TREE & SHRUB RESTORATION PLAN

BakkenLink Pipeline Project
Billings, Dunn, and McKenzie Counties, North Dakota
Project #3337

Prepared for:

North Dakota Public Service Commission
Case No. PU-10-218

November 4, 2013

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Tree & Shrub Restoration Plan
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TABLE OF CONTENTS

TABLES

APPENDICES

1.0 INTRODUCTION

On October 13, 2010, BakkenLink Pipeline LLC (BakkenLink) filed a Letter of Intent and Request for Waiver of One-Year Notice Period for 10-,12-, and16-Inch Steele Crude Oil Pipeline System to Be Located in Mountrail, McKenzie, Williams, Billings, Stark, and Golden Valley Counties, North Dakota to the North Dakota Public Service Commission (NDPSC). On February 29, 2012, the NDPSC issued its Finding of Fact, Conclusions of Law and Order regarding the case (Case No. PU-10-218). On July 24, 2012, BakkenLink filed an application seeking approval of modifications to the project route and corridor. The NDPSC approved the modifications and issued a revised Finding of Fact, Conclusions of Law and Order on September 5, 2012.

BakkenLink completed construction of the 97mile, 8-inch and 12-inch pipeline between the Arrow Midstream Station and Fryburg in the fall of 2013. As part of its restoration requirements, BakkenLink is required to replace trees and shrubs that were removed as part of the project. BakkenLink agreed to comply with the Tree and Shrub Mitigation Specifications set forth by the NDPSC, as stated within Condition 20 of the Order Provisions (Appendix A). The approved Tree and Shrub Mitigation Specifications outlines BakkenLink's proposed methods for tree and shrub inventory, clearing for construction, and replacement.

In compliance with Condition 20 and the Tree and Shrub Mitigation Plan, BakkenLink is submitting the results of its tree and shrub inventory, information regarding landowner discussions and a summary of replacement planting (to date).

2.0 TREE AND SHRUB INVENTORY

A pre-construction inventory of the construction right-of-way was conducted by Carlson McCain, Inc. (Carlson McCain) in September, 2012. As required within the mitigation specifications, the construction width was reduced to 50 feet or less through windbreaks, shelterbelts, and all other wooded areas. Trees and shrubs were inventoried using the methodology outlined in the Tree and Shrub Inventory Sampling Plan submitted September 22, 2011 (Appendix B).

The width of the construction right-of-way was reduced to 50 feet or less to avoid impacts to tree and shrub populations at 153 locations: 25 shelterbelts; 58 tree stands; 49 shrub stands; and 21 wooded wetlands. Directional drilling was used to avoid impacting 43 tree and shrub communities. The construction right-of-way was not reduced at 50 locations. The majority of these locations were native shrub communities dominated by western snowberry. In the instances where the right-of-way was not reduced when crossing a shelterbelt no trees or shrubs were located within the 100 foot construction right-of-way.

A summary of the species and quantity of trees and shrubs removed during construction is provided in Table 1.

Table 1. Summary of Tree and Shrub Inventory

Growth Form	Common Name	Species	Reproduction	Invasive	Total
Tree	Boxelder	*Acer negundo*	seed		3
	Russian Olive	*Elaeagnus angustifolia*	seed	X	17
	Green ash	*Fraxinus pennsylvanica*	seed		1,341
	Rocky Mountain juniper	*Juniperus scopulorum*	seed	X	19
	Colorado spruce	*Picea pungens*	seed		5
	Ponderosa pine	*Pinus ponderosa*	seed		5
	Cottonwood	*Populus deltoides*	seed, suckering		7
	Quaking aspen	*Populus tremuloides*	seed, suckering		425
	Peachleaf willow	*Salix amygdaloides*	seed		69
	American Elm	*Ulmus americana*	seed		175
	Siberian elm	*Ulmus pumila*	seed	X	111
TREE TOTAL					**2,177**
Shrub	Juneberry	*Amelanchier alnifolia*	suckering, colony forming		**9,360**
	Silver sagebrush	*Artemisia cana*	rhizotamous, colony forming		**1,404**
	Siberian peashrub	*Caragana arborescens*	seed	X	**35**
	Red osier dogwood	*Cornus stolonifera*	suckering, colony forming		**178**
	Northern hawthorn	*Crataegus rotundifolia*	suckering, colony forming		**2,455**
	Common juniper	*Juniperus communis*	rhizotamous, colony forming		**10**
	Creeping juniper	*Juniperus horizontalis*	rhizotamous, colony forming		**12**
	American plum	*Prunus americana*	suckering, colony forming		**476**
	Pin-cherry	*Prunus pensylvanica*	seed		**8**
	Chokecherry	*Prunus virginiana*	suckering, colony forming		**7,706**
	Skunkbrush sumac	*Rhus aromatic* v. *trilobata*	seed, colony forming		**365**
	Buffalo Current	*Ribes odoratum*	seed, colony forming		**89**
	Buffaloberry	*Shepherdia argentea*	suckering, colony forming		**3,564**
SHRUB TOTAL					**25,694**

Growth Form	Common Name	Species	Reproduction	Invasive	Total
COMBINED TOTAL					**27,871**

3.0 SUMMARY OF REPLACEMENT

A total of 2,177 trees and 25,694 shrubs were removed during construction. BakkenLink is responsible for planting 4,354 trees and 51,388 shrubs. BakkenLink has consulted with affected landowners to determine where trees and shrubs should be replaced. In the initial phase of the consultation, landowners were given an option to have all, a portion of, or no trees and shrubs replaced on their property. Eighteen landowners elected to have all or portions of replacement trees planted on their property, one landowner was compensated to replace trees/shrubs, and the others have decided not to have replacement done on their property.

A spreadsheet summary of affected landowners, species, and quantities of trees and shrubs planted on landowner's properties (to date) is located in Appendix C. Note that the number of trees planted is greater than the 2:1 replacement specifications and the number of shrubs planted is less than the 2:1 replacement specifications. During discussions with affected landowners, many did not want shrubs replaced at a 2:1 ratio and wanted trees substituted for shrubs. BakkenLink is requesting approval of a 4:1 replacement value for trees that are planted as replacements for shrubs.

BakkenLink has contracted with the local Soil Conservation Districts (SCD) within each county where trees/shrubs are planted. For landowners that elected to have plantings on their property, the SCDs agreed to determine with the landowner how much land is available for planting, the quantity of the plantings that can be completed within the specified land area, and which species should be planted based on the inventory of species removed from their property and existing habitat characteristics. Following the determination of planting locations and replacement species, the local SCDs provided planting plans to the North Dakota State Forester (NDSF) for review. If the NDSF found deficiencies in the plan, the SCDs and NDSF collaborated to develop an acceptable plan.

Some plantings have not yet been completed due to available resources at the SCD. Additional plantings are scheduled for 2016. After the 2016 planting season, BakkenLink will coordinate with the NDSF to plant any remaining trees and shrubs at alternative locations through cooperative projects with tree planting entities and private landowners.

4.0 REPLACEMENT MONITORING

In accordance with Condition 20, BakkenLink will inspect tree and shrub replacements once a year for three years, on the anniversary of the plantings, and submit a report to the NDPSC documenting the condition of the replacement planting and any woodland work completed prior to October 1 of each year. BakkenLink is aware that if after three years the survival rate of the plantings is less than 75% the NDPSC may order additional plantings.

Appendix A

Tree and Shrub Mitigation Specifications

Case No. PU-10-218

Tree and Shrub Mitigation Specifications

Inventory

1. Trees and shrubs anticipated to be cleared, including those that are considered invasive species or noxious weeds (*e.g., Caragana arborescens, Elaeagnus angustifolia, Rhamnus cathartica, Tamarix chinensis, T. parviflora, T. ramosissima, Ulmus pumila*), shall be inventoried before cutting. The inventory shall record the location, number, and species of trees and shrubs.

2. In windbreaks, shelterbelts and other planted areas, trees or shrubs anticipated to be cleared, regardless of size, shall be inventoried for replacement.

3. In native growth areas, trees anticipated to be cleared that are 1 inch diameter at breast height ("dbh") or greater shall be inventoried for replacement.

4. In native growth areas, shrubs anticipated to be cleared in the permanent right-of-way shall be inventoried for replacement.

5. In native growth areas outside the permanent right-of-way, shrubs shall be cut flush with the surface of the ground, taking care to leave the naturally occurring seed bank and root stock intact. If soil disturbance is necessary, the native topsoil shall be preserved and replaced after construction. Shrubs shall be allowed to regenerate naturally where native topsoil is preserved and replaced. Where native topsoil is not preserved and replaced, shrubs anticipated to be cleared shall be inventoried for replacement.

6. In native growth areas, trees and shrubs may be inventoried by actual count or by sampling method that will properly represent the woody

vegetation population. A sampling plan developed by the company, filed with the North Dakota Public Service Commission (NDPSC) and approved prior to the start of construction shall define the sampling method to be used for trees, for tall shrubs and for low shrubs. The data from the sample plots shall be extrapolated to the total acreage of the wooded area to be cleared to determine the species and quantity of trees and shrubs to be replaced.

Clearing for Construction

7. Trees and shrubs shall be selectively cleared, leaving mature trees and shrubs intact where practical.

8. The width of clear cuts through windbreaks, shelterbelts and all other wooded areas shall be limited to 50 feet or less unless otherwise approved by the NDPSC.

9. If the area of trees or shrubs actually cleared differs from the area inventoried, the difference in number of trees and shrubs to be replaced shall be noted on the inventory.

Replacement

10. Prior to tree/shrub replacement, documentation identifying the number and variety of trees removed as well as the mitigation plan for the proposed number, variety, type, location and date of replacement plantings shall be filed with the NSPSC for approval.

11. Tree replacement shall be on a 2 to 1 basis with 2-year-old saplings. Shrub replacement shall be on a 2 to 1 basis with stem cuttings.

12. Trees and shrubs shall be replaced by the same species or similar species suitable for North Dakota growing conditions as recommended by the North Dakota Forest Service.

13. Tree and shrub replacement shall not be conducted within a 20 to 30 foot wide path over the pipeline to facilitate visual inspections of the right-of-way in accordance with U.S. Department of Transportation safety regulations.

14. Landowners shall be given the option of having replacement trees/shrubs planted off the right-of-way on the landowner's property or waiving that requirement in writing and allowing those replacement trees/shrubs to be planted at alternative locations.

15. At the conclusion of the project, documentation identifying the actual number, variety, type, location and date of the replacement plantings shall be filed with the NDPSC.

16. Tree/shrub replacements shall be inspected once a year for three years, on about the anniversary of the plantings, and, on or shortly before October 1 of each year, a report shall be submitted to the NDPSC documenting the condition of replacement planting and any woodlands work completed. If after three years from the anniversary of the plantings the survival rate is less than 75%, the NDPSC may order additional planting(s).

Appendix B

Tree and Shrub Inventory and Sampling Plan

Tree and Shrub Inventory and Sampling Plan

Prepared for:

BakkenLink Pipeline
PU-10-218

September 15,2011

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Introduction

BakkenLink Pipeline LLC (BakkenLink) proposes to construct, own, and operate approximately 144 miles of 8-inch and 12-inch steel crude oil pipeline extending from Beaver Lodge, North Dakota to a proposed crude oil rail loading facility located near Fryburg, North Dakota (Case #PU-10-218). BakkenLink will comply with the tree and shrub mitigation specifications as outlined in Appendix A. Specifically, this Plan outlines the process for completing the tree and shrub inventory.

Inventory Methods

BakkenLink will inventory trees and shrubs, including those considered invasive species, to be cleared within the ROW easement. Inventories will be documented on standard forms and will include the inventory location, species present, and number of trees and shrubs in the location. An example form is found in Appendix B.

Windbreaks, Shelterbelts, and Other Planted Areas

In windbreaks, shelterbelts, and other planted areas, trees and shrubs anticipated to be cleared regardless of size will be counted by direct stem count. All trees, regardless of size, will be inventoried for replacement.

In windbreaks, shelterbelts, and other planted areas, shrubs that form colonies (such as buffalo currant, chokecherry, dogwood, plum, pussy willow, sandbar willow, western snowberry, and Woods rose) and that are cut flush with the ground surface and not cleared, so as to leave the naturally occurring seed bank and root stock intact will not be direct stem counted. Instead, the area will be delineated on an aerial photo and indicated on construction drawings to not be cleared or have the ground disturbed. If ground disturbance occurs, BakkenLink will conduct a direct stem count of the disturbance area or estimate the number of stems cleared using a Commission approved sampling estimate method (see Shrub Sampling Method, Appendix C).

Native Growth Areas

In native growth areas, trees that are one-inch or greater diameter at breast height (DBH) will be inventoried for replacement. Inventories will be conducted using direct counts when feasible. Counts will include native and invasive species.

In high-density woodland areas, a Commission approved sampling method may be used in place of individual counting (see Tree Sampling Method, Appendix D).

In native growth areas, shrubs that form colonies (such as buffalo currant, chokecherry, dogwood, plum, pussy willow, sandbar willow, western snowberry, and Woods rose) and that are cut flush with the ground surface and not cleared, so as to leave the naturally occurring seed bank and root stock intact will not be direct stem counted. Instead, the area will be delineated on an aerial photo and indicated on construction drawings to not be cleared or have the ground disturbed. If ground disturbance occurs, BakkenLink will conduct a direct stem count of the disturbance area or

estimate the number of stems cleared using a Commission approved sampling estimate method (see Shrub Sampling Method, Appendix C).

Tree Sampling Method

Per the Commission's Tree and Shrub Inventory Specifications (Inventory Specification No. 6 in Appendix A), in high-density woodland areas, BakkenLink proposes the following sampling method for the tree inventory. The dimensions of the entire woodland stand within the ROW will be delineated to determine the area of the woodland. Tree and shrub counts will be made in representative sample site areas within the woodland. Transects will be developed and the circular sample sites placed along the transect. The number of sample sites within a woodland stand will be dependent on woodland size and uniformity. A smaller, more uniform woodland stand would require fewer sample sites than a larger, less uniform woodland stand.

The sample sites will be 0.10 acres (37.24-foot radius circles). A rope 37.24 feet in length will be attached to a central stake and rotated in a circle (Appendix D). Trees and shrubs within the circle will be counted. Tree and shrub density for the entire woodland area within the ROW will be calculated based on the average density from all of the sample locations within the woodland, weighted against the woodland size.

Shrub Sampling Method

Per the Commission's Tree and Shrub Inventory Specifications (Inventory Specification No. 6 in Appendix A), in high-density woodland areas, BakkenLink proposes the following sampling method for the shrub inventory. The dimensions of the entire woodland stand within the ROW will be delineated to determine the area of the woodland. Shrub counts will be made in representative sample site areas within the woodland. Transects will be developed and the circular sample sites placed along the transect. The number of sample sites within a woodland stand will be dependent on woodland size and uniformity. A smaller, more uniform woodland stand would require fewer sample sites than a larger, less uniform woodland stand.

The sample sites will be 0.001 acres (3.72-foot radius circles). A rope 3.72 feet in length will be attached to a central stake and rotated in a circle (Appendix C). Shrubs within the circle will be counted. Tree and shrub density for the entire woodland area within the ROW will be calculated based on the average density from all of the sample locations within the woodland, weighted against the woodland size.

Appendix A

Tree and Shrub Mitigation Specifications

Inventory

1. Trees and shrubs anticipated to be cleared, including those that are considered invasive species or noxious weeds (*e.g., Caragana arborescens, Elaeagnus angustifolia, Rhamnus cathartica, Tamarix chinensis, T. parviflora, T. ramosissima, Ulmus pumila*), shall be inventoried before cutting. The inventory shall record the location, number, and species of trees and shrubs.
2. In windbreaks, shelterbelts and other planted areas, trees or shrubs anticipated to be cleared, regardless of size, shall be inventoried for replacement.
3. In native growth areas, trees anticipated to be cleared that are 1 inch diameter at breast height ("dbh") or greater shall be inventoried for replacement.
4. In native growth areas, shrubs anticipated to be cleared in the permanent right-of-way shall be inventoried for replacement.
5. In native growth areas outside the permanent right-of-way, shrubs shall be cut flush with the surface of the ground, taking care to leave the naturally occurring seed bank and root stock intact. If soil disturbance is necessary, the native topsoil shall be preserved and replaced after construction. Shrubs shall be allowed to regenerate naturally where native topsoil is preserved and replaced. Where native topsoil is not preserved and replaced, shrubs anticipated to be cleared shall be inventoried for replacement.
6. In native growth areas, trees and shrubs may be inventoried by actual count or by sampling method that will properly represent the woody vegetation population. A sampling plan developed by the company, filed with the North Dakota Public Service Commission (Commission) and approved prior to the start of construction shall define the sampling method to be used for trees, for tall shrubs and for low shrubs. The data from the sample plots shall be extrapolated to the total acreage of the wooded area to be cleared to determine the species and quantity of trees and shrubs to be replaced.

Clearing for Construction

7. Trees and shrubs shall be selectively cleared, leaving mature trees and shrubs intact where practical.
8. The width of clear cuts through windbreaks, shelterbelts and all other wooded areas shall be limited to 50 feet or less unless otherwise approved by the NDPSC.
9. If the area of trees or shrubs actually cleared differs from the area inventoried, the difference in number of trees and shrubs to be replaced shall be noted on the inventory.

Replacement

10. Prior to tree/shrub replacement, documentation identifying the number and variety of trees removed as well as the mitigation plan for the proposed number, variety, type, location and date of replacement plantings shall be filed with the NSPSC for approval.
11. Tree replacement shall be on a 2 to 1 basis with 2-year-old saplings. Shrub replacement shall be on a 2 to 1 basis with stem cuttings.
12. Trees and shrubs shall be replaced by the same species or similar species suitable for North Dakota growing conditions as recommended by the North Dakota Forest Service.
13. Landowners shall be given the option of having replacement trees/shrubs planted off the right-of-way on the landowner's property or waiving that requirement in writing and allowing those replacement trees/shrubs to be planted at alternative locations.
14. At the conclusion of the project, documentation identifying the actual number, variety, type, location, and date of the replacement plantings shall be filed with the NDPSC.
15. Tree/shrub replacements shall be inspected once a year for three years, on about the anniversary of the plantings, and, on or shortly before October 1 of each year, a report shall be submitted to the NDPSC documenting the condition of replacement planting and any woodlands work completed. If after three years from the anniversary of the plantings the survival rate is less than 75%, the NDPSC may order additional planting(s).

Appendix B

Sampling Form

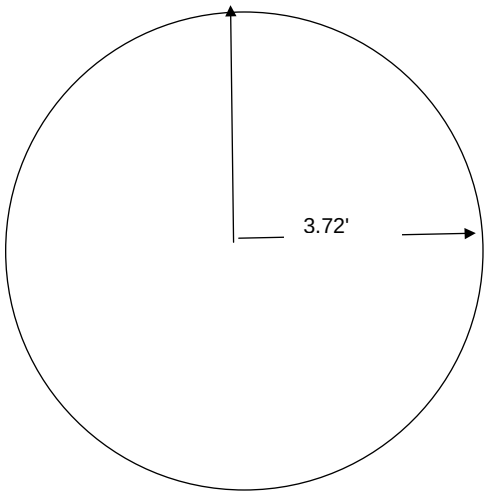
TREE/SHRUB INVENTORY **BakkenLink Pipeline**				
Sampled by:			**Date:**	
Location / Site ID:				
Woodland Type (circle): Native Planted		**Plot Size (circle): 3.72 ft 37.2 ft**		
SPECIES	**Planted**	**Native**		**TOTAL**
	All trees shrubs	**Trees >1”**	**All shrubs**	

Appendix C

Shrub Sampling Method

Sample Plot

- Circular sample plots with a radius of 3.72 feet, or area equivalent to 0.001 acres created with a central stake and rope.
- The rope, 3.72 feet in length, anchored to the central stake and rotated in a circle



Shrub Counts

- Direct stem counts from each plot
- Tallied on work sheet by species

Woodland size

- GPS points taken in the field around boundary
- GIS used to calculate acreage

Calculations

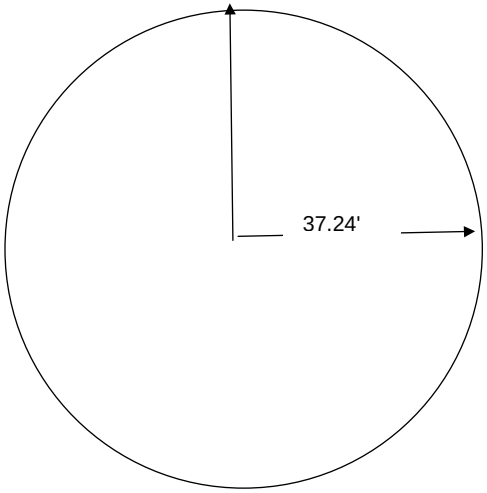
- Average determined from all plots sampled in a woodland area or area is equivalent to stems/0.001 acre
- Converted to a per acre basis (average times 1,000)
- Total number per woodland determined by multiplying average number per acre with woodland size

Appendix D

Tree Sampling Method

Sample Plot

- Circular sample plots with a radius of 37.24 feet, or area equivalent to 0.10 acres created with a central stake and rope.
- The rope, 37.24 feet in length, anchored to the central stake and rotated in a circle



Tree Counts

- Direct stem counts from each sample site
- Tallied on work sheet by species

Woodland size

- GPS points taken in the field around boundary
- GIS used to calculate acreage

Calculations

- Average determined from all plots sampled in a woodland area or area is equivalent to stems/0.10 acre
- Converted to a per acre basis (average times 10)

- Total number per woodland determined by multiplying average number per acre with woodland size

Appendix C

Summary of Affected Landowners and Plantings

Landowner Name	Section	Township	Range	County	Species of Shrubs Construction Crew	Species of Trees Construction Crew	Total Shrubs Removed	Total Trees Removed	Landowner Contacted	Planting			Trees Planted	Species of Shrubs Planted
										Year	Tree	Shrub		
BARANKO DALE	3	142	99	Billings		Green Ash	0	1	Replacements not wanted	2013	0	0		
BORSETH/MAX R	23	148	99	McKenzie	American Plum	Green Ash	12	10	6/16/2014, 9/3/2014	2014	0	0		
BORSETH/MAX R/ET AL	23	148	99	McKenzie	Juneberry, Buffaloberry & Chokecherry	Rocky Mountain Juniper & Russian Olive	144	12	6/16/2014, 7/14/2014, 9/13/2014	2014	0	0		
BRODERSON/RONALD D & KAREN M/JT	2	149	98	McKenzie	Juneberry		73	0	Replacements not wanted	2013	0	0		
GROSULAK GERALD & TINA	34	141	99	Billings	Chokecherry	Siberian Elm	1	13	Billings County Soil Conservation District, Fall 2015	2015	0	0		
HAAG JAMES & ROXANN	24	144	99	Billings	Northern Hawthorn		21	0	Made payment to landowner to replace trees	2014				
HAAG JAMES M & ROXANN	24	144	99	Billings	Juneberry, Northern Hawthorn & American Plum	Green Ash	142	18	Made payment to landowner to replace trees	2014				
HARTEL/LEMOINE D & CLARICE J/JT	23	150	98	McKenzie		Boxelder	0	3	7/14/2014, 7/31/2014	2015	24	12	Green Ash, Bur Oak, Haralred Apple, Sweet Six. Apple, Pon. Pine	Chokecherry, Com. Lilac
HECKER RAYMOND & HECKER ANTON	2	143	99	Billings	Northern Hawthorn, Chokecherry & Buffaloberry	Green Ash, Rocky Mountain Juniper & American Elm	559	231	Replacements not wanted	2013	0	0		
HECKER RAYMOND & HECKER ANTON	11	143	99	Billings	Northern Hawthorn, Chokecherry & Buffaloberry	Green Ash & American Elm	451	40	Replacements not wanted	2013	0	0		
HOFFMANN LIVING TRUST	11	149	98	McKenzie		Green Ash	0	4	6/16/2014, 7/14/2014, 9/13/2014	2015	8	19	Green Ash	Com. Lilac
HOFFMANN LIVING TRUST	2	149	98	McKenzie		Green Ash	0	10	6/16/2014, 7/14/2014, 9/13/2014	2015				
HOFFMANN/DAVID L & DENAE/JT	11	149	98	McKenzie	Juneberry & American Plum	Green Ash	39	1	6/16/2014, 7/14/2014, 9/13/2014	2015				
JOST/MELE & BOYCE VAN VLEET JT	18	145	98	McKenzie	N. Hawthorn, American Plum, Chokecherry & Buffaloberry	Green Ash & American Elm	34	6	Replacements not wanted	2013	0	0		
JOST/MERLE	20	145	98	McKenzie	Chokecherry, Buffaloberry, Common Juniper & Silver Sagebrush	Green Ash & American Elm	2,090	135	Replacements not wanted	2013	0	0		
KADRMAS ROQUE D & KAREN	25	144	99	Billings	American Plum, Chokecherry, Northern Hawthorn, Juneberry & Buffaloberry	Green Ash	59	2	Billings County Soil Conservation District, Fall 2015, would like trees planted in Dunn County. Working with DCSCD	2016	2177	1425	RM Juniper, P. Pine, Scotch Pine, Plum, Cherry,	Buffaloberry, Sumac, Silverberry
KLAMM/JOHN PAUL	15	150	97	McKenzie		Siberian Elm	0	39	6/16/2014, 7/14/2014, 9/30/2014	2015	241	156	Pon. Pine, S. Cottonwood, Hybrid Poplar	Com. Lilac
KNAPP/JOHN & CHRISTINA	36	146	99	McKenzie	Creeping Juniper, Skunkbrush Sumac & Silver Sagebrush		8	0	6/16/2014, 7/14/2014	2014	0	0		

Landowner Name	Section	Township	Range	County	Species of Shrubs Construction Crew	Species of Trees Construction Crew	Total Shrubs Removed	Total Trees Removed	Landowner Contacted	Planting			Trees Planted	Species of Shrubs Planted
										Year	Tree	Shrub		
KOESER/MARK & JANICE/JT	24	150	98	McKenzie	Chokecherry & Buffaloberry		27	0	6/16/2014 , 7/14/2014	2015	113	86	Plum, Crabapple, Pear	Chokecherry
KORDONOWY LOREN C.	15	142	99	Billings		Cottonwood	0	4	6/16/2014	2015	0	0		
LEE/SHIRLEY (Mike, son)	36	146	99	McKenzie	Northern Hawthorn, Pin-Cherry, Chokecherry, Buffaloberry	Green Ash & Quaking Aspen	56	16	6/16/2014, 7/14/2014, 9/13/2014	2015	243	291	Green Ash	Com. Lilac
LEVANG/GARY & PATSY	18	150	95	McKenzie	Juneberry, Chokecherry & Buffaloberry		2,283	0	Replacements not wanted	2013	0	0		
LEVANG/GARY & PATSY	18	150	95	McKenzie	Juneberry & Chokecherry		307	0	Replacements not wanted	2013	0	0		
LILLIBRIDGE/WILLIAM/& JEAN FRASE &	20	150	96	McKenzie		Green Ash	0	2	Replacements not wanted	2013	0	0		
LUND/JAYSON & AMY/JT	18	150	97	McKenzie	Juneberry & Buffaloberry		19	0	6/16/2014, 7/14/2014, 8/26/2014	2015	260	340	Russian Olive, Blue Spruce, BH Spruce	Com. Lilac
LUND/JAYSON & AMY/JT	17	150	97	McKenzie		Green Ash & Ponderosa Pine	0	15	6/16/2014, 7/14/2014, 8/26/2014	2015	0	0		
NORSTOG FAMILY TRUST (Paul)	0	148	99	McKenzie	Juneberry & Northern Hawthorn	Green Ash	1,950	31	6/16/2014	2015	150	288	Juniper, Plum, East. Cedar, Pon. Pine, Green Ash	Hanson H. Rose, Com. Lilac, Com. Chokecherry
POJORLIE/JAMES & COLLEEN	12	145	99	McKenzie	Juneberry, Northern Hawthorn & Chokecherry	Green Ash & American Elm	2,438	51	6/16/2014, 7/14/2016	2015	140	592	Blue Spruce	Schub. Chokecherry, Com. Lilac, Han. H. Rose
POJORLIE/JAMES P &COLLEEN/JT	12	145	99	McKenzie	Northern Hawthorn, Chokecherry, Buffaloberry & Silver Sagebrush	Green Ash	515	29	6/16/2014, 7/14/2016	2015				
PRESTANGEN/ROCKY/& JONILLA KELLOGG	28	149	98	McKenzie		Siberian Elm	0	10	6/16/2014, 6/18/2014	2015	628	659	Black & Blue Spruce, Crabapple, Amur Maple, Plum, Pear, Russian Olive, Pon. Pine, Green Ash	Han. H. Rose, Com. Lilac, Caragana, Chokecherry, Schub. Chokecherry
RAUSER FAMILY FARM TRUST	29	149	98	McKenzie	Skunkbrush Sumac & Silver Sagebrush	Green Ash	204	5	6/16/2014, 7/14/2014	2015	68	23	Blue & Black Spruce	Com. Lilac
RAUSER FAMILY FARM TRUST	30	149	98	McKenzie		Green Ash	0	1	6/16/2014, 7/14/2014	2015				
RAUSER FAMILY FARM TRUST	30	149	98	McKenzie		Green Ash	0	4	6/16/2014, 7/14/2014	2015				

Landowner Name	Section	Township	Range	County	Species of Shrubs Construction Crew	Species of Trees Construction Crew	Total Shrubs Removed	Total Trees Removed	Landowner Contacted	Planting			Trees Planted	Species of Shrubs Planted
										Year	Tree	Shrub		
RAVIN/MAALFRID KRINGLAAK/ET	15	150	97	McKenzie	Juneberry, Northern Hawthorn & American Plum		336	0	Replacements not wanted	2013	0	0		
REDMOND PATRICK P	2	139	100	Billings		Siberian Elm & Green Ash	0	15	Replacements not wanted	2013	0	0		
RINK/DELMER L & MARCELLINE	13	150	97	McKenzie	Juneberry & Northern Hawthorn	Rocky Mountain Juniper & Green Ash	879	13	9/3/2014	2015	24	87	Dropmore Elm	Com. Lilac
RINK/DELMER L & MARCELLINE	18	150	96	McKenzie	Creeping Juniper	Green Ash	1	3	Replacements not wanted	2013	0	0		
RINK/DELMER L & MARCELLINE	21	150	96	McKenzie	Juneberry	Green Ash & American Elm	1,488	45	Replacements not wanted	2013	0	0		
SAFRATOWICH ARTHUR	34	141	99	Billings		Siberian Elm	0	14	Replacements not wanted	2013	0	0		
STENEHJEM/JUDITH H/(SLS) LTD PTR	31	149	98	McKenzie	Juneberry, American Plum & Silver Sagebrush		539	0	6/16/2014, 7/22/2014	2014	0	0		
STEVENSON/RANDALL	15	149	98	McKenzie	Juneberry, Northern Hawthorn, American Plum, Creeping Juniper & Skunkbrush Sumac	Rocky Mountain Juniper, American Elm & Green Ash	2,084	67	6/16/2014	2015	1,594	840	Green Ash, Russian Olive, Juniper, Elm, Plum	Caragana, Lilac, Chokecherry
STEVENSON/RANDALL D	15	149	98	McKenzie	Northern Hawthorn, Creeping Juniper, Skunkbrush Sumac & Silver Sagebrush		97	0	6/16/2014	2015				
STUTRUD/ODIN C & HAZEL G/JT	25	148	99	McKenzie		Colorado Spruce, Russian Olive & Green Ash	0	11	6/16/2014, 7/14/2014, 9/3/2014	2014	0	0		
TACHENKO CODY J & JANELL	13	144	99	Billings			0	0	6/16/2016, 7/14/2016	2014	0	0		
TACHENKO, VIRGINIA	14	144	99	Billings	Northern Hawthorn, Chokecherry, Buffaloberry	Green Ash	36	10	6/16/2016, 7/14/2016	2014	0	0		
TACHENKO, VIRGINIA	11	144	99	Billings	Northern Hawthorn & Buffaloberry	American Elm	15	1	6/16/20116, 7/14/2016	2014	0	0		
TARNAVSKY/MARY E/IRREVOCABLE	25	146	99	McKenzie	Red Osier Dogwood & Chokecherry	Green Ash, American Elm, Quaking Aspen	3,608	688	Replacments not wanted	2013	0	0		
TARNAVSKY/MARY E/IRREVOCABLE	25	146	99	McKenzie	Northern Hawthorn, Chokecherry, Buffaloberry & Common Juniper	Green Ash & Peachleaf Willow	65	17	Replacments not wanted	2013	0	0		

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										Year	Tree	Shrub		
TWEDEN/WALLACE D/TRUSTEE	14	148	99	McKenzie	Northern Hawthorn, American Plum, Chokecherry & Buffaloberry	Green Ash, Rocky Mountain Juniper & American Elm	1,410	13	6/16/2014, 7/14/2014	2015	1991	6,515	Green Ash, Elm, Am. Plum	Caragana, Crabapple, Com. Lilac, G. Current, Dogwood, Nakingcherry, Seabuthorn, Chokecherry, Honeysuckle
USA	29	145	98	McKenzie	Chokecherry, Buffaloberry, Common Juniper, Creeping Juniper	Green Ash, Rocky Mountain Juniper & American Elm	91	9	Replacments not wanted	2013	0	0		
USA	24	147	99	McKenzie	Northern Hawthorn, Chokecherry, Buffaloberry, Skunkbrush Sumac & Silver Sagebrush	Green Ash, Rocky Mountain Juniper & American Elm	437	16	Replacements not wanted	2013	0	0		
USA	13	147	99	McKenzie	Northern Hawthorn, Chokecherry & Skunkbrush Sumac	Green Ash & American Elm	12	3	Replacements not wanted	2013	0	0		
USA	18	147	98	McKenzie	Chokecherry, Buffaloberry, Common Juniper, Skunkbrush Sumac & Silver Sagebrush	Green Ash, Rocky Mountain Juniper & American Elm	347	238	Replacements not wanted	2013	0	0		
VEEDER/DAVID	13	150	96	McKenzie	Northern Hawthorn, Chokecherry, Buffaloberry & Silver Sagebrush	American Elm	242	4	Replacements not wanted	2013	0	0		
VEEDER/ROSALIE C	22	150	96	McKenzie		Green Ash & Russian Olive	0	8	6/16/2014	2015	18	18	Plum, Pon. Pine	Caragana
WANNER, ADAM	10	141	99	Billings	Siberian Peashrub	Green Ash & Siberian Elm	35	19	Billings County Soil Conservation District, Fall 2015	2015	0	0		
WATSON/WOODIE L	1	147	99	McKenzie	Salix spp. (Willow), Silver Sagebrush	Green Ash, Peachleaf Willow, American Elm, Cottonwood & Quaking Aspen	6	163	Replacements not wanted	2013	0	0		
ZINGLEMAN/DON H	11	148	99	McKenzie	American Plum & Chokecherry	Green Ash	49	3	6/16/2014	2015	200	218	Green Ash, Juniper	Ccom. Lilac
ZINGLEMAN/DON H/& THE DON ZINGLEMA	0	148	99	McKenzie	Juneberry, Northern Hawthorn, Creeping Juniper, Silver Sagebrush	Green Ash & American Elm	2,103	89	6/16/2014	2015	0	0		
ZUBKE/DENTON & MARGARET/JT	31	149	98	McKenzie	Buffaloberry		382	0	6/16/2014, 7/14/2014	2015	204	470	Am. Plum, P. Pine, Boxelder, Dol. Crabapple	G. Currant, Com. Chokecherry, Juneberry, Skunkbush Sumac
ZUBKE/DRUSILLA/FAMILY TRUST	7	145	98	McKenzie		Siberian Elm	0	18	Replacements not wanted	2013	0	0		
Fryburg Rail Terminal	10	139	100	Billings					Billings County Soil Conservation District, Fall 2015	2016	220	1,000	Green Ash	Lilac, Caragana

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										Year	Tree	Shrub		
						Total taken out	25694	2160			8,303	13,039		
							x 2	x 2						
						Number to Replace	51,388	4,354						
						Planted	13,039	8,303						
						Difference	38,349	(3,949)						