thistle	Noxious	13	1	--
			alsike clover	not listed	13	1	
			volunteer wheatgrass species	not listed	13	1	
	annual crop	cultivation	alsike clover	not listed	2	1	--
			green foxtail	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			volunteer wheatgrass species	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	field line	wild buckwheat	not listed	2	1	--
			<b>Canada thistle</b>	Noxious	2	1	
			smooth brome	not listed	2	1	
			sweet-clover species	not listed	2	1	
			volunteer wheatgrass species	not listed	5	2	
SW 22-056-27 W4M	annual crop	field line	smooth brome	not listed	13	1	--
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	8	1	--
			cleavers	not listed	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	2	1	
			lamb's-quarters	not listed	4	1	
			prickly annual sow-thistle	not listed	2	1	
			volunteer canola	not listed	7	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	smooth brome	not listed	13	1	--
	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	--
			dandelion	not listed	2	1	
SE 22-056-27 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	2	1	--
			dandelion	not listed	7	1	
			flixweed	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			prickly annual sow-thistle	not listed	2	1	
			smooth brome	not listed	13	1	
			stinkweed	not listed	2	1	
			wild oat	not listed	2	1	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	wild buckwheat	not listed	2	1	--
	annual crop	field line	dandelion	not listed	7	1	--
			smooth brome	not listed	13	1	
			wild buckwheat	not listed	2	1	
SW 23-056-27 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			volunteer wheatgrass species	not listed	13	1	
	annual crop	cultivation	spear-leaved goosefoot	not listed	3	1	--
			volunteer canola	not listed	4	1	
			wild buckwheat	not listed	3	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			volunteer wheatgrass species	not listed	13	1	
			wild buckwheat	not listed	13	1	
SE 23-056-27 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	<b>perennial sow thistle</b>	Noxious	2	1	--
			foxtail barley	not listed	2	1	
			lady's-thumb	not listed	2	1	
			wild buckwheat	not listed	2	1	
			wild mustard	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			Canada thistle	Noxious	4	1	An approximately 90 m x 75 m weedy patch within wetland.
			alsike clover	not listed	2	1	
			dandelion	not listed	6	1	
			foxtail barley	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	Canada thistle	Noxious	13	1	--
			wild buckwheat	not listed	13	1	
NE 18-056-26 W4M	tame grass	pasture	Canada thistle	Noxious	4	1	--
			perennial sow thistle	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
NW 17-056-26 W4M	road	ditch	smooth brome	not listed	13	3	--
	tame grass	hay	Canada thistle	Noxious	5	2	--
			perennial sow thistle	Noxious	2	1	
			dandelion	not listed	2	1	
			wild oat	not listed	5	2	
	tame grass	field line	smooth brome	not listed	13	3	--
	native forest	pasture	Canada thistle	Noxious	4	1	--
			perennial sow thistle	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
NE 17-056-26 W4M	native forest	pasture	Canada thistle	Noxious	4	1	--
			perennial sow thistle	Noxious	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
SW 17-056-26 W4M	native forest	pasture	<b>Canada thistle</b>	Noxious	4	1	--
			<b>perennial sow thistle</b>	Noxious	2	1	
			common plantain	not listed	2	1	
			dandelion	not listed	5	1	
SE 17-056-26 W4M	native forest	pasture	<b>Canada thistle</b>	Noxious	1	1	--
			<b>perennial sow thistle</b>	Noxious	1	1	
			dandelion	not listed	1	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			dandelion	not listed	13	1	
			lamb's-quarters	not listed	2	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	4	1	--
			<b>perennial sow thistle</b>	Noxious	1	1	
			annual hawk's-beard	not listed	2	1	
			dandelion	not listed	2	1	
			wild buckwheat	not listed	2	1	
			wild oat	not listed	2	1	
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			smooth brome	not listed	13	1	
SW 16-056-26 W4M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
	annual crop	cultivation	dandelion	not listed	2	1	--
			volunteer canola	not listed	2	1	
			wild buckwheat	not listed	2	1	
			wild oat	not listed	5	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	field line	Canada thistle	Noxious	13	1	--
			perennial sow thistle	Noxious	13	1	
			lamb's-quarters	not listed	13	1	
			wild oat	not listed	13	1	
SE 16-056-26 W4M	annual crop	field line	Canada thistle	Noxious	13	1	--
			perennial sow thistle	Noxious	13	1	
			cleavers	not listed	13	1	
			dandelion	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			stork's-bill	not listed	13	1	
			wild buckwheat	not listed	13	1	
			wild oat	not listed	13	1	
	annual crop	cultivation	biennial sagewort	not listed	2	1	--
			common plantain	not listed	3	1	
			dandelion	not listed	2	1	
			foxtail barley	not listed	3	1	
			wild mustard	not listed	4	1	
	road	ditch	Canada thistle	Noxious	13	1	--
			cleavers	not listed	13	1	
			wild mustard	not listed	13	1	
SE 15-056-26 W4M	annual crop	cultivation	Canada thistle	Noxious	6	1	--
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	2	1	
SW 14-056-26 W4M	road	ditch	Canada thistle	Noxious	2	1	--
			shepherd's-purse	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	Canada thistle	Noxious	2	1	--
	annual crop	field line	Canada thistle	Noxious	13	1	--
			dandelion	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	Canada thistle	Noxious	5	1	--
			alfalfa	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			stinkweed	not listed	2	1	
			volunteer canola	not listed	2	1	
			wild buckwheat	not listed	2	1	
	road	ditch	alfalfa	not listed	13	1	--
			alsike clover	not listed	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			stinkweed	not listed	13	1	
			sweet-clover species	not listed	13	1	
	annual crop	cultivation	alfalfa	not listed	2	1	--
			lamb's-quarters	not listed	2	1	
SE 14-056-26 W4M	annual crop	field line	Canada thistle	Noxious	13	1	--
			dandelion	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	dandelion	not listed	2	1	--
	road	ditch	Canada thistle	Noxious	13	1	--
			perennial sow thistle	Noxious	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			dandelion	not listed	13	1	
			stinkweed	not listed	13	1	
SW 18-056-25 W4M	tame grass	hay	<b>Canada thistle</b>	Noxious	4	1	--
			prickly annual sow-thistle	not listed	1	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	10	3	
SE 18-056-25 W4M	annual crop	field line	cleavers	not listed	4	1	--
	annual crop	cultivation	lamb's-quarters	not listed	2	1	--
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	2	
	road	ditch	cleavers	not listed	4	1	--
SW 17-056-25 W4M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			cleavers	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			stinkweed	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	cultivation	lamb's-quarters	not listed	2	1	--
			wild buckwheat	not listed	2	1	
			wild oat	not listed	5	1	
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			cleavers	not listed	13	1	
			lamb's-quarters	not listed	13	1	
			stinkweed	not listed	13	1	
			wild buckwheat	not listed	13	1	
NW 08-056-25 W4M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			perennial sow thistle	Noxious	13	1	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
			common plantain	not listed	2	1	
			dandelion	not listed	13	1	
			night-flowering catchfly	not listed	2	1	
			ox tongue	not listed	3	1	
			shepherd's-purse	not listed	13	1	
			sweet-clover species	not listed	13	1	
			wild oat	not listed	13	1	
	annual crop	cultivation	Canada thistle	Noxious	2	1	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
			common plantain	not listed	2	1	
			lamb's-quarters	not listed	2	1	
			night-flowering catchfly	not listed	2	1	
			ox tongue	not listed	4	1	
			wild buckwheat	not listed	2	1	
			wild mustard	not listed	2	1	
			wild oat	not listed	5	1	
NE 08-056-25 W4M	annual crop	field line	Canada thistle	Noxious	13	1	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
			ox tongue	not listed	13	1	
			wild oat	not listed	13	1	
	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
	annual crop	field line	Canada thistle	Noxious	13	1	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
			chickweed species	not listed	13	1	
			cleavers	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			shepherd's-purse	not listed	13	1	
SE 08-056-25 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	Oxtongue was only observed along the Project RoW within the NW and NE of 08-056-25 W4M.
			cleavers	not listed	13	1	
			lamb's-quarters	not listed	13	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			cleavers	not listed	2	1	
			wild buckwheat	not listed	2	1	
			wild oat	not listed	5	1	
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			knotweed species	not listed	13	1	
			prickly annual sow-thistle	not listed	13	1	
			shepherd's-purse	not listed	13	1	
			smooth brome	not listed	13	1	
			wild buckwheat	not listed	13	1	
SW 09-056-25 W4M	annual crop	cultivation	prickly annual sow-thistle	not listed	1	1	--
NW 09-056-25 W4M	annual crop	cultivation	prickly annual sow-thistle	not listed	1	1	--
NE 09-056-25 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	2	1	--
	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	--
	tame grass	hay	<b>Canada thistle</b>	Noxious	5	1	--
			common plantain	not listed	5	2	
			dandelion	not listed	10	2	
			stinkweed	not listed	1	1	
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			<b>perennial sow thistle</b>	Noxious	13	1	
			smooth brome	not listed	13	1	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	field line	spear-leaved goosefoot	not listed	2	1	--
			Canada thistle	Noxious	13	1	
			night-flowering catchfly	not listed	13	1	
	annual crop	cultivation	smooth brome	not listed	13	1	--
			Canada thistle	Noxious	2	1	
			dandelion	not listed	2	1	
	annual crop	cultivation	wild oat	not listed	2	1	--
			Canada thistle	Noxious	2	1	
			dandelion	not listed	2	1	
SE 09-056-25 W4M	annual crop	cultivation	Canada thistle	Noxious	2	1	--
			dandelion	not listed	2	1	
			wild oat	not listed	2	1	
	road	ditch	smooth brome	not listed	13	1	--
SW 10-056-25 W4M	road	ditch	alsike clover	not listed	13	1	--
			smooth brome	not listed	13	1	
	tame grass	hay	dandelion	not listed	4	1	--
NW 10-056-25 W4M	annual crop	cultivation	Canada thistle	Noxious	2	1	--
			dandelion	not listed	5	1	
			wild buckwheat	not listed	2	1	
	annual crop	canal	Canada thistle	Noxious	13	1	--
			alfalfa	not listed	13	1	
			annual hawk's-beard	not listed	13	1	
			dandelion	not listed	13	1	
			prickly annual sow-thistle	not listed	13	1	
			smooth brome	not listed	13	1	
			stinkweed	not listed	13	1	
			sunflower species	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	lamb's-quarters	not listed	3	1	--
			wild buckwheat	not listed	2	1	
			wild oat	not listed	2	1	
NE 10-056-25 W4M	annual crop	cultivation	lamb's-quarters	not listed	3	1	--
			wild buckwheat	not listed	2	1	
			wild oat	not listed	2	1	
	road	ditch	<b>Canada thistle</b>	Noxious	3	1	--
			smooth brome	not listed	13	1	
			stinkweed	not listed	3	1	
			wild oat	not listed	2	1	
NW 11-056-25 W4M	road	ditch	smooth brome	not listed	13	1	--
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			ball mustard	not listed	1	1	
			cleavers	not listed	2	1	
			common plantain	not listed	1	1	
			lamb's-quarters	not listed	2	1	
			Russian pigweed	not listed	1	1	
			shepherd's-purse	not listed	2	1	
			stinkweed	not listed	2	1	
			<b>perennial sow thistle</b>	Noxious	4	1	
			annual hawk's-beard	not listed	4	1	
			common plantain	not listed	3	1	
			dandelion	not listed	2	1	
			pineappleweed	not listed	3	1	
			prickly annual sow-thistle	not listed	4	1	

The Project RoW crosses a weedy linear swale for approximately 35 m within this parcel.

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	tame grass	hay	shepherd's-purse	not listed	4	1	--
			summer-cypress	not listed	4	1	
			<b>Canada thistle</b>	Noxious	2	1	
			ball mustard	not listed	1	1	
			lady's-thumb	not listed	1	1	
			lamb's-quarters	not listed	2	1	
			summer-cypress	not listed	1	1	
			volunteer canola	not listed	5	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	1	
NE 11-056-25 W4M	tame grass	hay	<b>Canada thistle</b>	Noxious	2	1	--
			ball mustard	not listed	1	1	
			lady's-thumb	not listed	1	1	
			lamb's-quarters	not listed	2	1	
			summer-cypress	not listed	1	1	
			volunteer canola	not listed	5	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	1	
SE 11-056-25 W4M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			volunteer wheatgrass species	not listed	2	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	1	
NE 02-056-25 W4M	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			<b>perennial sow thistle</b>	Noxious	13	1	
			dandelion	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	smooth brome	not listed	13	1	--
			<b>Canada thistle</b>	Noxious	2	1	
			dandelion	not listed	4	1	
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	4	1	
SE 02-056-25 W4M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
			dandelion	not listed	4	1	
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	4	1	
	road	canal	<b>Canada thistle</b>	Noxious	13	1	--
			<b>perennial sow thistle</b>	Noxious	13	1	
			alfalfa	not listed	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	1	
			sweet-clover species	not listed	13	1	
			wild buckwheat	not listed	13	1	
	annual crop	canal	<b>Canada thistle</b>	Noxious	13	2	--
			annual hawk's-beard	not listed	13	1	
			common goat's-beard	not listed	13	1	
			dandelion	not listed	13	1	
			wild mustard	not listed	13	2	
	annual crop	cultivation	dandelion	not listed	2	1	--
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	2	1	
	road	ditch	<b>Canada thistle</b>	Noxious	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			perennial sow thistle	Noxious	13	1	One common tansy plant was observed immediately off RoW at: 328963 E 5964808 N (Zone 12 N, NAD 83). A linear patch of scentless chamomile was observed in the road ditch at: 32
			scentless chamomile	Noxious	13	1	
			dandelion	not listed	13	1	
NE 35-055-25 W4M	annual crop	cultivation	Canada thistle	Noxious	8	1	--
			cleavers	not listed	2	1	
			volunteer canola	not listed	8	1	
			volunteer wheatgrass species	not listed	5	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	dandelion	not listed	4	1	--
			green foxtail	not listed	3	1	
			lamb's-quarters	not listed	2	1	
			spear-leaved goosefoot	not listed	3	1	
			stinkweed	not listed	2	1	
			stork's-bill	not listed	3	1	
			summer-cypress	not listed	3	1	
			wild oat	not listed	3	1	
SE 35-055-25 W4M	annual crop	field line	dandelion	not listed	4	1	--
			green foxtail	not listed	3	1	
			lamb's-quarters	not listed	2	1	
			spear-leaved goosefoot	not listed	3	1	
			stinkweed	not listed	2	1	
			stork's-bill	not listed	3	1	
			summer-cypress	not listed	3	1	
			wild oat	not listed	3	1	
	annual crop	cultivation	Canada thistle	Noxious	8	1	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			cleavers	not listed	5	2	
			dandelion	not listed	4	1	
			foxtail barley	not listed	7	1	
			volunteer wheatgrass species	not listed	5	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	2	
	annual crop	field line	lamb's-quarters	not listed	3	1	--
			prickly annual sow-thistle	not listed	3	1	
NE 26-055-25 W4M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
	annual crop	field line	lamb's-quarters	not listed	3	1	
			prickly annual sow-thistle	not listed	3	1	
	annual crop	cultivation	wild buckwheat	not listed	2	1	
NW 25-055-25 W4M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			cleavers	not listed	13	1	
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	5	1	--
			cleavers	not listed	5	1	
			lamb's-quarters	not listed	5	1	
			stinkweed	not listed	2	1	
			stork's-bill	not listed	4	1	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	1	
	road	ditch	dandelion	not listed	2	1	--
			lamb's-quarters	not listed	13	2	
			stork's-bill	not listed	13	2	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			cleavers	not listed	2	1	
			dandelion	not listed	2	1	
			smooth brome	not listed	5	1	
			stork's-bill	not listed	13	1	
NW 19-055-24 W4M	tame grass	hay	<b>Canada thistle</b>	Noxious	5	1	A few scentless chamomile plants were observed at low densities both on and off the Project RoW.
			<b>scentless chamomile</b>	Noxious	2	1	
			cleavers	not listed	2	1	
			dandelion	not listed	5	1	
			knotweed species	not listed	3	1	
			lamb's-quarters	not listed	5	1	
			prickly annual sow-thistle	not listed	2	1	
			prickly lettuce	not listed	2	1	
			shepherd's-purse	not listed	1	1	
			stinkweed	not listed	1	1	
			volunteer canola	not listed	5	2	
			wild buckwheat	not listed	5	1	
			wild oat	not listed	5	1	
NE 17-055-24 W4M	annual crop	cultivation	<b>Canada thistle</b>	Noxious	2	1	--
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			cleavers	not listed	13	1	
			dandelion	not listed	13	1	
SE 09-055-24 W4M	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	--
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			<b>perennial sow thistle</b>	Noxious	13	1	
			smooth brome	not listed	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
SW 10-055-24 W4M	road	ditch	Canada thistle	Noxious	5	1	One common tansy plant was observed immediately off RoW at: 328963 E 5964808 N (Zone 12 N, NAD 83).A linear patch of scentless chamomile was observed in the road ditch at: 32
			common tansy	Noxious	0	0	
			perennial sow thistle	Noxious	2	1	
			yellow toadflax	Noxious	4	2	
			prickly lettuce	not listed	3	2	
			smooth brome	not listed	13	4	
	annual crop	cultivation	Canada thistle	Noxious	4	1	--
			cleavers	not listed	2	1	
			common plantain	not listed	1	1	
			dandelion	not listed	1	1	
			lamb's-quarters	not listed	1	1	
			volunteer canola	not listed	2	1	
			scentless chamomile	Noxious	2	1	The Project RoW crosses a weedy linear wetland patch for approximately 35 m within this parcel.A few scentless chamomile plants were observed at low densities both on and off
			cleavers	not listed	7	2	
			prickly annual sow-thistle	not listed	4	1	
			wild oat	not listed	2	1	
			Canada thistle	Noxious	3	2	The Project RoW crosses a weedy linear wetland patch for approximately 30 m within this parcel.A large patch of common tansy was observed a short distance off RoW to the south
			common tansy	Noxious	0	2	
			perennial sow thistle	Noxious	1	1	
			cleavers	not listed	3	2	
	native forest	undisturbed	Canada thistle	Noxious	7	2	A few common tansy plants were observed at: 335728 E 5956621 N (Zone 12 N, NAD 83).A few white cockle plants were observed at low densities both on and off the Project RoW.
			common tansy	Noxious	4	1	
			perennial sow thistle	Noxious	5	1	
			white cockle	Noxious	2	1	
			chickweed species	not listed	2	1	



Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	tame grass	pasture	Canada thistle	Noxious	4	1	One common tansy plant was observed at: 335754 E 5956531 N (Zone 12 N, NAD 83). A few tall buttercup plants were observed at low densities both on and off the Project RoW.
			common tansy	Noxious	1	1	
			tall buttercup	Noxious	2	1	
			dandelion	not listed	2	1	
			night-flowering catchfly	not listed	2	1	
NW 03-055-24 W4M	road	ditch	Canada thistle	Noxious	13	1	A dense linear patch of white cockle was observed in the road ditch at: 335836 E 5956444 N (Zone 12 N, NAD 83).
			white cockle	Noxious	13	2	
			smooth brome	not listed	13	2	
	annual crop	cultivation	Canada thistle	Noxious	2	1	--
			lamb's-quarters	not listed	2	1	
			wild buckwheat	not listed	2	1	
	annual crop	field line	Canada thistle	Noxious	13	2	A linear patch of yellow toadflax and white cockle was observed at the field line at: 336156 E 5956110 N (Zone 12 N, NAD 83).
			white cockle	Noxious	13	1	
			yellow toadflax	Noxious	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	2	
NE 03-055-24 W4M	annual crop	field line	Canada thistle	Noxious	13	2	A linear patch of yellow toadflax was observed at the field line at: 336156 E 5956110 N (Zone 12 N, NAD 83).
			yellow toadflax	Noxious	13	1	
			dandelion	not listed	13	1	
			smooth brome	not listed	13	2	
	annual crop	cultivation	Canada thistle	Noxious	2	1	A few white cockle plants were observed at low densities both on and off the Project RoW.
			white cockle	Noxious	2	1	
			cleavers	not listed	2	1	
			lamb's-quarters	not listed	2	1	
	annual crop	field line	Canada thistle	Noxious	13	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			white cockle	Noxious	13	1	A linear patch of yellow toadflax and white cockle was observed at the field line at: 336156 E 5956110 N (Zone 12 N, NAD 83).
			yellow toadflax	Noxious	13	1	
			alfalfa	not listed	13	1	
			annual hawk's-beard	not listed	13	1	
			dandelion	not listed	13	1	
			marsh hedge-nettle	not listed	13	1	
			smooth brome	not listed	13	2	
	annual crop	cultivation	no weed species observed	n/a	n/a	n/a	--
SE 03-055-24 W4M	annual crop	cultivation	Canada thistle	Noxious	2	1	The Project RoW crosses an approximately 80 m x 50 m weedy cultivated low wet patch within this parcel. One scentless chamomile plant was observed at: 336852 E 5955147 N (Zo
			wild buckwheat	not listed	2	1	
			Canada thistle	Noxious	3	2	
			scentless chamomile	Noxious	1	1	
			annual hawk's-beard	not listed	3	1	
			common plantain	not listed	3	1	
			dandelion	not listed	3	1	
			lamb's-quarters	not listed	3	1	
			prostrate amaranth	not listed	3	1	
			round-leaved mallow	not listed	3	1	
	road	ditch	Canada thistle	Noxious	13	2	A linear patch of scentless chamomile was observed in the road ditch at: 336836 E 5954788 N (Zone 12, NAD 83).
			scentless chamomile	Noxious	0	1	
			cleavers	not listed	13	1	
			dandelion	not listed	13	1	
			prickly lettuce	not listed	13	1	
NW 34-054-24 W4M	road	ditch	smooth brome	not listed	13	1	--
			Canada thistle	Noxious	13	1	--

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
	annual crop	cultivation	barnyard grass	not listed	2	1	--
			barnyard grass	not listed	4	1	An approximately 75 m x 55 m weedy patch within wetland.
			prickly annual sow-thistle	not listed	3	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			smooth brome	not listed	13	1	
SW 34-054-24 W4M	road	ditch	<b>Canada thistle</b>	Noxious	13	1	--
			smooth brome	not listed	13	1	
	annual crop	cultivation	barnyard grass	not listed	2	1	--
			barnyard grass	not listed	4	1	An approximately 75 m x 55 m weedy patch within wetland.
			prickly annual sow-thistle	not listed	3	1	
	annual crop	field line	<b>Canada thistle</b>	Noxious	13	1	--
			smooth brome	not listed	13	1	
NE 34-054-24 W4M	annual crop	field line	smooth brome	not listed	13	1	--
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	8	2	--
			chickweed species	not listed	2	1	
			cleavers	not listed	5	2	
			lamb's-quarters	not listed	2	1	
			volunteer canola	not listed	2	1	
			wild oat	not listed	5	2	
	annual crop	field line	smooth brome	not listed	13	1	--
SE 34-054-24 W4M	annual crop	field line	smooth brome	not listed	13	1	--
	annual crop	cultivation	<b>Canada thistle</b>	Noxious	8	2	--
			chickweed species	not listed	2	1	
			cleavers	not listed	5	2	
			lamb's-quarters	not listed	2	1	

Location	Land Cover	Land Use	Weed Species <sup>1,2</sup>	Weed Status	Distribution <sup>3</sup>	Density <sup>4</sup>	Comments
			volunteer canola	not listed	2	1	
			wild oat	not listed	5	2	
	road	ditch	smooth brome	not listed	13	1	--

**Notes:** 1 Nomenclature follows the Alberta *Weed Control Act* if listed and ACIMS 2015a if not listed.

2 Species listed in bold font are designated as Noxious under the Alberta Weed Control Act.

3 Distribution codes from 1-13 (Appendix A, Table A-1) (Adams et al. 2009).

4 Density codes from 1-4 (Appendix A, Table A-2) (BC MOFLNRO *date unknown*).