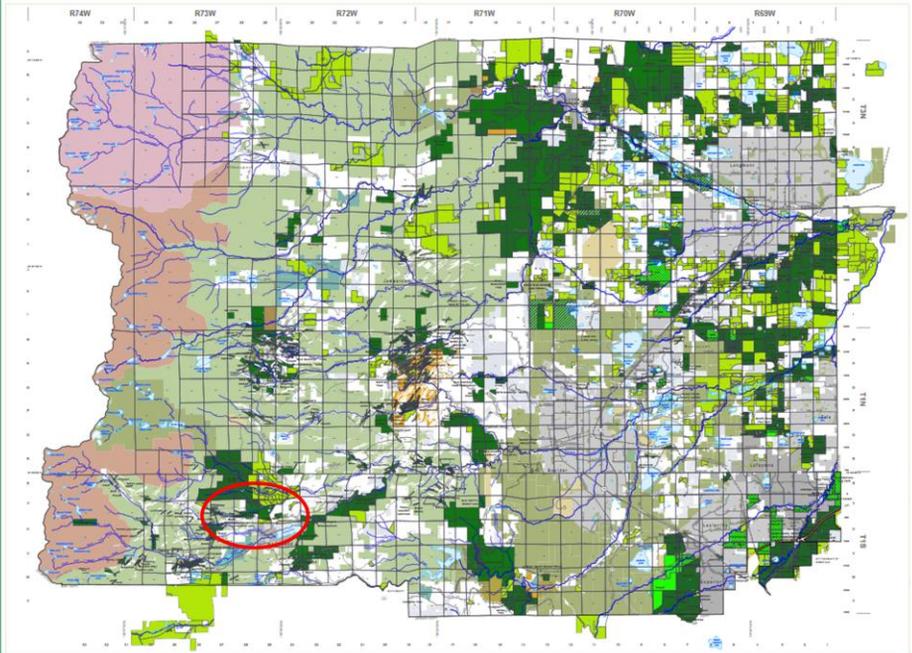


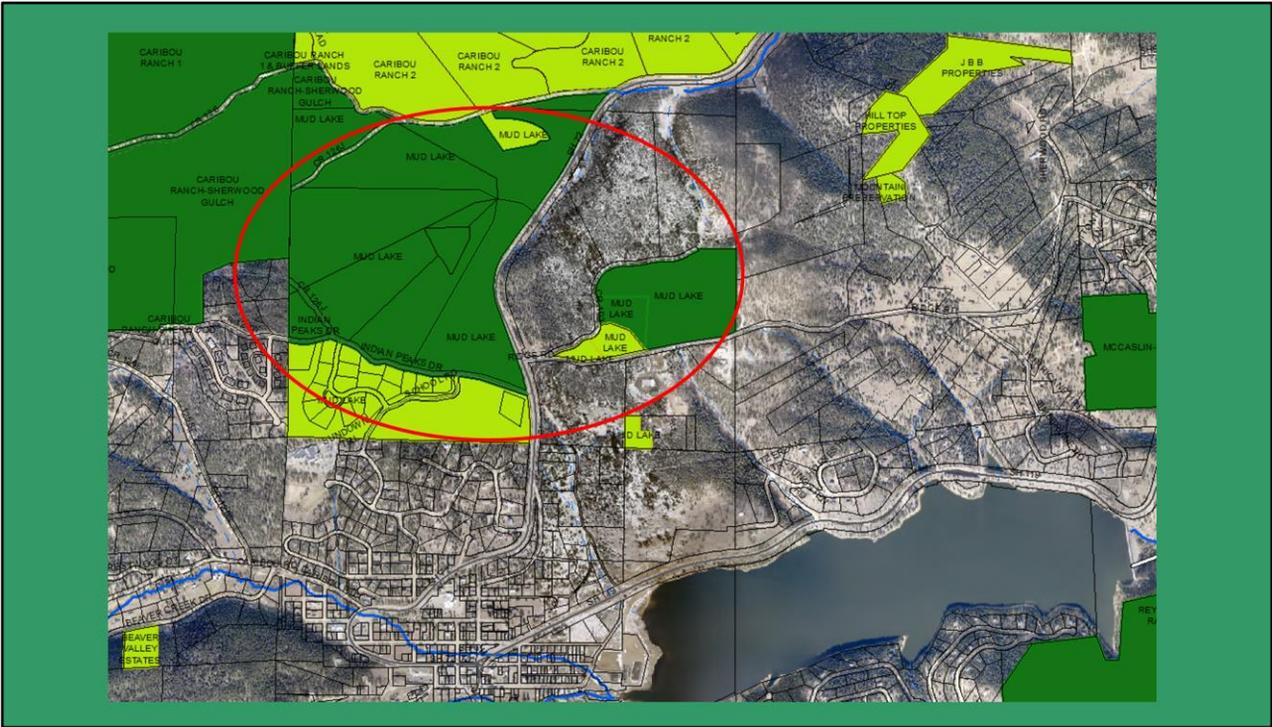


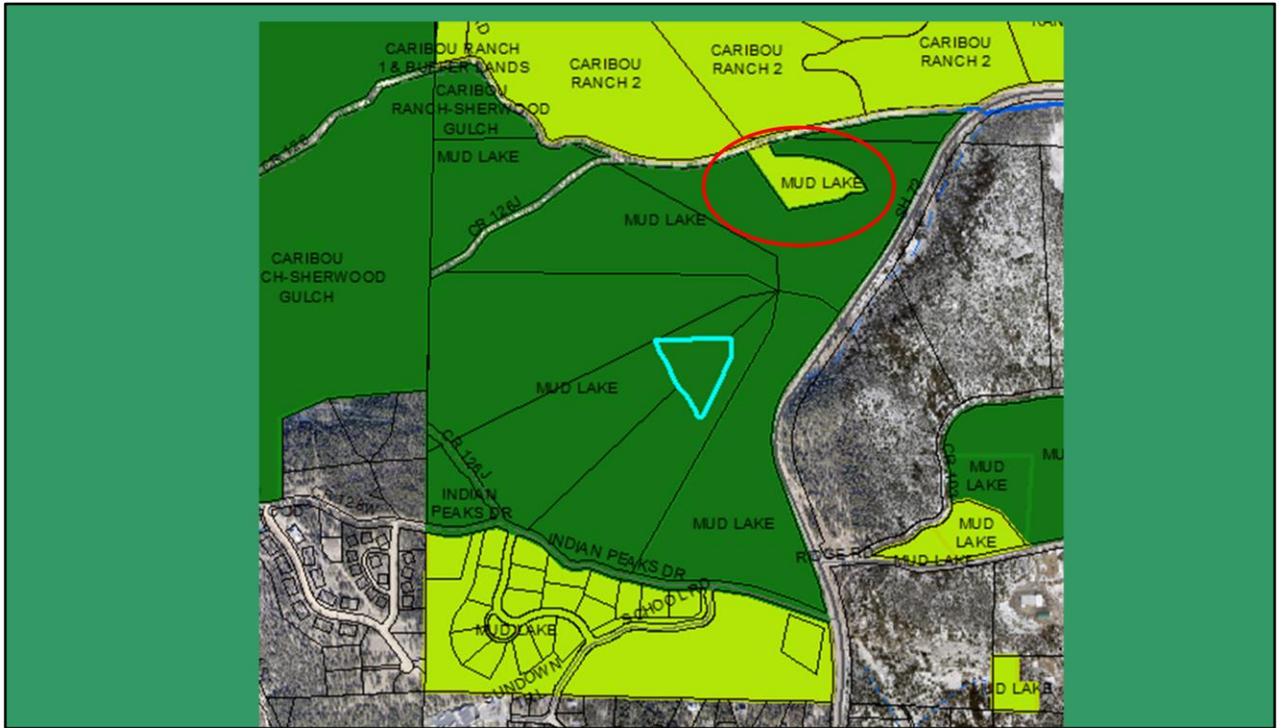
Parks &
Open Space

Mud Lake-Wild Bear Exchange 2 November 16, 2017

Open Space in Boulder County

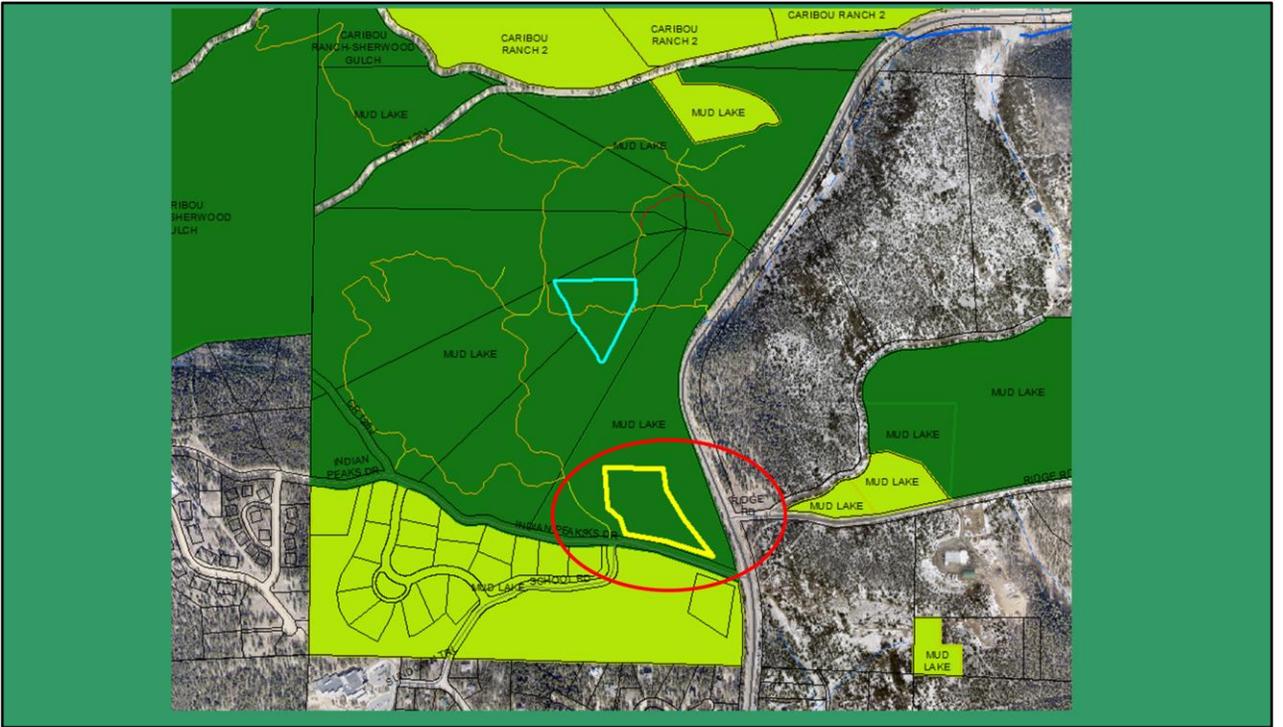


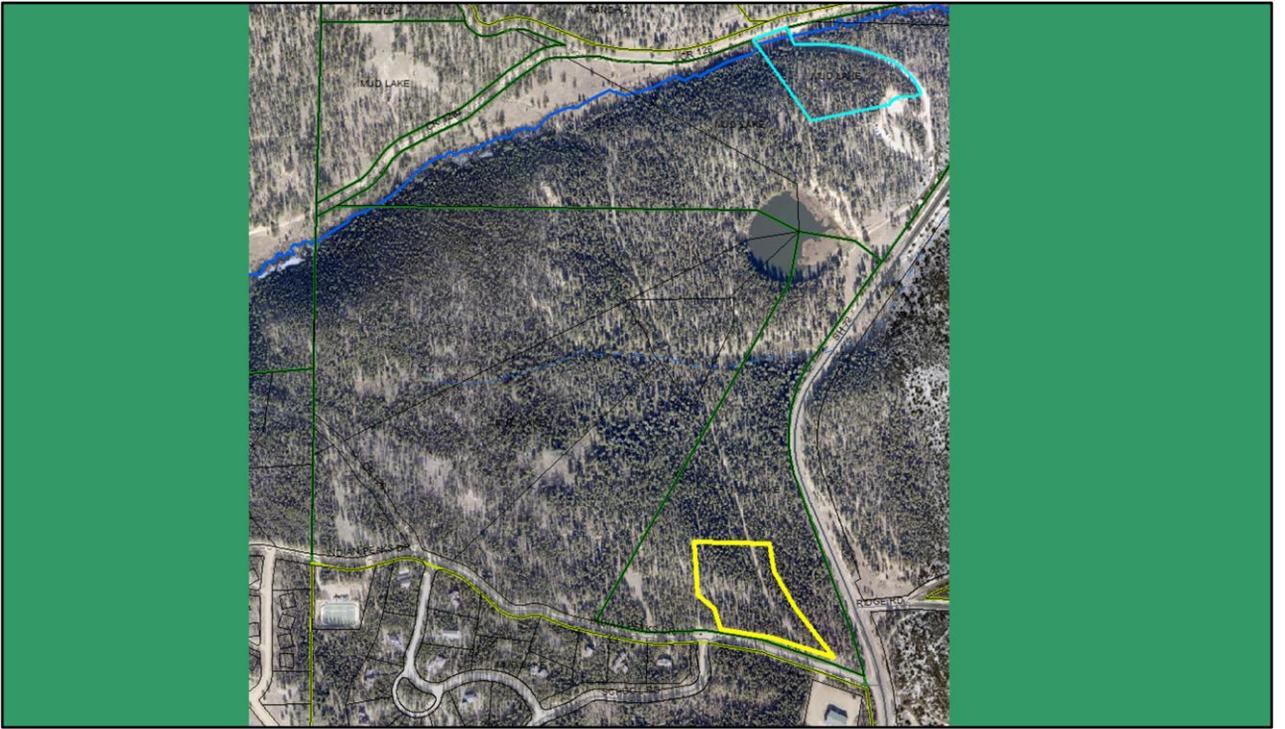




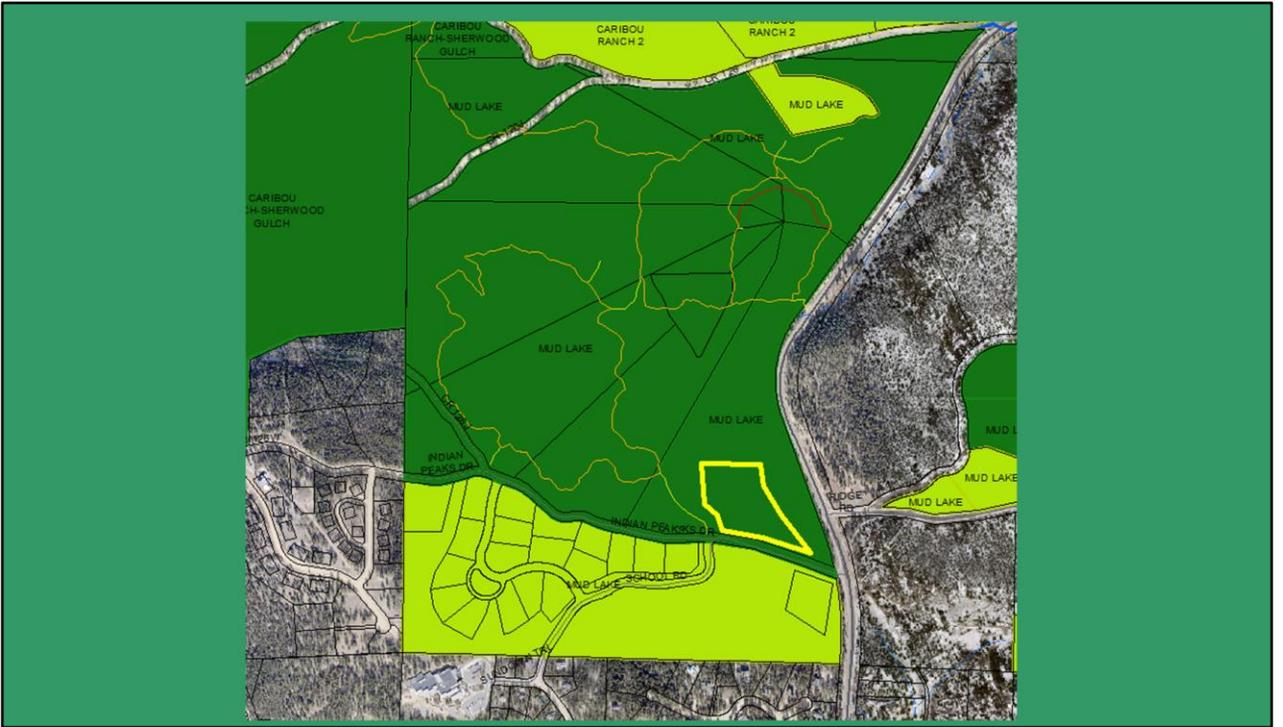
2013



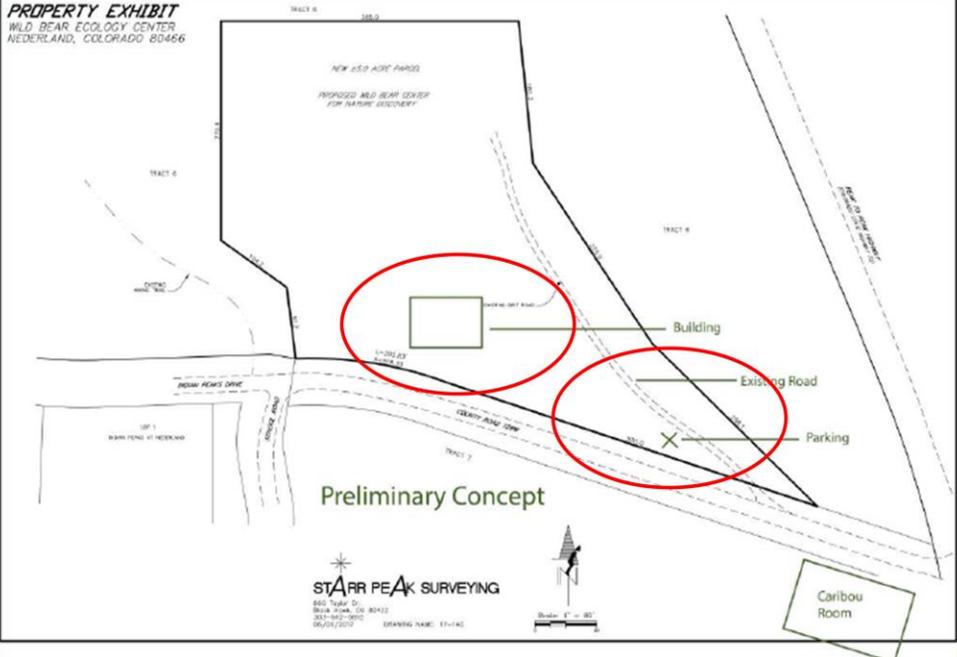








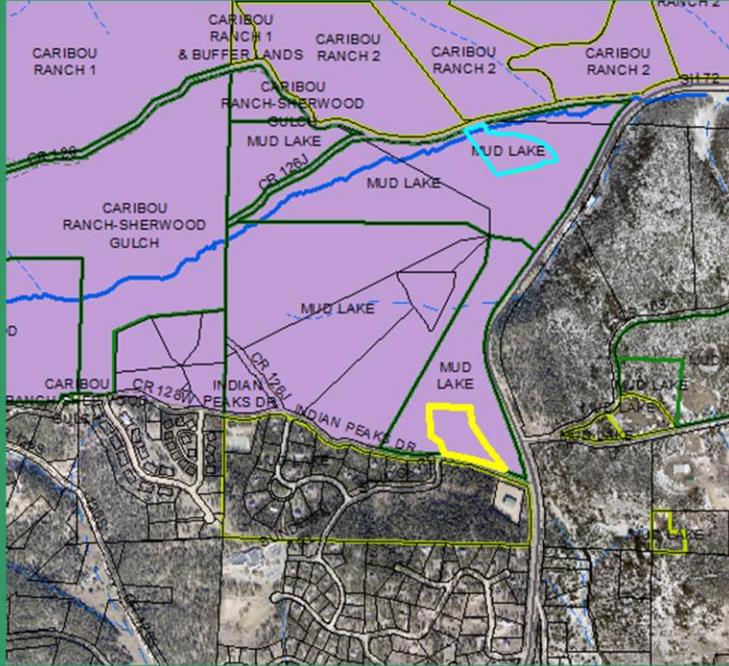
PROPERTY EXHIBIT
WILD BEAR ECOLOGY CENTER
NEEDLAND, COLORADO 80456



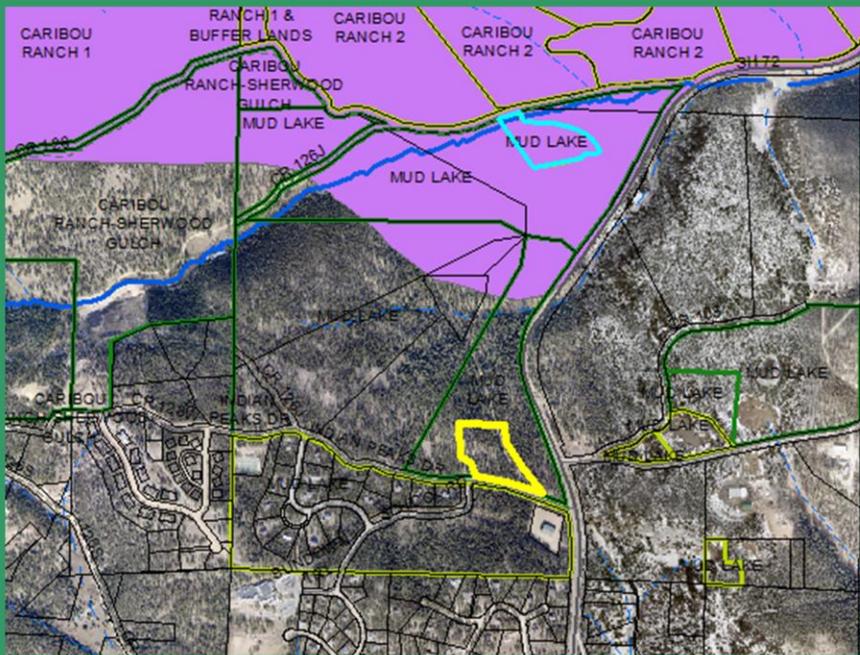




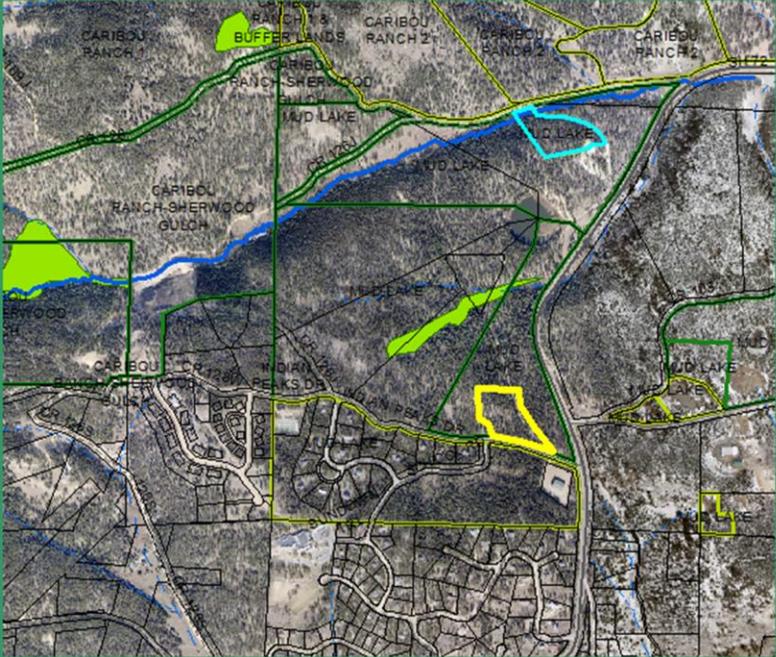
New location is still within the Indian Peaks Environmental Conservation Area.

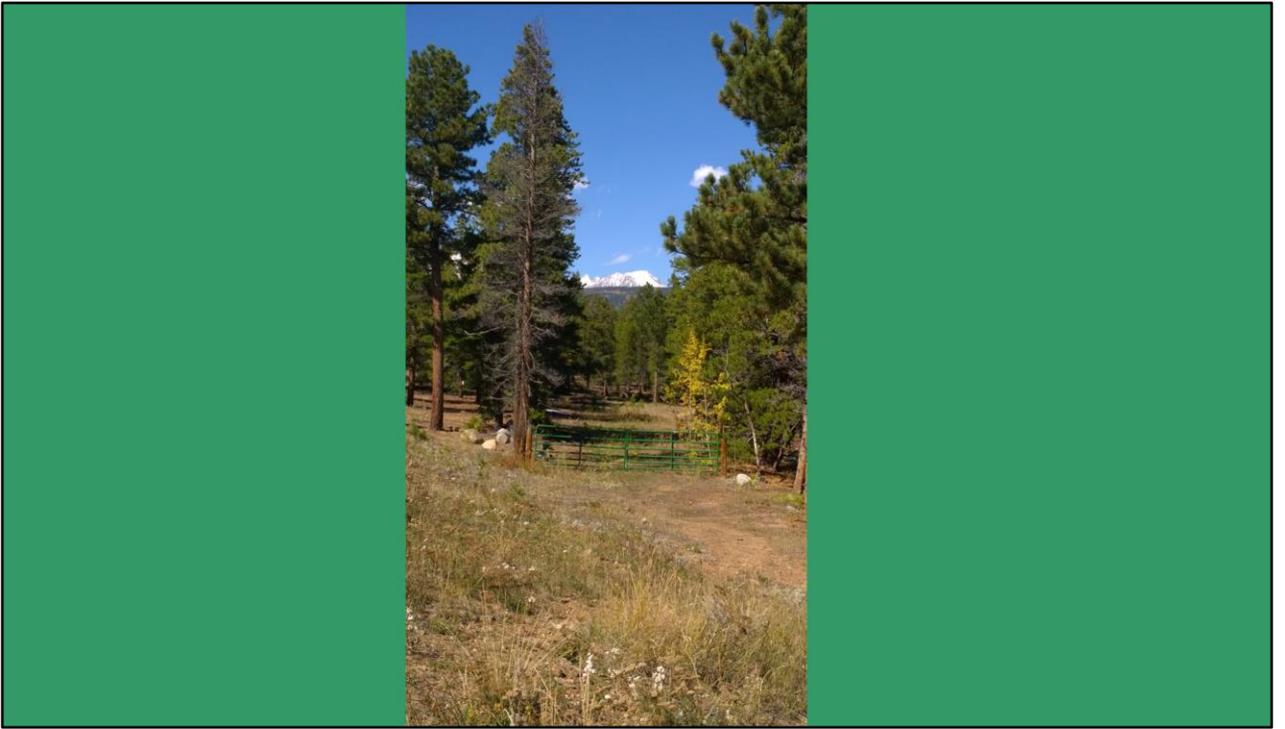


New location is further away from critical wildlife habitats.



New location is away from Significant Natural Communities .







Parks &
Open Space









Parks &
Open Space

2018-2023 CIP

Boulder County Parks & Open Space

POSAC Meeting

November 16, 2017

2017 CIP

Category	CIP
Recreation & Facilities	\$225,000
Historic Preservation	\$100,000
Public Education	\$20,000
Agriculture	\$125,000
Forestry	\$185,157
Ecosystems	\$129,425
Contingency	\$54,418
Total	\$775,000

Explain the process changes

- Move away from set allocations
- Award funds to shovel ready projects
- Reduce budget carryovers
- Flex to spend more in one category in a given year

2017 CIP Leverage

	2016 Carry-over	Grants	Partner/ Other	CIP	Total
Recreation & Facilities	\$tbd	\$0	\$0	\$225,000	\$225,000
Historic Preservation	\$152,475	\$0	\$60	\$100,000	\$212,475
Public Education	\$0	\$0	\$0	\$20,000	\$20,000
Agriculture	\$0	\$98,056	\$83,614	\$125,000	\$382,609
Forestry	\$0	\$31,610	\$0	\$185,157	\$367,872
Ecosystems	\$27,500	\$60,000	\$1,147,000	\$129,425	\$1,518,425
Total	\$211,975	\$1,118,056	\$1,230,614	\$720,582	\$3,431,227

Carryover ~\$212,000, will likely go up

Leverage = \$1,118,056 (grants)+ \$1,230,614 (partner) = \$2,348,670 or 3.03 x \$775k CIP

Recreation & Facilities



2018:

- Heil 2
- Toll Property Trail
- O&M Guidelines
- AHC Irrigation
- LHVG Finish

• 2019:

- Heil 2 Improvements
- Toll Property Trail
- Walker Ranch
- McIntosh Barn ADA Access
- Parking Lot Upgrade
- Braly Design
- Restroom/Trailhead Service

Heil 2 Improvements

Complete parking lot
and equestrian trail

2018: \$135k

2019: \$55k



Heil 2 Improvements: 2018, 2019 CIP.

- The County purchased the 210 acre Heil 2 property in late 2012
- A small area plan for Heil 2 was completed and approved in May, 2016
- improvements include a trails, trailhead, and trailhead amenities
- The Overland Loop Trail opened in 2017
- CIP funds are earmarked for completing the improvements adopted in the Heil Valley Ranch 2 Small Area Plan. See also HP #1.

2018: Toll Trail

Class III Cultural Resource Inventory



Toll Property Trail: 2018-2021 CIP. In January, 2015, Boulder County partnered with the Colorado State Forest Service and Great Outdoors Colorado, with coordination by The Conservation Fund, to acquire a conservation easement over approximately 3,334 acres of the Tolland Ranch property near Eldora Ski area in western Boulder County and Gilpin County.

The acquisition includes a 6.5-mile long trail easement.

2018 funding is for a Class III Cultural Resource Survey of the trail corridor. Plan to apply for a trail construction grant in fall of 2018 with trail construction in 2019, 2020, and 2021 if needed.

2018: Construction & Maintenance Guidelines for POS Facilities



Maintenance

CIP



Guidelines for Establishing a Maintenance Program

- **Maintenance objectives and standards must be established**
- Maintenance operations should be based on a sound, written maintenance plan
- Scheduling maintenance work must be based on sound policies and priorities
- All maintenance departments should place high emphasis on preventive maintenance
- The maintenance department must be well organized
- The maintenance program must be designed to protect the natural environment
- The maintenance department must assume the responsibility for public and employee safety
- In the design and construction of park and recreation facilities, maintenance should be a primary consideration

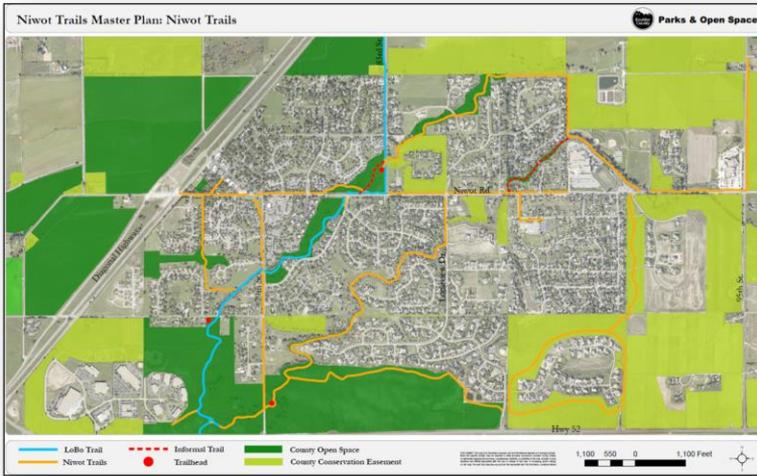
*Parks and Recreation Maintenance Management, Chapter 1: Maintenance Principals

2018: AHC Irrigation & Site Improvements



Construction & Maintenance Guidelines: Vision 2020 includes the goal of the creating construction and maintenance guidelines for parks related facilities. The funds will be used to hire a consultant to lead this project.

2018: Niwot Trail & LHVG



- Redesign and construct LHVG Trailhead
- Formalize two informal trails
- Formalize Somerset Drive Crossing

NIWOT/Left Hand Valley Grange (LHVG) Johnson Park. Grant award from Colorado State Trails in 2015, Cash-in-lieu funds, and Boulder County Transportation funds to complete work in 2017 and 2018. Work includes redesign of parking lot, restroom, kiosk, and trail re-route at LHVG and Niwot area.

2019: Braly Loop Trail & Trailhead Design



Braly Loop Trail, Parking Lot, Trailhead: 2019-2020 CIP. Fishing-is-fun grant or GOCO trails grant application in 2019 and implementation in 2020 CIP. Plans include creating a loop trail, Trailhead and parking facility, to eventually be part of the St. Vrain corridor trail. Additional funding coming from a cash-in-lieu and Boulder County Transportation (funding construction of restroom for regional trail). See also HP #4—Braly Barn rehabilitation.

Projects on tap:
2019: Walker Ranch

Historic Preservation

2018

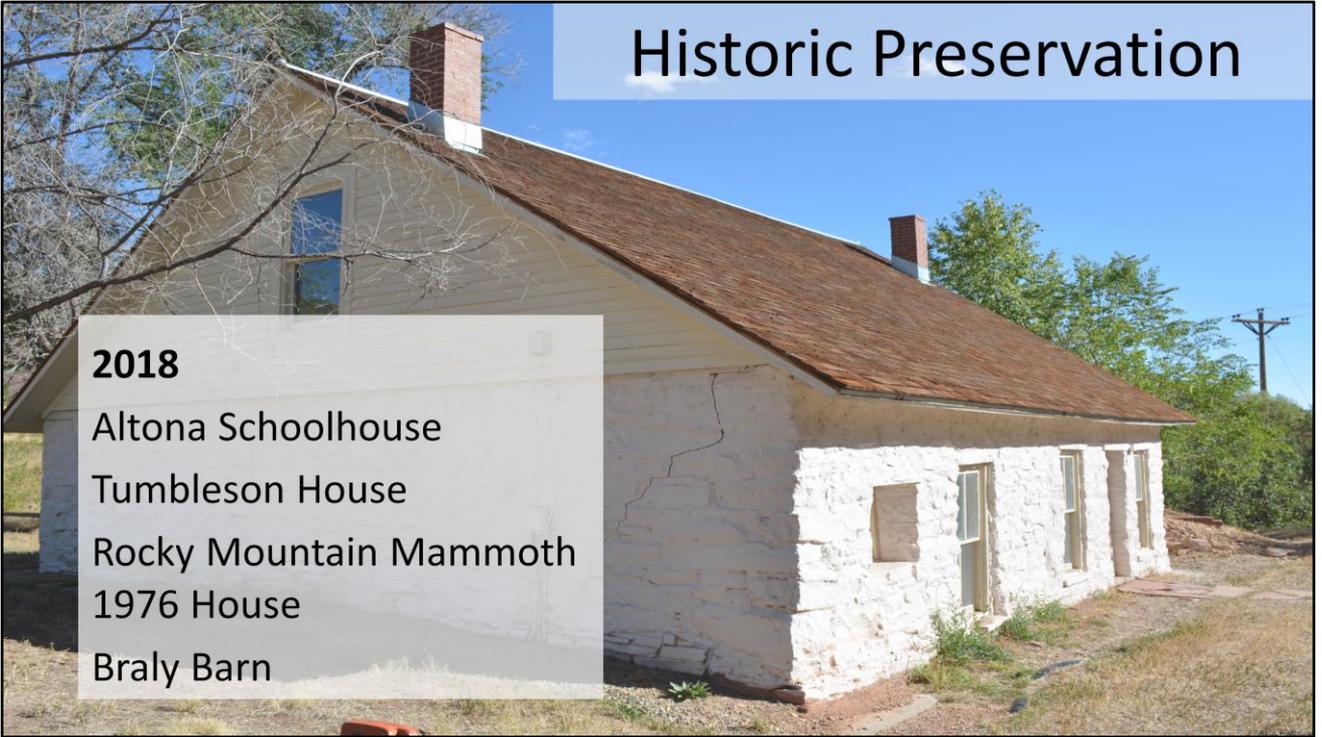
Altona Schoolhouse

Tumbleson House

Rocky Mountain Mammoth

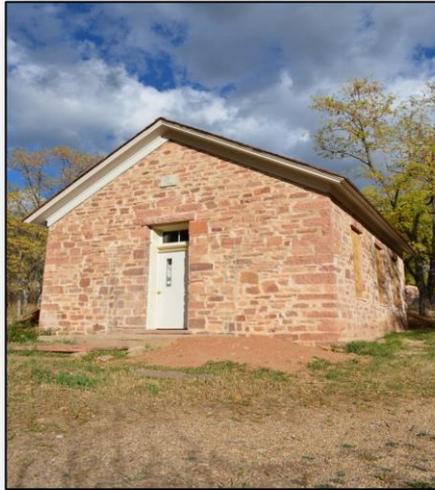
1976 House

Braly Barn



2018: Altona Schoolhouse

\$30,000



In 2012, Boulder County purchased the Heil Valley Ranch 2 property for \$6,000,000. The 210 acre property is located in north central Boulder County in the transition zone between the plains and the mountains. The Altona Schoolhouse is located along the southern boundary of the property and faces Left Hand Canyon Drive.

In 1880, the Altona community completed the one-room stone schoolhouse that we see today to educate their children. The schoolhouse is a perfect example of a utilitarian design, lacking stylistic details, and reflecting the use of locally available materials. The schoolhouse featured one open room, a stove, student desks, teacher's desk, and a chalk board. Light filtered through the six tall glass windows that run down the east and west elevations, and a transom window over the south facing entrance door. A privy, which is located a short distance to the north of the building, still remains.

In 2017, partnering with Recreation and Facilities, plans for public access and parking will be completed and the Buildings and Historic Preservation crew will complete restoration work necessary for public access in 2018.

Altona School Public Access: 2017 CIP. The 1880 Altona School is the oldest remaining one-room stone schoolhouse in Boulder County. The school educated children from the Altona community from 1880 until about 1949 when consolidation and declining population forced the school to close. The Heil family purchased the property in July 1949 and began using the building as a residence. Several small additions were added

in the 1950s, but the stone schoolhouse remained remarkably intact. BCPOS restored the schoolhouse for nonpublic access in 2015-2016. In 2017, partnering with Recreation and Facilities, construction documents for public access and parking will be completed and the Buildings and Historic Preservation crew will complete restoration work necessary for public access in 2018.

ucted the 1950s additions

2017-2018: Tumbleson House

\$102,700



The Tumbleson House is located on the Hall Ranch Open Space, 31271 South Saint Vrain Drive, Lyons, CO. The house is located at the Caretaker's Residence, approximately 1.9 miles west on Highway 7 from the intersection of Main Street and Highway 7 in Lyons. The circa 1890 Tumbleson House is an uncoursed painted white cut sandstone building that faces Highway 7 on the Hall Ranch Open Space. Although unverified, BCPOS staff believes the house was constructed by John Tumbleson before he sold the property in 1891. Records indicate there are possibly four additions to the original one story building after Tumbleson sold the property. The Hall Family purchased portions of the current ranch property in the 1940s including the Tumbleson House. In 1994, Boulder County purchased Hall Ranch from the family. Today, Hall Ranch is owned by Boulder County and managed by the Parks and Open Space Department.

Due to the deteriorating condition of the house, BCPOS contracted restoration of the house in 2001. At that time, the plan was to open the structure to the public as an interpretative center. Since the original restoration in 2001, the structure and its foundation have continued to settle and crack. The current plan is to rehabilitate the building with a new foundation with hopes it will someday be opened to the public.

In 2011, BCPOS contracted with Atkinson-Noland and Associates, Inc. of Boulder, Colorado, to correct the settling issues. Due to the five years since Atkinson-Noland designed a foundation, BCPOS had the engineers review the structure, site and plans

earlier this year. The structure experienced some settling during that period and the plans have been revised to correct further degradation.

Tumbleson House asbestos abatement: 2017-2018 CIP. The Tumbleson House at Hall Ranch was rehabilitated with part of a GOCO Legacy Grant in 2001. Since 2005, mobile soils have increased the movement of the building resulting in serious cracks in the stone walls. In 2010, a structural engineering firm was hired to evaluate the issue and complete construction documents for the repairs. Based upon the engineer's 2016 revised construction documents, a partial foundation was planned to be installed in 2017 to alleviate the movement of the building in order to keep the house viable for the future use, but the discover of asbestos in the plaster walls changed the project focus to asbestos abatement prior to foundation repair. Due to the complicated nature of removing plaster walls on a stone house, the county hired a consulting firm to assist in the plan development to remove the asbestos containing plaster walls and a structural engineering firm to safeguard the building's structural integrity to develop the abatement ITB. The goal is to release the ITB in the next few weeks and award and begin the contract process by the end of the year. The abatement phase will most likely occur in 2018, but could begin in 2017. Foundation repairs in 2020.

2017: Rocky Mountain Mammoth 1976 House \$35,000



1976 House. The shaft house and cabin date from the late 19th century, but the unfinished house dates from 1976. The 2018 CIP plan is to contract out the non-historic house deconstruction and recycling in order to return the historic site context for future public interpretation during the Hard Rock Mining Tours planned for the site in 2018.

2018-2019: Braly Barn

2018: \$25,000

2019: \$150,000



2018-2019 CIP. The circa 1903 Braly barn is located on the historic Wencel Farm northwest of Hygiene. The County purchased the 112.48-acre property June 2000. Both the main branch and the south branch of St. Vrain Creek cross the property. In 2018, engineering plans will be updated in preparation for the 2019 rehabilitation. Future public access to the property is planned after flood repair projects are completed and the proposed St. Vrain trail will also cross through the property.

2018- Contract out structural engineering plan update to meet code requirements and complete land use reviews in preparation for 2018 rehabilitation. Submit landmark application

2019 - Contract out rehabilitation

Public Education



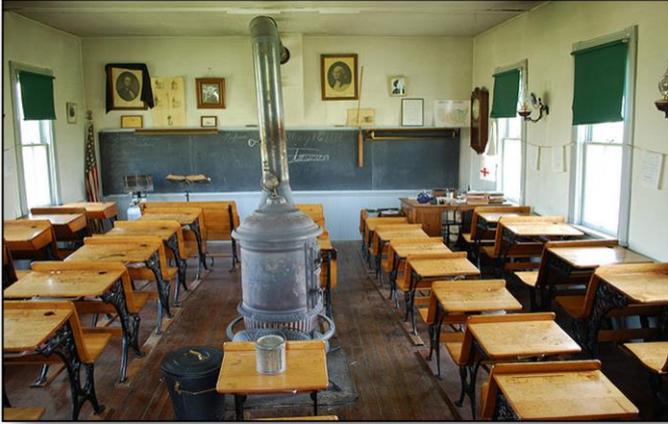
2018:

Altona School Furnishings
Heil 2 Interpretive Loop
Exhibits & Trailside Panels

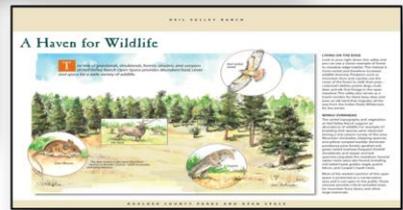
2019:

Cardinal Mill Exhibits
Assay Office
Braly Trailside Panels
Offero Enhancement

2018: Altona School Furnishing



2018: HVR 2 Interpretive Loop



2019 Projects

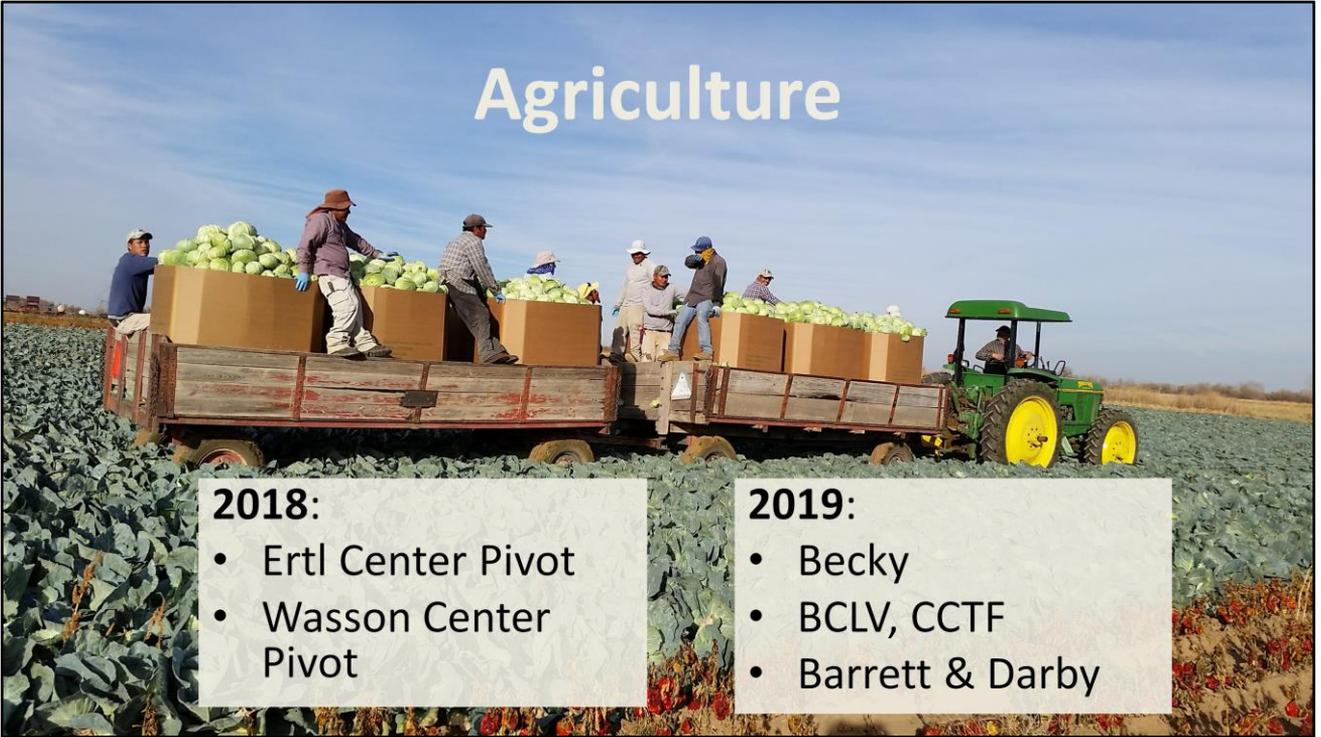


Cardinal Mill Exhibits



Braily: Tralside Panels for
Interpretive Loop

Agriculture



2018:

- Ertl Center Pivot
- Wasson Center Pivot

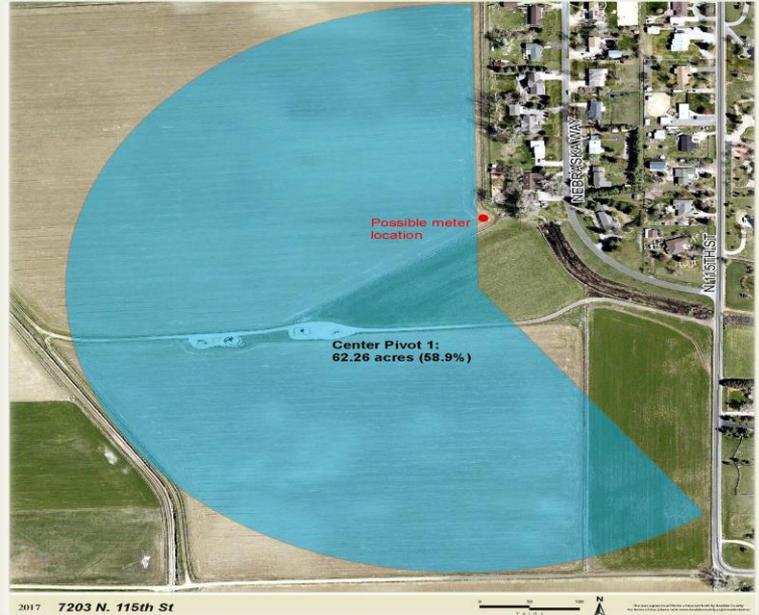
2019:

- Becky
- BCLV, CCTF
- Barrett & Darby

2018: Ertl Center Pivot

Total *	\$79,212.88
EQIP	\$33,200.00
Ag tenant	\$31,614.88
POS	\$17,398.00

*New electrical service could add anywhere from \$12k-\$65k, which could bring the total to \$144,212.98



Center pivot (wiper) sprinkler – 62+ acres

Cost of sprinkler without new electric service:

Total - \$79,212.88
EQIP - \$33,200.00
Ag tenant - \$31,614.88
POS cost share - \$17,398.00*

*POS will pay all new electric service installation cost (vary from \$12,000 to \$65,000) this will be more expensive because 3-phase power is not in close proximity.

Total cost could be as high as \$144,212.98

2018: Wasson Center Pivot

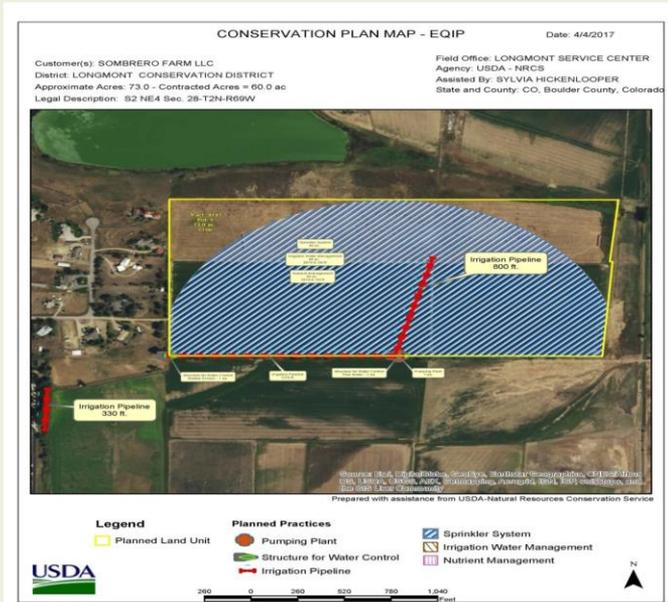
60 acres

Total cost est.: \$223,615

EQIP: \$64,856

Tenant est.: \$52,000

POS est. cost: \$106,759



The big part of the high cost is new electric service at \$65,000.

2018: Wasson Center Pivot (cont.)

Provides electric service to 3 properties



The nearest 3-phase electric power is ~1 mile away.

The good part about installing a new power line is that it will supply power to two additional irrigation systems planned in the following years.

On tap 2019

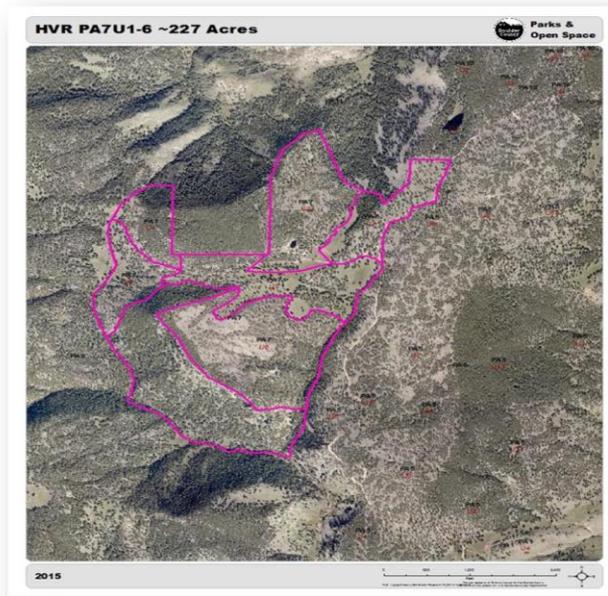
- Becky (HW 52 & E County Line Rd) Lateral conventional
- BCLV organic (Louisville) upgrade CP, provide electric, get rid of diesel
- CCTF organic Isabelle Rd. & HW287—add CP to east side, con't 2017 work
- Barrett & Darby (NE Longmont) mumford lateral irrigation pipeline—replace ditch with underground pipeline to reduce water loss

Forestry



2018:
Heil: Ingersol Rx Burn
2019:
Heil: Lichen Loop Fuels Reduction
Betasso: Arkansas Rx

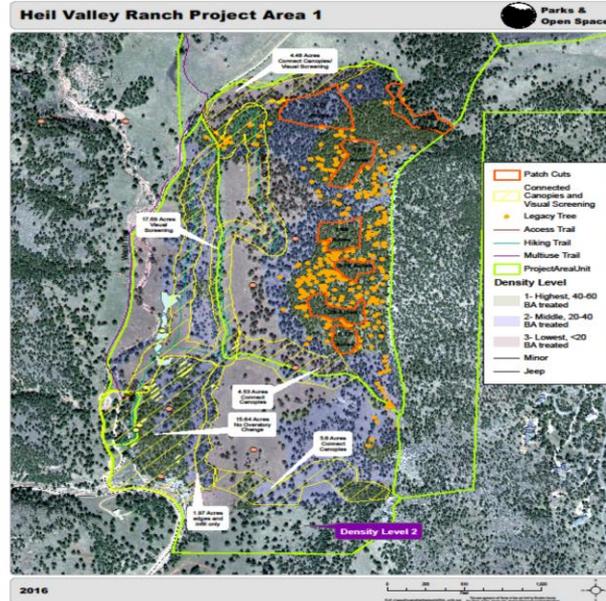
2018: Heil Ingersol Rx Burn



1. We are trying to complete at least 200-250 acres on a yearly basis
2. \$100,000 of CIP
3. Ingersol RX 2018, Priority Masticated Fuels (activity fuels)(Priority but could include anyone of our "Approved projects")

2019-2020: Lichen Loop Forestry Treatment

Heil Valley Ranch



1. 162 Acres of Forest Restoration/Fuels Reduction
2. Lichen Loop Steep Slopes below cliff edge (86 acres of steep inoperable slopes)
3. Applied For FEMA PDM Grant \$1.28 million, CIP Share \$320,000 Split over 2 years. We are also considering applying for some State money to decrease BCPOS share.
4. Elk Travel Corridor, Abert's considerations
5. The orange dots represent Pre-settlement ponderosa pine (legacy trees)

2019-2020: Lichen Loop Forestry Treatment



- Photo 1 and 2, Visual representations of Slope
- Photo 3, Dense Forest Photo

FORESTRY FUTURE

Future CIP Forest Treatments

Meyer's Gulch: 303 Acres, Walker Ranch

Buttonrock Collaborative: 389 Acres, Hall Ranch and 160 Acres, Billings

East Ochs: 94 Acres, Heil Valley Ranch

Future CIP Rx Burns

Arkansas/Canyon Loop: 103 acre, Betasso Preserve

Rattlesnake/Nelson Loop: 332 acres, Hall Ranch

Walker Fire Footprint: 800 acres, Walker Ranch

Geer Canyon : 200 acres, Heil Valley Ranch

Ecosystems

- Flood Restoration
- Grassland Restoration
- Native Plant Propagation
- Riparian Restoration
- Reclamation/Revegetation
- Wildlife Habitat

2018: Flood – Golden Fredstrom



Big bucks with \$1.147M partnerships and \$60k grants: Certificate of Participation (COPS), UDFCD, CPW wetlands grant. UDFCD continues thru 2020 for total of \$750K

3 projects in 2018

Golden Fredstrom (just east/downstream of Pella): \$60k CPW Wetland grant + \$11k CIP

Brewbaker (LH Creek)

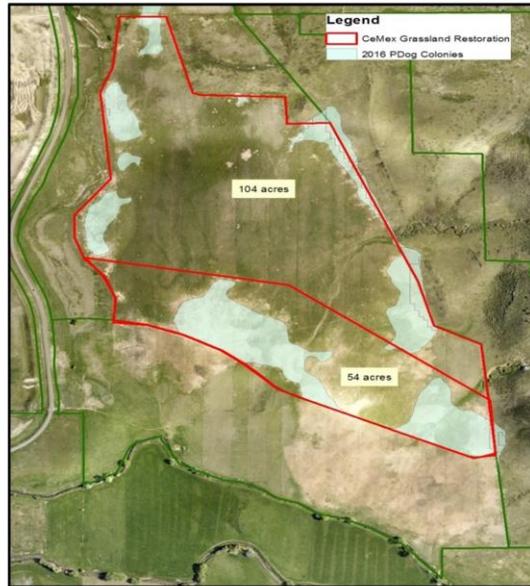
Stream realignment Construction: winter 2018

2017 CIP: \$86,000

2017-18 COPS: \$398k + \$482k

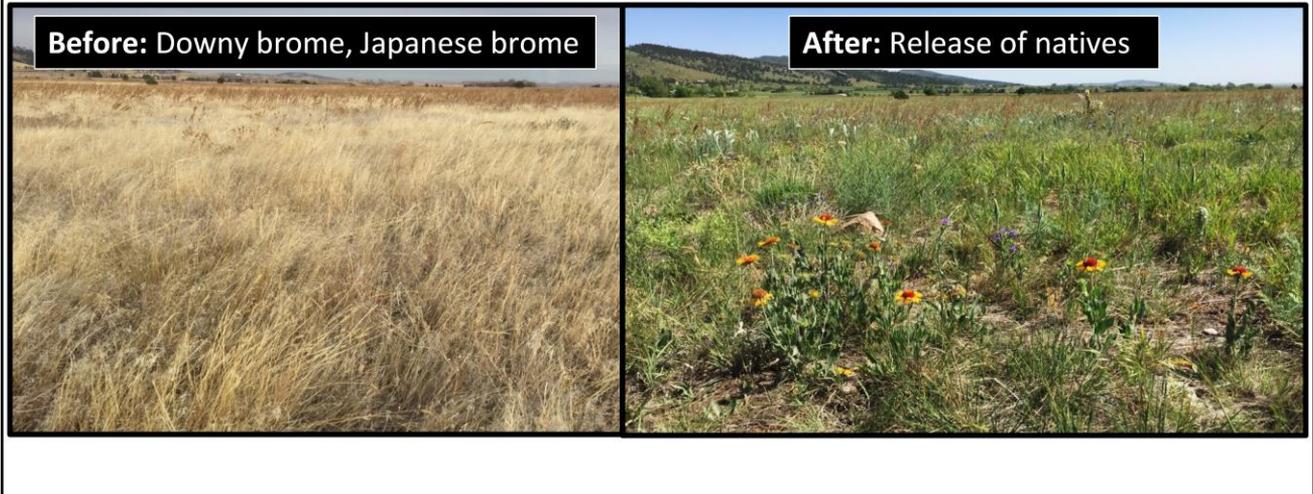
Geer: CIP \$10k, COPS \$465k: design and construct, target priority areas for stabilizing and habitat improvements

2018: Grassland Restoration - CEMEX



CEMEX Restoration—west of Dowe Flats mine operation: 2018 CIP. Restoration efforts began in 2004 and will continue through 2019. The southern approximately 160 acres will be planted to perennial natives in 2018. \$38k

2019: Grassland Restoration –Cheatgrass



Cheatgrass Restoration: \$20k 2019 CIP. BCPOS has been using an exciting new tool for restoring areas invaded by the annual grass, cheatgrass (*Bromus tectorum*), also called downy brome (*Bromus japonicus*). Research using the herbicide Esplanade has released native vegetation suppressed by cheatgrass dominance. Applications will be made on a larger scale with this funding.

Native Plant Propagation

Native Seed Garden at Peck

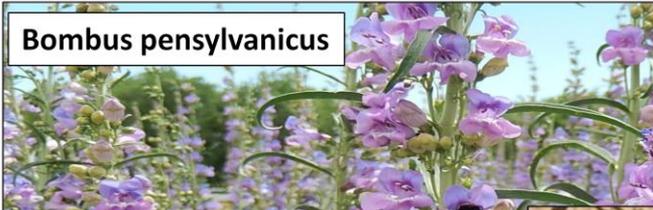


Native Plant Propagation: POS is collecting local, native ecotypes of seed that are not available commercially. Funding for this project has been provided for several years by the Rocky Flats Natural Resources Damages Fund through 2017. Seven forbs, 1 grass (sideoats grama).

Peck Photos: These are photos the Peck Native Seed Garden. We currently have 5 species growing at Peck, 3 forbs and 2 grasses. The big winners in 2017 were the penstemon, blanketflower (*Gaillardia aristida*) and the yellow coneflower (*Ratibida columnifera*).

Native Plant Propagation

Native Pollinators



Bombus pensylvanicus



Bombus huntii



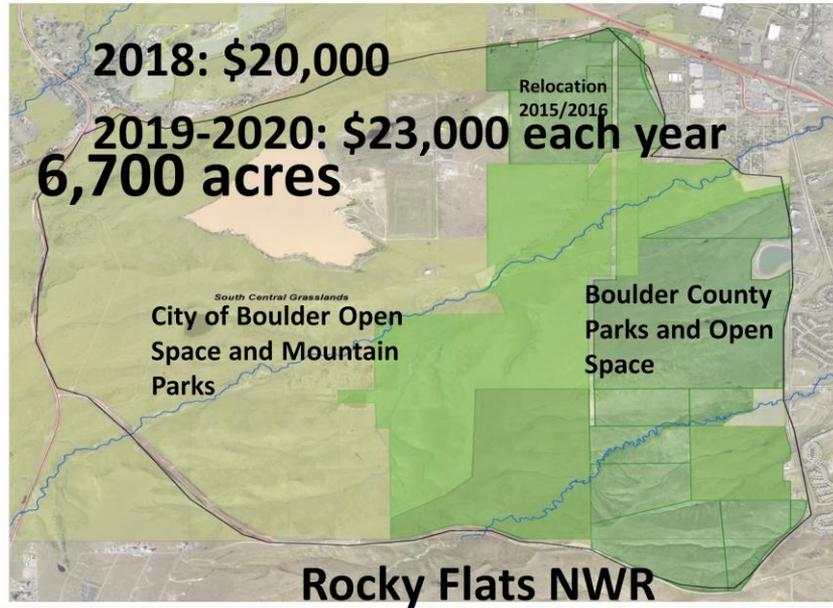
Bombus nevadensis

Volunteer stats: (video)

31 projects in 2017 (starting in January); Includes: seed cleaning, seed collection, weed removal, planting, and willow salvage.

Collected approximately 300 lbs of seed (this is a mix of cleaned and uncleaned seed, so not this number will likely change as we continue to post process).

2018-2020: Wildlife Habitat Restoration Black Footed Ferret Reintroduction



Black Footed Ferret Reintroduction: 2018-2019 CIP. 2020 Vision Goal to reintroduce Black Footed Ferrets by 2020. In order to do this, funds are needed to purchase plague vaccine and flea dust for plague prevention to help increase prairie dog populations that have been negatively affected by plague.

2018: \$20,000

2019-2020: \$23,000 each year

Acres: OSMP + BCPOS with the RFNWR = over 13,000 acres

BCPOS South Central Grasslands HCA = 2,753 acres

Of that, Suitable Habitat for pdogs = 1,224 ac, 44% of the HCA

2016: 350 acres of suitable habitat was occupied by pdogs

On tap:

- 2019 & 2020 PMJM habitat improvements at Loukonen (N of Nelson Rd.—fence portion of Dake ditch) and S. Branch St. Vrain Creek
- 2020-2021 Pollinator habitat improvements on Ag properties