2020 Vegetation Success Monitoring for the

Deming Mill Tailing Impoundment

Deming, Luna County, New Mexico

Prepared for
Geo Southwest, Ltd.
PO Box 353
9751 Hwy 86
Silverton, TX 79257

Prepared by
High Desert Native Plants, LLC
5404 Fleetwood Rd. El Paso, TX 79932
www.highdesertnativeplants.com
HDNP Project Number 2019-029B

May 24, 2021

High Desert
NATIVE PLANTS LLC

5404 Fleetwood Rd. El Paso, TX 79932 | 915-490-8601
www.highdesertnativeplants.com | info@highdesertnativeplants.com

May 24, 2021

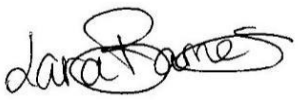
Geo Southwest, Ltd.
PO Box 353, 9751 Hwy 86
Silverton, TX 79257

Attn: Gerald Smith

Re: HDNP Project 2019-029B
2020 Vegetation Success Monitoring - Draft Report
Deming Mill Tailings Impoundment, MMD Permit LU009RE
Deming, Luna County, New Mexico

Dear Mr. Smith:
High Desert Native Plants LLC (High Desert) is pleased to submit this Vegetation Success Monitoring Report for the above Referenced project. This report includes a description of the methods utilized and results obtained during the study as well as recommendations for further actions if necessary. The report was prepared in accordance with specifications outlined by the MMD and requested by the client in order to determine if revegetation was successful in this revegetation success monitoring survey of the subject property. We appreciate the opportunity to provide our services to you on this project. Please contact us at your convenience if you have questions or comments.

Sincerely,



Lara Barnes
Staff Biologist

Reviewed by

Michael D. Gaglio
Biologist/Managing Member

High Desert Native Plants LLC

"Everything with conservation in mind"

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Executive Summary

High Desert Native Plants, LLC (HDNP) was contracted by Geo Southwest Ltd. (Geo SW) to conduct vegetation success monitoring surveys at the Deming Mill Tailing Impoundment located on the outskirts of Deming, Luna County, New Mexico in October 2019. Second year monitoring for the Tailings Site began in November of 2020. The Deming Mill was authorized by the Mining and Minerals Division of the New Mexico Energy, Minerals, and Natural Resources Department under Permit LU009RE. The original permit and subsequent Closeout Plans did not contain detailed revegetation standards and monitoring methods, therefore MMD authorized Geo SW to utilize Permit No. LU008RE and Modification 18-1, issued to Cyprus Pinos Altos Corporation for the Cyprus Pinos Altos Tailings Site, located south adjacent to the Deming Mill Tailings Impoundment, as a reference for guidance on the revegetation standards and monitoring methods for this project. Botanical surveys were conducted at two sites on the Deming Mill Property during the 2020 monitoring: Reference Site, and the Tailings impoundment site. The 2019 surveys included a third site, the Borrow Pit Site. This site was not included in the second year monitoring by request of the client. The Reference Site was authorized by MMD in Permit LU008RE, Modification 18-1 and was the basis for the revegetation success performance standards required by MMD guidance. The permit modification established three relevant performance standards for the project: 1) canopy coverage percentage equal to or greater than 70% of the canopy cover at the Reference Site, 2) shrub density equal to or greater than 60% of the shrub density at the Reference Site, and 3) measures of species diversity and relative abundance. The additional measurement of basal vegetation cover was recorded during the surveys and analysis was attempted on this data, though MMD guidelines do not consider these measurements as success criteria. The measurements obtained from the Tailings Site were individually compared to the Reference Site measurements. Statistical analyses following MMD protocols were run on the data. Canopy cover at the treatment Tailing site exceeded the performance standard of 70% of the mean canopy cover of the Reference Site. Shrub density at the Tailings Site was significantly greater than that of the Reference Site and exceeded the performance standard of 60% of the mean shrub density at the Reference Site. Basal cover which is not one of the success standards, appears to be greater at the Tailings Site, but was not analyzed since the data was not able to be transformed to normal data. The species diversity index was greater at the Reference Site when compared to the Tailings Site. However, the Tailings Site met the success criteria for all three species diversity and relative abundance criteria. The Reference Site only met the success standard for individual cover percentages for the class type non-weedy forbs. The Reference Site did not meet the success criteria for warm-season native grasses or for shrubs. Nevertheless, The results of this second round of monitoring indicates that revegetation at the Tailings Site has been successful even though the prior year's survey did not meet the success criteria. A number of factors could have impacted the 2019 vegetation monitoring in a way that did not allow the site to show that it met the success criteria. Our stance for the 2019 survey was that, although the MMD performance standards were not all fully met during the first year monitoring, revegetation was nonetheless successful at the Tailings Site due to the establishment of several species of perennial grasses, a variety of shrubs, and relative lack of bare ground. The 2020 revegetation monitoring supports this stance by meeting and exceeding all success criteria.

1.0 INTRODUCTION

High Desert Native Plants, LLC (HDNP) was contracted by Geo Southwest Ltd. (Geo SW) to conduct vegetation success monitoring surveys at the Deming Mill Tailing Impoundment and Borrow Pit sites located on the outskirts of Deming, Luna County, New Mexico in October 2019. The details of the 2019 monitoring findings are included in the report dated January 29, 2020. Two consecutive years of monitoring indicating that revegetation was successful is required for bond release. Second year monitoring was conducted in November of 2020 on the Deming Tailing Impoundment Site. This year's survey did not include the Borrow Pit Site by request of the client. The findings of the second year monitoring of the Tailing Site is outlined in this report. This report documents the relevant background information, methods & materials utilized, and results of the surveys. The surveys were performed in accordance with guidance set forth by the Mining and Minerals Division (MMD) of the New Mexico Energy, Minerals and Natural Resources Department (EMNRD).

The Deming Mill was authorized under MMD Mining Operation Permit No. LU009RE (currently in standby status) which was transferred from ASARCO Multi State Custodial Trust to Geo SW on August 5, 2014. On September 18, 2014, Geo SW submitted the "Deming Mill and Mill Tailings Closeout Plan And Financial Assurance Proposal" to MMD. Following a series of correspondence and directives from MMD, an updated "Closeout Plan and Financial Assurance Proposal" (Closeout Plan) dated October 17, 2016 was submitted to MMD. As of October of 2019, when HDNP was contracted to perform the vegetation success monitoring, no additional correspondence was available and it is believed that the permit currently remains in Standby Status.

Permit LU009RE does not contain detailed revegetation standards and monitoring methods, therefore MMD authorized Geo SW to utilize Permit No. LU008RE and Modification 18-1, issued to Cyprus Pinos Altos Corporation on behalf of Freeport McMoRan Copper and Gold, inc. for the Cyprus Pinos Altos Tailings Site (Cyprus Tailings Site), located south adjacent to the Deming Mill Tailings Impoundment, as a reference for guidance on the revegetation standards and monitoring methods for this project (Myers 2019). It is understood that Permit LU008RE will be used as a template for Permit LU009RE with respect to revegetation standards and Post Mining Land Use (PMLU) decisions.

1.1 Site Description

Revegetation Success Monitoring Surveys (the surveys) were conducted at two (2) sites (see Figure 1) associated with the Deming Mill, shown on the Survey Plat dated October 4, 2018 provided by the client. The surveys conducted in 2019 included a third site (Borrow Pit Site). This year's survey did not include the Borrow Pit. Both sites included in the 2020 surveys are located in Sections 20 & 21, T23S R9W, N.M.P.M. and are part of a larger group of properties collectively known as the Deming Mill (the Property) that was owned and operated by ASARCO from approximately 1949 through 2014. In 2014, Geo Southwest Ltd. acquired the property from the ASARCO Multi State Custodial Trust. The Property is located northwest of Deming near the intersection of Arrowhead Dr. NW and Peru Mill Rd (County Road 394).

The treatment site that was surveyed is located within the 99.4-acre Tract 2 and is referred to as the Recovered Tailings Area on the survey plat (See Figure 2). The Tailings Site occupies approximately 55 acres and is a mound of soil that contains tailings from past mill operations as well as impacted soils that were removed from the mill site during mill site remediation activities in the 1990s and 2000s. The Tailings Site was covered with a cap of soil and gravel. The Tailings treatment site was compared to a

Reference Site, an approximately 3.5-acre parcel of land referred to as “Proposed Vegetation Area” on the Survey Plat (see Figure 3). The use of this Reference Site was approved by MMD in Permit LU009RE, Mod 18-1 and was recommended to be used for this project as well. In this report, the sites are called Tailings, and Reference respectively.

The property has been in use since approximately 1949 when the mill was constructed. The property has been owned, leased, and operated by several different companies generally for the purpose of processing zinc, copper, and lead ore. The milling operations impacted the site by wind blown materials from the impoundment. Remediation activities at the Deming Mill began in 1993 and included the removal and transport of impacted soil to the Tailing impoundment, placement of the impacted soil, and overlying with a protective earthen cap that was seeded for revegetation. Remediation occurred again in 2007 due to construction at the site for improvements to the cap and the Tailings impoundment was once again revegetated. The remediation efforts were completed in 2009 when NMED determined that it was successful.

The abandoned Deming Mill facilities are located on the Property west of Peru Road and the Luna County Power Station lies northeast adjacent to the property, past Arrowhead Drive. The Tailings impoundment area is located north of the Mimbres River on the property. Otherwise, the property and surrounding area are generally vacant desert land.

1.2 Climate Conditions

The site is located in the Chihuahuan Desert of the southwest U.S. which is characterized by long hot summers, cold winters, and a monsoon season that generally occurs from June to September (US Department of Commerce & NOAA, 2019). The year of 2020 was much warmer and drier than 2019. The Deming area had approximately 9.20 inches of rain, and an average temperature of 61.7 °F in 2019. By contrast, the average temperature for 2020 was 64.8°F and the average temperature during the growing season months was 78.2°F. Cumulative annual precipitation in 2020 was 4.32 inches (WRCC 2020). The growing season precipitation in 2020 was 1.44 inches as compared to 4.88 inches in 2019. Climate data was obtained from the Deming Airport Weather station located within 5 miles of the site and is displayed in Table 1. Long term climate data is also available from the airport weather station. The long-term climate data consists of a thirty-nine year long span of weather data dating from 1961-1981 and 2001-2020. The long-term climate data mean annual temperature is about 60.9°F, during the growing season the average long-term temperature is 75.6°F. The mean annual precipitation is about 8.77 inches. The 2020 annual temperature and the average temperature during the growing season were higher than the long-term averages. Additionally, the precipitation was much lower in 2020 than the long term annual and growing season averages.

Table 1 - Average Temperature and Precipitation Data from Deming Airport

Year	Annual Temperature (ºF)	Growing Season Temperature (ºF)	Annual Precipitation (in)	Growing Season Precipitation (in)
2019 Average	61.7	76.7	9.20	4.88
2020 Average	64.8	78.2	4.32	1.44
Long-term Average (1961-2020)	60.9	75.6	8.77	5.25

1.3 Habitat Setting

The site is situated in the Chihuahuan desert and the vegetation type is Chihuahuan Desert Scrub. Chihuahuan Desert Scrub is characterized by creosotebush (*Larrea Tridentata)*, and tarbush (*Flourensia cernua*), and other common plants including soaptree yucca (*Yucca elata)*, Lechuguilla (*Agave lechuguilla*), and Ocotillo (*Fouquieria splendens*). Trees such as honey mesquite (*Prosopis glandulosa*) are also common. This plant community category is dominated by drought tolerant shrubs along with perennial grasses and annual forbs (Dick-Peddie, 1993).

1.4 Revegetation Success Criteria

For the purposes of bond release and to meet the Post Mining Land Use (PMLU) standard as a wildlife area as required in Permit LU008RE and Modification 18-1, revegetation success monitoring surveys must be performed to determine if the revegetation efforts were successful. Revegetation success is monitored by performing surveys over the course of 2 years, the first of which can be no sooner than the 11th year following revegetation efforts. The revegetation success monitoring requires measurement of the variables plant canopy cover, shrub density, and plant species diversity on the revegetation sites and comparison of the measurements to a performance standard. The performance standard is based on either baseline data, an established or calculated technical standard, or measurements of the same variable on a Reference Site. The vegetation measurements at the Deming Tailings Site were compared to measurements obtained at the approved Reference Site located south of the revegetation site as depicted in Figure 1. The Reference Site is considered an undisturbed area and is assumed to be a self-sustained ecosystem representative of the pre-disturbance condition of the Tailing site.

For this vegetation survey, the MMD revegetation guidelines for an adjacent site owned by Cyprus Pinos Altos Corp (Cyprus) under permit LU008RE and Modification 18-1 were used since formal revegetation guidelines were not established by the MMD for the Deming Mill Tailings Site. Based on verbal directives from MMD Staff, the terms of this permit modification are to be utilized as the basis for the revegetation success monitoring at the subject property. Permit LU008RE outlines the revegetation standards that would determine if the site is considered a self-sustaining ecosystem as stated by the PMLU wildlife description and the 18-1 modification defines the Reference Site jointly used by both Cyprus and Geo SW.

The revegetation success criteria for this project were outlined in Permit LU008RE and Modification 18-1 and summarized in Table 2. Mean canopy cover at the revegetation site must be equal to or greater than 70% of the mean canopy cover measured at the Reference Site and shrub density on the treatment site must be equal to or greater than 60% of the density measured at the Reference Site. In addition, at least three species of warm-season perennial grasses with a minimum individual percent coverage of 1% must be present at the revegetation site. Two species of perennial shrubs must be present with a 0.5% individual coverage, and finally, two species of non-weedy native forbs must be present at the sites with an individual percent cover of 0.1%.

Table 2 - Revegetation Success Criteria required by MMD Permit LU008RE Mod 18-1

Proportion of Reference Area		Plant Diversity		
		Vegetation Class	Number of Species	Minimum Occurrence
Attribute	**Value**	Perennial Warm Grass	3	1%
Canopy Cover	70% of Standard	Perennial Shrub	2	0.5%
Shrub Density	60% of Standard	Non-weedy Native Forb	2	0.1%

2.0 Field Surveys

Biologist Lara Barnes performed vegetation surveys of the Reference, and Tailings Sites over multiple days between the 11th and the 25th of November 2020. Two systematic random sampling methods to quantify variables measured were selected using MMD guidelines based on the factors being examined and vegetation habit type. The line point intercept method was selected to measure percent cover of the plant canopy, and basal coverage. The belt transect method was selected to quantify shrub density on the survey sites.

Random GPS (Global Positioning System) coordinates were generated using a randomization website (Random Point Generator, 2020) for each site before beginning field work. These GPS coordinates were the starting point for each transect for both methodologies. New GPS points were generated for this year's surveys. A total of forty-eight (48) GPS points were generated across both sites. Thirty (30) at the Tailings Site, and eighteen (18) at the Reference Site. The number of GPS points was determined by sample adequacy calculations. GPS points that were discovered to fall outside of the site boundary when field verified were regenerated.

2.1 Methods

Plant canopy cover was measured utilizing a variation of the line point intercept method (Herrick, 2005). Other variables measured with this method included plant basal cover, bare ground, rock cover, and litter cover (Herrick, 2005). Shrub density was measured using a belt transect method (Herrick, 2005). Species diversity was measured by calculating diversity indices based on the species recorded in the line point intercept surveys. Diversity was also quantified by determining if mean cover percentages exceeded the performance standard for plant classes.

2.1.1 Line Point Intercept Method

The line point intercept method was selected because it is a consistent and repeatable measure to collect data for the variables canopy cover, basal cover, litter cover, rock cover, and bare ground. Line point intercept is a preferred method for measuring vegetation in desert and grassland habitats due to its fine resolution and ability to detect small low-lying grasses and forbs in sparsely populated vegetation communities. The method is easily repeatable and increases precision by limiting surveyor bias that is possible in other ocular estimation methods. The line point intercept method can gather information in the plant canopy and ground level using one sample point, making it an efficient data collection procedure. A variation of this method was utilized to allow meaningful measurements of both canopy cover and basal cover in a time efficient manner.

This variation of the line point intercept method was performed by laying out 50 meter-long (50m) transects, oriented from south to north, beginning at the given random GPS coordinates. Data

collection points began at the 0.5 meter mark on the meter tape from the transect GPS start point and continued at 0.5-meter intervals along the transect. For each transect the observer stands on the east side of the tape, over the tape, and records the vegetation or ground surface present at each 0.5-meter intercept on the immediate west side of the tape. At each 0.5-meter interval, the canopy cover and basal cover was observed and recorded using this method. Fifty-meter transects with 0.5-meter intervals were selected for ease and relative speed of data collection and analysis. Each transect line consisted of 100 interval points that comprised a single sample for statistical analysis. Vegetation, litter, rock, and soil type was recorded at the canopy level and the basal level at each intercept. Foliage encountered above the soil level was considered canopy. Basal cover was recorded when the intercept is located directly on a plant base at soil level (*e.g.* grass crowns or a stem instead of soil or rock). Litter (*i.e.* non-living woody or herbaceous plant material), rock (*i.e.* rock particles >5mm dia. including bedrock), or bare ground (*i.e.* soil) were also measured and recorded. The canopy measurements were analyzed separately from the basal observations. Representative samples of plants that were encountered during the survey that could not be identified in the field were collected and later identified using plant guides and keys. Thirty (30) transects were collected at the Tailings site. Each transect contained 100 individual intercept observations at both the canopy and basal level resulting in 3,000 intercept observations at the canopy level, and 3,000 intercepts at the basal level for a total of 6,000 intercept observations for the Tailings Site. For the Reference Site a total of 3,600 canopy and basal observations (1,800 canopy observations, and 1,800 basal observations) were recorded from 18 transects.

2.1.2 Belt Transect Method

Belt transects were used to measure shrub density measured in terms of shrubs per m^2 and converted to shrubs per acre. The belt transect method focuses on the presence of larger plants such as shrubs and trees and tends to disregard small forbs and grasses. Forty-eight (48) belt transects were counted across both sites. The belt transects were the same survey sites as the line point intercept sites, thirty (30) at the Tailings site, and eighteen (18) at the Reference site. Each belt transect was 50m long and 2m wide for the survey area encompassing $100m^2$. Thirty transects at the Tailings site equates to $3,000m^2$ measured. Eighteen belt transects at the Reference site encompassed $1,800\ m^2$. Each transect began at the randomly generated GPS coordinate and extended 50m north. A measuring tape was used to lay out a center line and a meter long rod was used to visualize a meter on each side of the centerline. Each individual shrub and tree rooted within the belt transect area was identified to species and recorded to determine shrub density and frequency.

2.2 Data Collected

Data collection sheets for both sites and methods are available in (Appendix B).

3.0 Field Survey Findings

3.1 Canopy Cover

3.1.1 Tailings Site

The total percentage of canopy cover at the Tailings Site was 48.9% ± 9.0% (standard deviation [SD]), of which, approximately 31.2% of the total canopy cover was composed of perennial grasses. Sideoats grama (*Bouteloua curtipendula*) was the most common at the site with a relative percent canopy cover of 44.1%, followed by low woollygrass (*Dasyochola pulchella*), and purple threeawn (*Aristida purpurea*). Four species of shrubs were recorded during the point-line point intercept survey. The most common

shrub during the survey was broom dalea (*Psorothamnus scoparius*) with a relative canopy cover of 21.3%. Three other shrubs/trees (broom snakeweed, desert willow, and fourwing saltbush) were recorded during the survey with a combined relative cover of 7.2%. Five non-weedy forb species were present during the survey composing 2.3% of the total canopy coverage at the Tailings Site. One additional unidentified species of forb, and one Class B noxious weed species of forb (African rue) was also recorded during the surveys.

3.1.2 Reference Site

The percentage of canopy cover at the Reference Site was 48.8% ± 6.7%. The Reference Site was dominated by forbs with a relative canopy coverage of 43.1%. The dominant forb present at the Reference Site was Coulter's spiderling (*Boerhavia coulteri*) with 23.1% followed by Tansymustard (*Descurainia sp.)* at 17.7% relative cover. Three unidentified forbs were recorded during the surveys with a relative coverage of 10.5%. Four shrubs consisting of soaptree yucca (*Yucca elata*), longleaf jointfir (*Ephedra trifurca*), Broom snakeweed (*Gutierrezia sarothrae), and Broom dalea (Psorothamnus scoparius)* were recorded for the Reference Site. Broom Dalea was the most abundant shrub during the line point intercept survey with a relative canopy coverage of 11.1%. Only one species of perennial warm season grass was recorded for the site, low woollygrass (*Dasyochola pulchella*) only at a total cover percentage of 0.17%. However the annual grass Needle grama (*Bouteloua aristidoides)* had a relative coverage of 13.4%.

Table 3 - Canopy Cover Total Percentages by Species for Sites at Deming Mill Property for 2020 Vegetation Monitoring

Scientific Name	Common Name	Duration	Native Status	Code	Tailings Site	Reference Site
Grasses						
Dasyochloa pulchella	Low woollygrass	P	N	DAPU7	6.30	0.17
Aristida purpurea	Purple threeawn	P	N	ARPU9	3.17	--
Bouteloua aristidoides	Needle grama	A	N	BOAR	0.77	6.56
Bouteloua barbata	Six-weeks grama	A	N	BOBA2	--	0.06
Bothriochloa laguroides ssp. torreyana	Silver beardgrass	P	N	BOLAT	0.10	--
Aristida adscensionis	Sixweeks threeawn	A	N	ARAD	1.87	--
Muhlenbergia porteri	Bush muhly	P	N	MUPO2	0.03	--
Bouteloua curtipendula	Sideoats grama	P	N	BOCU	21.57	--
Forbs						
Chamaesyce albomarginata	Rattlesnake weed	P	N	CHAL11	0.13	0.06
Cryptantha crassisepala	Thicksepal cyptantha	A	N	CRCR3	--	0.50
Tidestromia lanuginosa	Woolly tidestromia	A	N	TILA2	--	2.00
Descurainia sp.	Tansymustard	--	N/I	DESCU	--	8.61
Pectis sp.	Chinchweed	--	N	PECTI	--	0.56
Peganum harmala	African rue	P	I	PEHA	0.07	--
Dimorphocarpa wislizeni	Spectaclepod	A	N	DIWI2	--	0.22
Baileya multiradiata	Desert marigold	A	N	BAMU	0.30	2.39

Amaranthus acanthochiton	Green stripe amaranth	A	N	AMAC	--	3.56
Boerhavia coulteri	Coulter's spiderling	A	N	BOCO2	--	11.28
Chamaesyce micromera	Sonoran sandmat	A	N	CHMI7	--	0.33
Salsola tragus	Prickly Russian thistle	A	I	SATR12	--	1.17
Solanum elaeagnifolium	Silverleaf nightshade	P	N	SOEL	0.07	--
Sphaeralcea fendleri	Fendler's globemallow	P	N	SPFE	0.47	--
Chamaesyce prostrata	Spurge	A	N	CHPR6	0.17	0.11
Annual Forb 2	--	--	--	AF#2	0.03	--
Annual Forb 7	--	--	--	AF#7	--	3.56
Annual Forb 8	--	--	--	AF#8	--	0.11
Annual Forb 11	--	--	--	AF#11	--	1.44
Shrubs						
Gutierrezia sarothrae	Broom snakeweed	P	N	GUSA2	2.00	0.17
Psorothamnus scoparius	Broom dalea	P	N	PSSC6	10.40	5.39
Chilopsis linearis	Desert Willow	P	N	CHLI2	1.43	--
Atriplex canescens	Fourwing saltbush	P	N	ATCA2	0.07	--
Yucca elata	Soaptree yucca	P	N	YUEL	--	0.11
Ephedra trifurca	Longleaf jointfir	P	N	EPTR	--	0.44

3.2 Basal Cover

3.2.1 Tailing Impoundment basal cover

The Tailings mean basal cover was 13.3% ± 4.9%. The relative basal cover consists primarily of three perennial grasses, 50.0% of which are sideoats grama and 21.7% of which are low woollygrass. Purple threeawn, had a relative basal cover of 6.2%.

3.2.2 Reference basal cover

The basal mean percentage cover is 12.3% ± 3.4% for the Reference Site. The plant species with the highest basal coverage for the site was Needle grama (*Bouteloua aristidoides)* an annual grass with a relative cover of 17.1%. The second most species with the highest basal occurrence during the line intercept for the Reference area was Coulter's spiderling, a native forb at 13.5%. An additional 11 species of forbs, and three unidentified forbs were recorded as having basal coverage at the site. Four shrubs having a combined basal cover of 7.9% were recorded during the survey, These consisted of broom snakeweed, broom dalea, soaptree yucca, and longleaf jointfir.

Table 4 - Basal Cover Percentages by Species for Sites at Deming Mill Property for 2020 Vegetation Monitoring

Scientific Name	Common Name	Duration	Native Status	Code	Tailings Site	Reference Site
Grasses						
Dasyochloa pulchella	Low woollygrass	P	N	DAPU7	2.89	0.06
Aristida purpurea	Purple threeawn	P	N	ARPU9	0.83	--
Bouteloua aristidoides	Needle grama	A	N	BOAR	0.39	2.11
Bouteloua barbata	Six-weeks grama	A	N	BOBA2	--	--

Bothriochloa laguroides ssp. torreyana	Silver beardgrass	P	N	BOLAT	0.28	--
Aristida adscensionis	Sixweeks threeawn	A	N	ARAD	0.61	--
Muhlenbergia porteri	Bush muhly	P	N	MUPO2	0.11	--
Bouteloua curtipendula	Sideoats grama	P	N	BOCU	6.67	--
Forbs						
Chamaesyce albomarginata	Rattlesnake weed	P	N	CHAL11	--	--
Cryptantha crassisepala	Thicksepal cyptantha	A	N	CRCR3	--	0.11
Tidestromia lanuginosa	Woolly tidestromia	A	N	TILA2	--	0.78
Descurainia sp.	Tansymustard	--	N/I	DESCU	--	1.50
Pectis sp.	Chinchweed	--	N	PECTI	--	0.28
Peganum harmala	African rue	P	I	PEHA	--	--
Dimorphocarpa wislizeni	Spectaclepod	A	N	DIWI2	--	0.06
Baileya multiradiata	Desert marigold	A	N	BAMU	0.11	0.56
Amaranthus acanthochiton	Green stripe amaranth	A	N	AMAC	--	1.39
Boerhavia coulteri	Coulter's spiderling	A	N	BOCO2	--	1.67
Chamaesyce micromera	Sonoran sandmat	A	N	CHMI7	--	0.11
Salsola tragus	Prickly Russian thistle	A	I	SATR12	--	0.39
Solanum elaeagnifolium	Silverleaf nightshade	P	N	SOEL	--	--
Sphaeralcea fendleri	Fendler's globemallow	P	N	SPFE	0.28	--
Chamaesyce prostrata	Spurge	A	N	CHPR6	0.11	0.06
Annual Forb 2	--	--	--	AF#2	--	--
Annual Forb 7	--	--	--	AF#7	--	1.44
Annual Forb 8	--	--	--	AF#8	--	0.06
Annual Forb 11	--	--	--	AF#11	--	0.61
Shrubs						
Gutierrezia sarothrae	Broom snakeweed	P	N	GUSA2	0.44	0.06
Psorothamnus scoparius	Broom dalea	P	N	PSSC6	0.56	0.94
Chilopsis linearis	Desert Willow	P	N	CHLI2	0.06	--
Atriplex canescens	Fourwing saltbush	P	N	ATCA2	--	--
Yucca elata	Soaptree yucca	P	N	YUEL	--	0.06
Ephedra trifurca	Longleaf jointfir	P	N	EPTR	--	0.11

3.3 Shrub Density

3.3.1 Tailing site

The mean number of shrubs/acre is 1055 ± 824 for the Tailings site. Five shrub species were recorded during the belt transects at the Tailings Site. Broom snakeweed was the most prevalent shrub during the transects, as it was observed 440 times at the Tailings Site. The next most common shrub present during the transects for the Tailings Site was broom dalea which was recorded 324 times.

3.3.2 Reference site

For the Reference Site, the shrub density mean was 342 ± 206 shrubs/acre. Five shrub species were observed at the Reference Site. The most prevalent species at the Reference Site was Broom dalea at 108 observations. Other species of shrubs observed on the site were *Ephedra trifurca*, *Gutierrezia sarothrae, Yucca elata,* and *Artemisia filifolia.*

Table 5 - Shrub Density by Species as Shrubs per Acre for Sites at Deming Mill Property for 2020 Vegetation Monitoring

Scientific Name	Common Name	Native Status	Code	Tailing Impoundment Individual Shrubs	Reference Area Individual Shrubs	Tailing Impoundment Density (Stems/Acre)	Reference Area Density (Stems/Acre)
Artemisia filifolia	Sand sagebrush	N	ARFI2	--	1	--	40
Atriplex canescens	Four-wing saltbush	N	ATCA2	2	--	81	--
Chilopsis linearis	Desert willow	N	CHLI2	14	--	567	--
Ephedra trifurca	Longleaf jointfir	N	EPTR	--	27	--	1093
Gutierrezia sarothrae	Broom snakeweed	N	GUSA2	440	10	17806	405
Prosopis glandulosa	Honey mesquite	N	PRGL2	--	--	81	--
Psorothamnus scoparius	Broom dalea	N	PSSC6	324	108	13112	4371
Yucca elata	Soaptree yucca	N	YUEL	--	6	--	243

3.4 Species Diversity

The Simpson's Diversity Index (C) was computed for the revegetation and Reference Sites. This formula was outlined in the vegetation monitoring standards provided by the MMD.

The Simpson's Index value C decreases as diversity increases. This value is usually reported as its complement 1-C. In this report the original Simpsons Index value C and the complement 1-C is reported. The complement to the Simpson's Index 1-C rises as diversity and evenness rises (Simpson 1949, Magurran 2004).

3.4.1 Tailing Impoundment Site Diversity

At the Tailings Site, 19 plant species were present during both 2019 and 2020 surveys. Diversity calculations were performed on the line intercept data. The Simpson's index for the Tailings site was C=0.266, and the complement 1-C=0.734 which indicated that the Tailings Site had a lower species diversity than the Reference Site. The Tailings Site met the success standard requirements for individual cover percentages for all three vegetation classes. Three species of perennial warm season grasses were recorded during the line point survey that met the 1% coverage requirement. Three

species of perennial shrubs were recorded during the line point intercept survey and each of these species exceeded the 0.5% coverage requirement. Four species of non-weedy native forbs exceeded the success criteria individual canopy cover percentages of 0.10%.

African rue (*Peganum harmala)* was observed during the 2020 survey. African rue is classified by the New Mexico Department of Agriculture (NMDA) as a Class B noxious weed. According to the NMDA Noxious Weed website: "*The Noxious Weeds Management Act directs NMDA to develop a noxious weed list for the state, identify methods of control, and educate the public about noxious weeds. NMDA coordinates weed management among local, state, and federal land managers, as well as private landowners."* Class B species are limited to portions of the state, *i.e.* the plants are not found statewide. In areas with severe infestations, management should be designed to contain the infestation and stop any further spread (NMDA 2020). Private landowners can work with the NMDA to develop weed management plans if they choose to do so.

3.4.2 Reference Site Diversity

Twenty-three plant species were recorded at the Reference Site during the surveys. Twenty-two (22) were recorded during the line point intercept transects and one additional species was observed during the belt transects that was not in the line point intercept. The C index for the Reference Site was calculated at C=0.118, with the complement 1-C=0.822. The Simpson Diversity Index indicated that the Reference Site was more diverse than the Tailings Site. The Reference Site did not exceed the vegetation success standard for individual cover percentages for the class type warm perennial grasses which requires that at least three species be present with an individual canopy cover of 1%. One species of perennial grasses, low woollygrass, was observed on the Reference Site and that species did not exceed the 1% cover criteria. The Reference Site also did not exceed the success standard for the class type for perennial shrubs. Only one species, broom dalea, exceeded the individual cover percentage of 0.50%, at 5.39% cover. The Reference Site is supposed to be an undisturbed site that is used as a comparative site to the revegetated sites. The Reference Site did exceed the revegetation success criteria provided in the MMD guidance for having greater than two species of native non-weedy forbs each at an individual cover percentage greater than 0.1%.

4.0 Statistical Analysis

4.1 Methods

4.1.1 Data Analysis

Analysis of the Deming Mill monitoring data was performed according to the methods specified in New Mexico Energy, Minerals and Natural Resources Department Mining and Minerals Division 19.8 NMAC Attachment 1, Coal Mine Reclamation Program Vegetation Standards (MMD 1999). All statistical analyses were completed in Excel (Microsoft 2016).

4.1.2 Sample Adequacy

The Cochran formula (1977) was applied to percent canopy cover data collected in 2019 at the Deming Mill Tailing impoundment site to determine *n*, an estimate of the number of transects to be collected in 2020. This yielded an initial estimate of 32 transects for the Tailings Site and 18 transects for the Reference Site. 30 transects for the Tailings Site and 18 transects for the Reference Site were measured, and Cochran's *n* was recalculated using the 2020 percent canopy cover data.

4.1.3 Tests of Normality

Because the statistical procedures used to analyze the Deming Mill monitoring data are based on the assumption that the data follow a normal distribution, parameter estimates were visually inspected and the Shapiro-Wilk Expanded Test (1965) was performed to assess normality of canopy cover, basal cover, and shrub density for each of the sites separately.

4.1.4 Hypothesis Tests

In order to evaluate the 2020 Deming Mill monitoring data against the revegetation success criteria required by MMD Permit LU008RE Mod 18-1 (Table 2), the one-sample, one-sided Student's *t*-test (Neter et al. 1985) was performed. The test compared whether canopy cover at the Tailings Site was equal to or greater than 70% of the canopy cover at the Reference Site and whether log-transformed shrub density at the Tailings Site was equal to or greater than the log of 60% of the shrub density at the Tailings Site.

Formulae and assumptions are provided in Appendix C.

5.0 Statistical Findings

The summary statistics for vegetation success monitoring are presented in Table 4 below. Data analysis results are presented in the following section and in Appendix C.

Table 4 - 2020 Vegetation Monitoring Summary Statistics

Measurement Variable		
Parameter	**Tailings**	**Reference Area**
Canopy Cover %		
Mean	48.9	48.8
Standard Deviation	9.0	6.7
Number of samples	30	18
Standard Met	YES	--
Basal Cover %		
Mean	13.3	12.3
Standard Deviation	4.9	3.4
Number of samples	30	18
Standard Met	Not applicable	--
Shrub Density (Shrubs/Acre)		
Mean Shrubs/Acre	1055	342
Standard Deviation	824	206
Number of samples	30	18
Standard Met	YES	--

5.1 Data Analysis Results

5.1.1 Sample Adequacy

Enough transects were collected to achieve 90% confidence that the sample means for percent canopy cover, percent basal cover, and shrub density for both the Tailings Site and the Reference Site lie within 10% of the true population means (Appendix C, Table C-1).

5.1.2 Tests of Normality

The assessment indicated that percent canopy cover was normally distributed for both the Tailings Site and the Reference Site. Shrubs per acre was normally distributed for both sites after a log-transformation was applied; however, the distribution for percent basal cover could not be improved through numerical transformation (Appendix C, Table C-2).

5.1.3 Hypothesis Tests

Table C-3 in Appendix C indicates that canopy cover and shrub density at Tailings Site are significantly greater than 70% of the canopy cover and 60% of shrub density at the Reference Site ($t_{calculated} > t_{critical}$, $d.f.$ = 29, p = 0.1). Therefore, the MMD Permit LU008RE Mod 18-1 standard is met in both cases.

6.0 Summary and Discussion

The revegetation success monitoring requires measurement of the variables plant canopy cover, shrub density, and plant species diversity on the revegetation site and compares the measurements to a performance standard under permit LU008RE and Modification 18-1. The revegetation success criteria outlined in Permit LU008RE and Modification 18-1 states that mean canopy cover at the revegetation site must be equal to or greater than 70% of the mean canopy cover measured at the Reference Site and shrub density on the treatment site must be equal to or greater than 60% of the density measured at the Reference Site. Additionally, three species of warm-season perennial grasses with a minimum individual percent coverage of 1%, two species of perennial shrubs must be present with a 0.5% individual coverage, and finally, two species of non-weedy native forbs must be present at the sites with an individual percent cover of 0.1%. The results indicate that all of these criteria have been met for the Tailings Site during the 2020 second year monitoring.

The canopy cover at the Tailings Site was significantly greater than the cover requirement outlined in the revegetation success criteria of 70% of the Reference Site. Mean total canopy cover at the Tailings Site was 48.9% ± 9.0%, in comparison to the Reference Area cover 48.8% ± 6.7% The treatment site had a relative perennial canopy cover of 93.5% (45.73% total canopy cover) compared to the relative perennial plant cover on the Reference area 13.0% (6.34% total canopy cover). The canopy coverage at the Tailings Site consisted primarily of perennial grasses at a 63.7% relative canopy coverage. The surveys at the Reference Site revealed a species composition of primarily forbs, shrubs, and annual grasses. Only one species of perennial grass was observed on the Reference Site (low woolygrass 0.3% relative cover). By contrast the Tailings Site had a diverse array of grasses, as a result of seeding efforts, which overtime will prove to be more stable for the proposed PMLU for wildlife.

Shrub density at the Tailings Site was also quantified and was found to meet the revegetation success criteria and to have a significantly higher shrub density than the Reference Site and exceeded the 60% performance standard. Mean shrub density on the Deming Tailing Impoundment was estimated at 1055 ± 824, about three to four times the Reference Area shrub density of 342 ± 206 shrubs/acre. The

species composition partly explains this dramatic difference. Broom snakeweed, which was by far the most prevalent shrub in the Tailings Site, is a native perennial shrub that is often found growing in colonies that quickly spread during the early successional stages of a disturbed site with poor soils, such as that of the Tailings Site. By contrast, the abundance of broom snakeweed was dramatically lower at the Reference Site, which is representative of later-succession, shrub-invasion vegetation type found at the Reference Site.

Diversity amongst the sites was also compared. The total number of species observed at each site during the surveys were 19 species at the Tailings Site, and 23 at the Reference Site. The Simpson's diversity index was calculated using the line point intercept data, it indicated that the Reference Site had higher diversity than the Tailings Site. The Simpson's diversity index is a measure of diversity which takes into account the number of species present, as well as the relative abundance of each species. The Reference Site is likely to have higher diversity due to the number of annual forbs present at the site. However, the vegetation on the Tailing impoundment meets the diversity requirements for all of the vegetation class types outlined in the success criteria. In comparison, the Reference Site only meets the vegetation class cover requirements for non-weedy native forbs. Warm-season perennial grass and shrub class requirements were not met.

Results from the 2020 vegetation survey of the Deming Tailing Impoundment indicate that revegetation of the site was successful. The Tailings site met all of the revegetation success standards for total canopy cover, shrub density, and diversity. This year's findings support High Desert's stance proposed in the 2019 report that the site has been successfully revegetated despite the 2019 data not meeting the defined success criteria. Many different factors could have contributed to the findings of the prior year's survey not meeting the success criteria, but this year the site exceeded all criteria outlined in the permit. Revegetation appears to have successfully made the site a self-sustaining ecosystem as stated by the PMLU wildlife description.

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APPENDIX A - MAPS

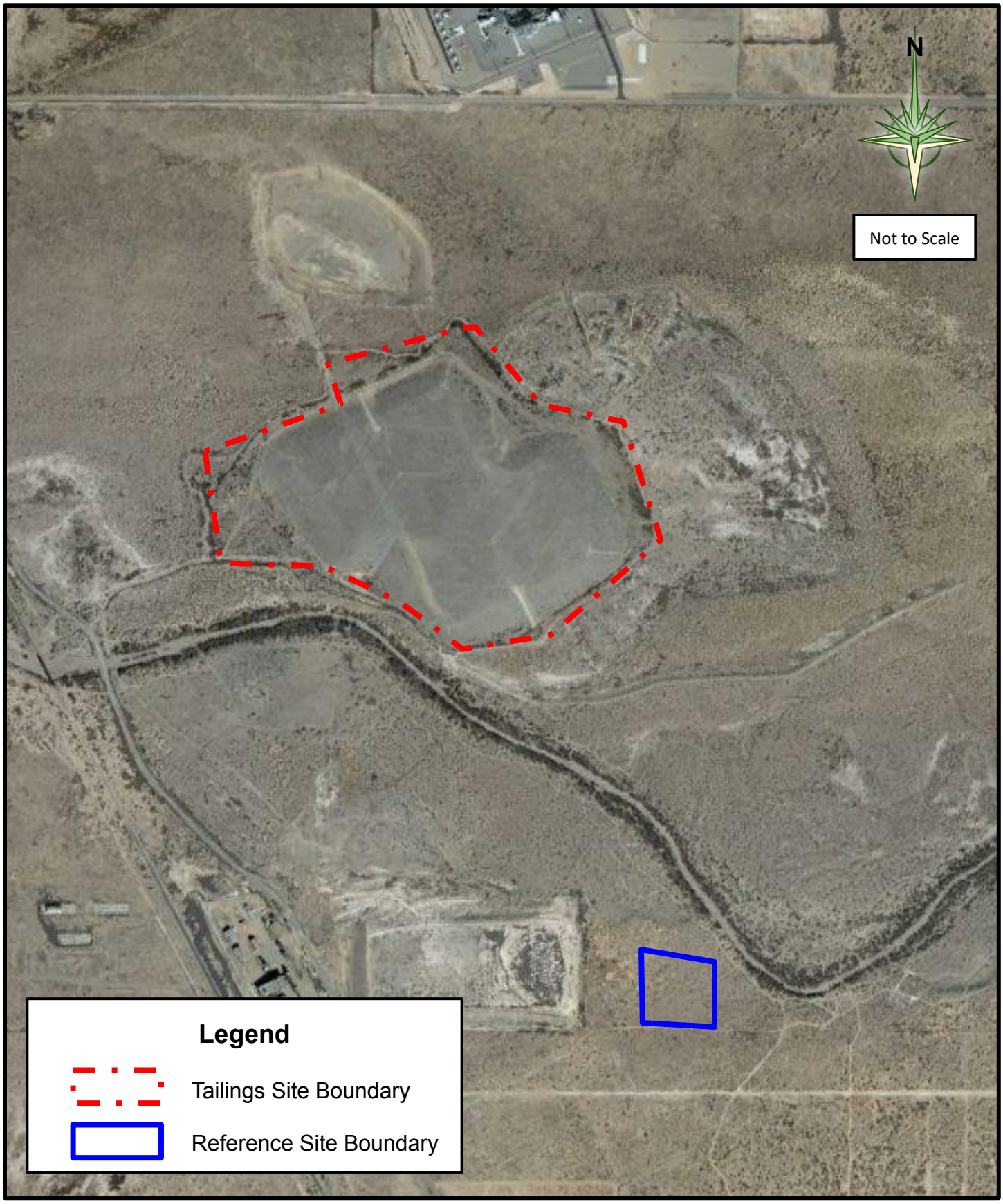

FIGURE 1

Aerial Photograph
© Google Earth 2011

DEMING MILL TAILING
VEGETATION SUCCESS MONITORING - 2020
SITE LOCATIONS
Deming, New Mexico

High Desert
NATIVE PLANTS LLC
5404 FLEETWOOD RD EL PASO, TX 79932
HIGHDESERTNATIVEPLANTS.COM

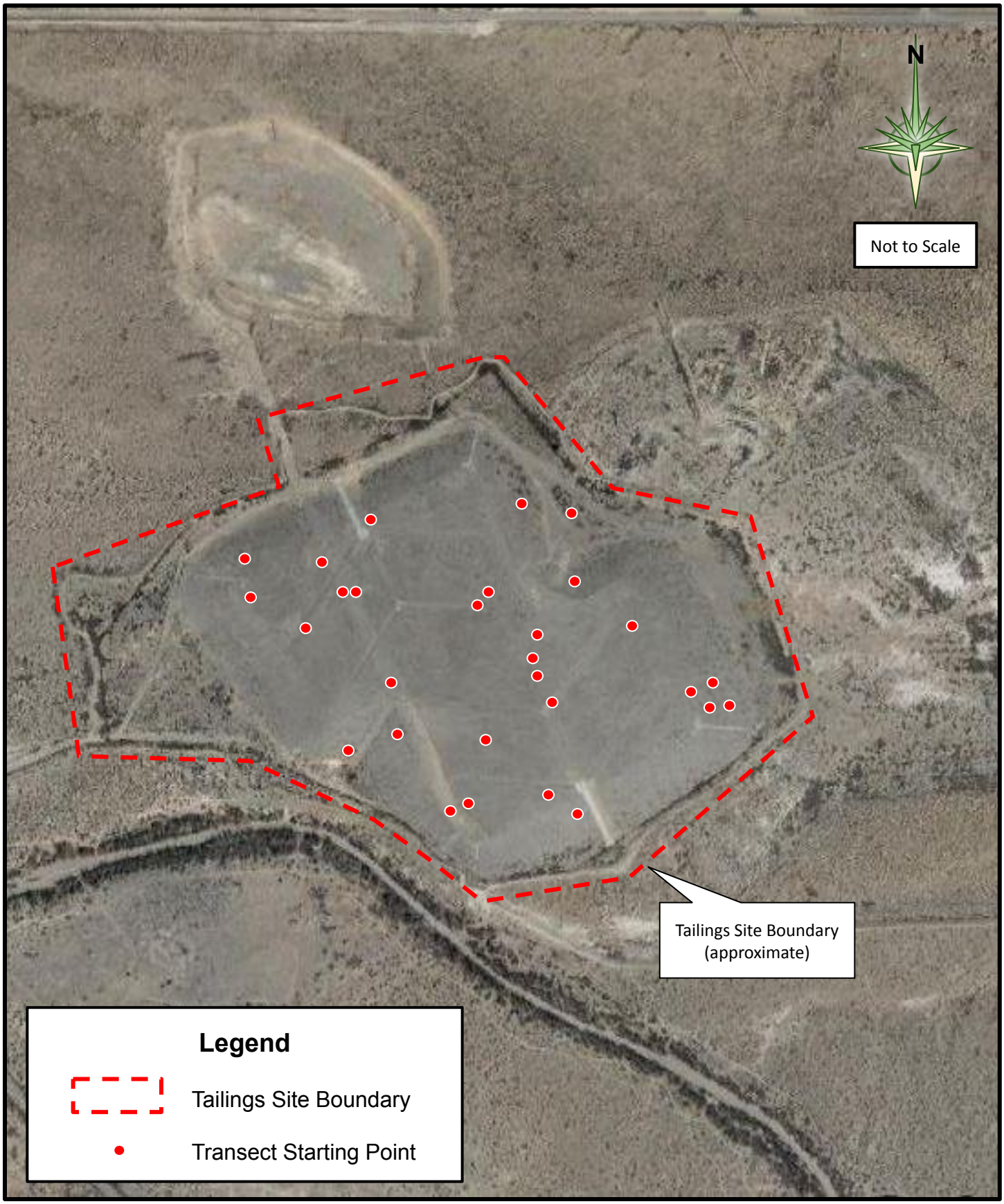

FIGURE 2

Aerial Photograph
© Google Earth 2011

DEMING MILL TAILING
VEGETATION SUCCESS MONITORING - 2020
TAILINGS SITE TRANSECT LOCATIONS
Deming, New Mexico

High Desert
NATIVE PLANTS LLC
5404 FLEETWOOD RD EL PASO, TX 79932
HIGHDESERTNATIVEPLANTS.COM

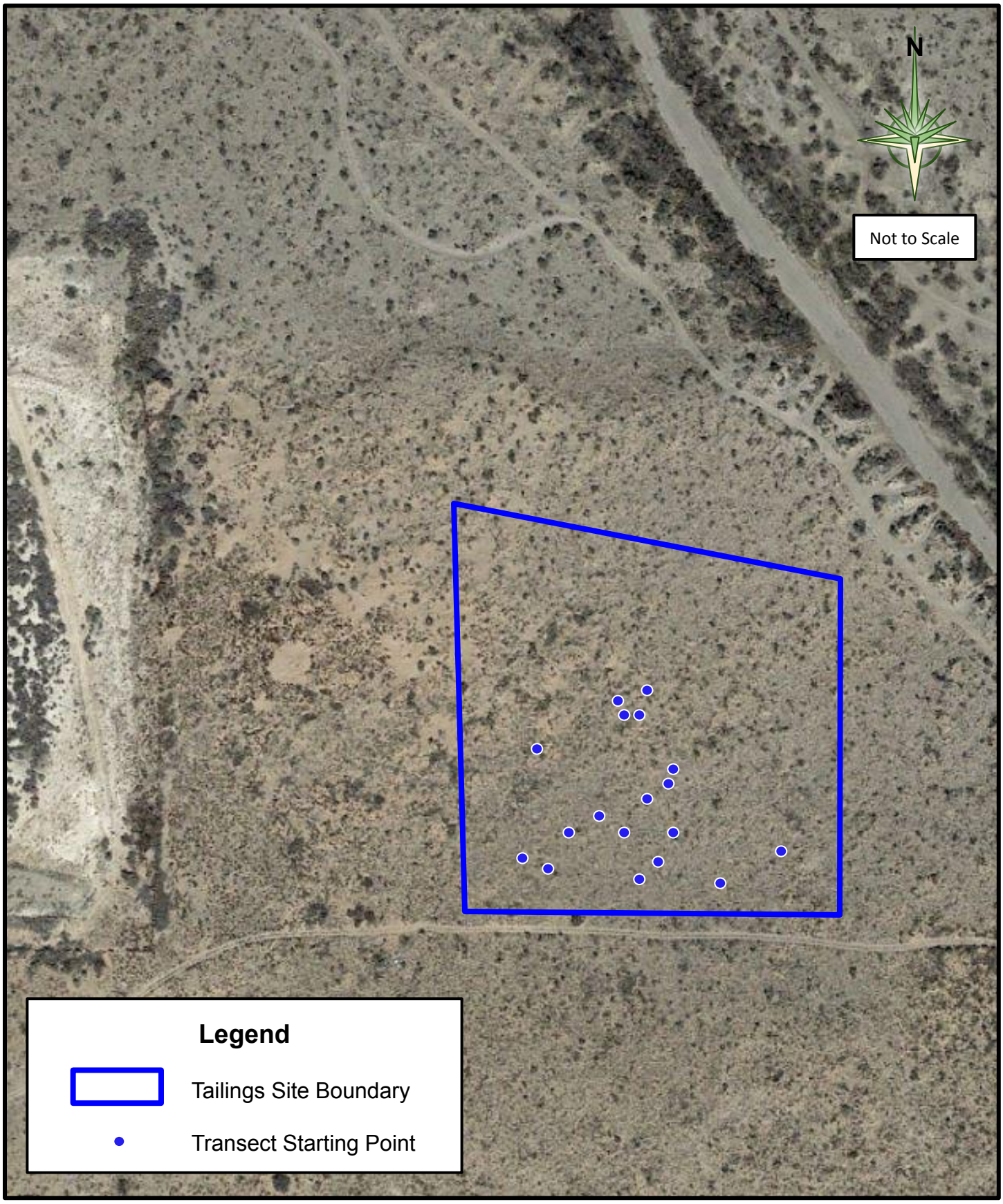

FIGURE 3

Aerial Photograph
© Google Earth 2011

DEMING MILL TAILING
VEGETATION SUCCESS MONITORING - 2020
REFERENCE SITE TRANSECT LOCATIONS
Deming, New Mexico

High Desert
NATIVE PLANTS LLC
5404 FLEETWOOD RD EL PASO, TX 79932
HIGHDESERTNATIVEPLANTS.COM

APPENDIX B - DATA SHEETS

Tailings Site

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/11/20

Location Tailings Site

Transect T2

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	GUSA2	GUSA2
2	Bare Ground	Bare Ground	27	Litter	Woody Litter	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Woody Litter	Woody Litter	53	GUSA2	GUSA2	78	Bare Ground	Bare Ground
4	Litter	GUSA2	29	Woody Litter	Woody Litter	54	Litter	GUSA2	79	Litter	GUSA2
5	GUSA2	GUSA2	30	Litter	Litter	55	Litter	GUSA2	80	Litter	GUSA2
6	Litter	PSSC6	31	Litter	GUSA2	56	Litter	Litter	81	Bare Ground	Bare Ground
7	Bare Ground	PSSC6	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	Bare Ground	33	Litter	GUSA2	58	Bare Ground	Bare Ground	83	Litter	Litter
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	Bare Ground	84	MUPO2	GUSA2
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	GUSA2	GUSA2	85	MUPO2	GUSA2
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	BOAR	BOAR	86	Bare Ground	MUPO2
12	Bare Ground	Bare Ground	37	Litter	GUSA2	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Litter	GUSA2	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Litter	Litter	39	Litter	Litter	64	Bare Ground	Bare Ground	89	BOAR	BOAR
15	Litter	Litter	40	Litter	GUSA2	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	Litter	GUSA2	41	Bare Ground	Bare Ground	66	BOAR	BOAR	91	Bare Ground	Bare Ground
17	Litter	Litter	42	Litter	Litter	67	Bare Ground	GUSA2	92	BOAR	BOAR
18	Bare Ground	Bare Ground	43	Litter	Litter	68	Bare Ground	GUSA2	93	Bare Ground	Bare Ground
19	Litter	GUSA2	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Litter	GUSA2	45	Bare Ground	Bare Ground	70	Woody Litter	Woody Litter	95	Bare Ground	GUSA2
21	Litter	GUSA2	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	BOAR	BOAR
22	Bare Ground	Bare Ground	47	Litter	GUSA2	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Litter	Litter	48	Litter	GUSA2	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	GUSA2	49	Bare Ground	Bare Ground	74	Bare Ground	Bare Ground	99	BOAR	BOAR
25	Bare Ground	Bare Ground	50	Litter	GUSA2	75	BOAR	BOAR	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	69
PSSC6	2
ATCA2	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/25/20

Location Tailings Site

Transect T3

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	ARAD	26	Bare Ground	Bare Ground	51	Bare Ground	PSSC6	76	Bare Ground	BOCU
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	ARPU9	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	DAPU7	DAPU7	29	Bare Ground	Bare Ground	54	Litter	PSSC6	79	BOCU	BOCU
5	Bare Ground	Bare Ground	30	Bare Ground	BOCU	55	Litter	PSSC6	80	Bare Ground	BOCU
6	Bare Ground	Bare Ground	31	Bare Ground	BOCU	56	CHPN6	PSSC6	81	BOCU	BOCU
7	Bare Ground	DAPU7	32	Bare Ground	Bare Ground	57	Rock	BOCU	82	Bare Ground	Bare Ground
8	Bare Ground	DAPU7	33	BOCU	BOCU	58	Rock	Rock	83	Bare Ground	BOCU
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Rock	ARAD	84	Bare Ground	BOCU
10	BOCU	BOCU	35	Litter	BOCU	60	Bare Ground	Bare Ground	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Bare Ground	BOCU	37	Bare Ground	BOCU	62	Bare Ground	Bare Ground	87	Bare Ground	BOCU
13	Bare Ground	Woody Litter	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Bare Ground	BOCU	64	Bare Ground	Bare Ground	89	Bare Ground	BOCU
15	Bare Ground	Bare Ground	40	Bare Ground	BOCU	65	Bare Ground	BOCU	90	Bare Ground	Bare Ground
16	Bare Ground	Woody Litter	41	GUSA2	GUSA2	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Litter	PSSC6	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	BOCU	PSSC6	43	Bare Ground	Bare Ground	68	Bare Ground	DAPU7	93	Bare Ground	BOCU
19	BOCU	PSSC6	44	ARPU9	ARPU9	69	Bare Ground	Bare Ground	94	Bare Ground	ARPU9
20	BOCU	PSSC6	45	Bare Ground	Bare Ground	70	Rock	Rock	95	Bare Ground	Bare Ground
21	Litter	PSSC6	46	Bare Ground	Bare Ground	71	Bare Ground	ARPU9	96	Bare Ground	BOCU
22	BOCU	PSSC6	47	Bare Ground	Bare Ground	72	Bare Ground	ARPU9	97	Bare Ground	Bare Ground
23	Bare Ground	BOCU	48	Litter	PSSC6	73	Rock	Rock	98	Bare Ground	ARPU9
24	Bare Ground	BOCU	49	BOCU	PSSC6	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Litter	PSSC6	75	BOCU	BOCU	100	Bare Ground	BOCU

Shrub Density

Species	Count
PSSC6	5
GUSA2	13

Project 2019-029B Deming Mill

Sampler Lara Date 11/11/20

Location Tailings Site

Transect T4

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	Litter	26	Bare Ground	BOCU	51	BOCU	BOCU	76	BOCU	BOCU
2	Litter	Woody Litter	27	Bare Ground	BOCU	52	Bare Ground	BOCU	77	Bare Ground	Bare Ground
3	Litter	Woody Litter	28	BOCU	BOCU	53	Litter	Litter	78	ARAD	ARAD
4	Litter	Litter	29	Litter	PSSC6	54	BOCU	BOCU	79	Bare Ground	BOCU
5	Litter	PSSC6	30	Litter	PSSC6	55	Bare Ground	BOCU	80	Bare Ground	GUSA2
6	Litter	PSSC6	31	Litter	PSSC6	56	Rock	BOCU	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	BOCU	57	Bare Ground	BOCU	82	Bare Ground	Bare Ground
8	Bare Ground	BOCU	33	BOCU	BOCU	58	BOCU	BOCU	83	DAPU7	DAPU7
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	BOCU	ARAD	84	DAPU7	DAPU7
10	Bare Ground	Bare Ground	35	Bare Ground	BOCU	60	Bare Ground	BOCU	85	Bare Ground	Bare Ground
11	Bare Ground	BOCU	36	Bare Ground	Bare Ground	61	ARAD	ARAD	86	Bare Ground	Bare Ground
12	BOCU	BOCU	37	Bare Ground	BOCU	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	BOCU	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Litter	PSSC6	39	Bare Ground	Bare Ground	64	Bare Ground	ARAD	89	Bare Ground	Bare Ground
15	Bare Ground	BOCU	40	BOCU	BOCU	65	Bare Ground	BOCU	90	Bare Ground	Bare Ground
16	Bare Ground	Bare Ground	41	Bare Ground	BOCU	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Litter	PSSC6	42	BOCU	BOCU	67	Bare Ground	Bare Ground	92	DAPU7	DAPU7
18	BOCU	PSSC6	43	Bare Ground	BOCU	68	Bare Ground	Bare Ground	93	DAPU7	DAPU7
19	Litter	PSSC6	44	Bare Ground	BOCU	69	Bare Ground	Bare Ground	94	Bare Ground	ARAD
20	Bare Ground	Bare Ground	45	Litter	Litter	70	Rock	Rock	95	Bare Ground	Bare Ground
21	Rock	Rock	46	Bare Ground	Bare Ground	71	Bare Ground	ARAD	96	Bare Ground	Bare Ground
22	BOCU	BOCU	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Rock	Rock
23	Bare Ground	Bare Ground	48	Bare Ground	BOCU	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	BOCU	BOCU	49	Bare Ground	Litter	74	BOCU	BOCU	99	DAPU7	DAPU7
25	Bare Ground	Bare Ground	50	Bare Ground	Bare Ground	75	BOCU	BOCU	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	11
PSSC6	25
CHLI2	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/11/20

Location Tailings Site

Transect T5

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Litter	PSSC6	51	DAPU7	DAPU7	76	DAPU7	DAPU7
2	Bare Ground	Bare Ground	27	Litter	PSSC6	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	DAPU7	DAPU7	28	PSSC6	PSSC6	53	Bare Ground	ARAD	78	Bare Ground	PSSC6
4	Bare Ground	Bare Ground	29	Litter	PSSC6	54	Bare Ground	Bare Ground	79	PSSC6	PSSC6
5	Bare Ground	BOCU	30	Litter	PSSC6	55	Bare Ground	Bare Ground	80	Bare Ground	PSSC6
6	Bare Ground	Bare Ground	31	Litter	PSSC6	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	Bare Ground	33	Litter	CHLI2	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	CHLI2	CHLI2	59	Bare Ground	Bare Ground	84	Bare Ground	Bare Ground
10	Rock	Rock	35	Litter	CHLI2	60	Bare Ground	Bare Ground	85	DAPU7	DAPU7
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Rock	Rock	37	BOCU	BOCU	62	Bare Ground	PSSC6	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Litter	PSSC6	63	Litter	PSSC6	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Litter	PSSC6	64	Litter	PSSC6	89	Bare Ground	Bare Ground
15	Bare Ground	CHLI2	40	DAPU7	DAPU7	65	Litter	PSSC6	90	Bare Ground	Bare Ground
16	Bare Ground	CHLI2	41	Bare Ground	PSSC6	66	Litter	PSSC6	91	DAPU7	DAPU7
17	Bare Ground	CHLI2	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Rock	Rock	69	DAPU7	DAPU7	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	DAPU7	DAPU7
21	Bare Ground	BOCU	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	ARPU
22	Bare Ground	BOCU	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	BOCU	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	BOCU	BOCU
24	Bare Ground	Bare Ground	49	Bare Ground	Bare Ground	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Litter	PSSC6	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	10
PSSC6	26
CHLI2	2

Project 2019-0298 Deming Mill

Sampler Lara Date 11/11/20

Location Tailings Site

Transect T6

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	DAPU7	DAPU7	26	DAPU7	DAPU7	51	Bare Ground	Bare Ground	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Litter	Litter	77	DAPU7	DAPU7
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	BOCU	78	Bare Ground	Bare Ground
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Bare Ground	BOCU	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	Bare Ground	BOCU	80	Bare Ground	Bare Ground
6	DAPU7	DAPU7	31	DAPU7	DAPU7	56	Bare Ground	BOCU	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Litter	Litter	33	Bare Ground	Bare Ground	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	DAPU7	DAPU7	59	Bare Ground	Bare Ground	84	DAPU7	DAPU7
10	Bare Ground	ARAD	35	DAPU7	DAPU7	60	Bare Ground	BOCU	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	BOCU	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	BOCU	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	DAPU7	DAPU7	64	Bare Ground	Bare Ground	89	Rock	Rock
15	Bare Ground	ARAD	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	DAPU7	DAPU7	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	BOCU	BOCU
17	DAPU7	DAPU7	42	Bare Ground	Bare Ground	67	Bare Ground	BOCU	92	Bare Ground	BOCU
18	DAPU7	DAPU7	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	BOCU
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	BOCU	94	Rock	Rock
20	Bare Ground	Bare Ground	45	Rock	Rock	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	DAPU7	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Litter	BOCU	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	DAPU7	DAPU7	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	Litter	BOCU	74	Bare Ground	Bare Ground	99	Rock	Rock
25	DAPU7	DAPU7	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	BOCU	BOCU

Shrub Density

Species	Count
GUSA2	3

Project 2019-029B Deming Mill

Sampler Lara Date 11/11/20

Location Tailings Site

Transect T7

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	BOCU	51	Bare Ground	Bare Ground	76	Cement	Cement
2	Bare Ground	Bare Ground	27	Rock	Rock	52	Bare Ground	DAPU7	77	Cement	Cement
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	DAPU7	78	Cement	Cement
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Litter	Litter	79	Cement	Cement
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Cement	Cement
6	Rock	Rock	31	Bare Ground	Bare Ground	56	Bare Ground	ARAD	81	Cement	Cement
7	Bare Ground	Bare Ground	32	Bare Ground	BOCU	57	Bare Ground	ARAD	82	Cement	Cement
8	Bare Ground	BOCU	33	BOCU	CHLI2	58	Bare Ground	DAPU7	83	Cement	Cement
9	Bare Ground	Bare Ground	34	BOCU	CHLI2	59	Bare Ground	ARAD	84	Bare Ground	DAPU7
10	Bare Ground	Bare Ground	35	BOCU	CHLI2	60	Bare Ground	ARAD	85	Cement	Cement
11	Bare Ground	BOCU	36	Bare Ground	Bare Ground	61	Bare Ground	DAPU7	86	Cement	Cement
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Cement	Cement	87	Cement	Cement
13	Bare Ground	Bare Ground	38	Bare Ground	ARAD	63	Cement	Cement	88	Bare Ground	ARPU9
14	Litter	BOCU	39	Litter	PSSC6	64	Cement	Cement	89	Bare Ground	ARPU9
15	Bare Ground	Bare Ground	40	Litter	Litter	65	Cement	Cement	90	Rock	Rock
16	Bare Ground	BOCU	41	Bare Ground	Bare Ground	66	Cement	Cement	91	Bare Ground	Bare Ground
17	BOCU	None	42	Bare Ground	Bare Ground	67	Cement	Cement	92	Bare Ground	DAPU7
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Cement	Cement	93	Bare Ground	ARPU9
19	Bare Ground	Bare Ground	44	Bare Ground	DAPU7	69	Cement	Cement	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	ARAD	70	Cement	Cement	95	Bare Ground	Bare Ground
21	Bare Ground	BOCU	46	Rock	Rock	71	Cement	Cement	96	Bare Ground	DAPU7
22	Bare Ground	Bare Ground	47	Bare Ground	ARAD	72	Cement	Cement	97	Bare Ground	DAPU7
23	Bare Ground	Bare Ground	48	Bare Ground	ARAD	73	Cement	Cement	98	Bare Ground	DAPU7
24	Bare Ground	Bare Ground	49	Bare Ground	ARAD	74	Cement	Cement	99	Bare Ground	Bare Ground
25	Bare Ground	BOCU	50	Bare Ground	Bare Ground	75	Cement	Cement	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	5
PSSC6	3

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/11/20

Location Tailings Site

Transect T8

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	BOCU	26	Bare Ground	Bare Ground	51	Bare Ground	BOCU	76	Litter	Litter
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	Bare Ground	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Bare Ground	BOCU	29	Bare Ground	BOCU	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Bare Ground	ARAD	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Bare Ground	Bare Ground	31	Bare Ground	DAPU7	56	Bare Ground	Bare Ground	81	Bare Ground	BOCU
7	Bare Ground	BOCU	32	Bare Ground	Bare Ground	57	Bare Ground	BOCU	82	Bare Ground	Bare Ground
8	Bare Ground	BOCU	33	Bare Ground	Bare Ground	58	Rock	BOCU	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	DAPU7	59	Bare Ground	BOCU	84	Bare Ground	Bare Ground
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	BOCU
11	Bare Ground	ARAD	36	Bare Ground	DAPU7	61	Rock	BOCU	86	Bare Ground	BOCU
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	BOCU	BOCU	87	Bare Ground	BOCU
13	Bare Ground	DAPU7	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	BOCU	39	DAPU7	DAPU7	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	BOCU	40	Bare Ground	BOCU	65	Bare Ground	BOCU	90	Bare Ground	BOCU
16	Bare Ground	BOCU	41	Bare Ground	BOCU	66	Rock	Rock	91	Bare Ground	Bare Ground
17	Bare Ground	BOCU	42	Bare Ground	BOCU	67	Bare Ground	ARAD	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Bare Ground	BOCU	93	Bare Ground	Bare Ground
19	Bare Ground	BOCU	44	Bare Ground	Bare Ground	69	Bare Ground	BOCU	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Litter	Litter	95	Bare Ground	BOCU
21	Bare Ground	BOCU	46	Bare Ground	Bare Ground	71	BOCU	BOCU	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	Bare Ground	BOCU	73	Bare Ground	BOCU	98	Bare Ground	DAPU7
24	Bare Ground	Bare Ground	49	Bare Ground	BOCU	74	Bare Ground	BOCU	99	Bare Ground	BOCU
25	Bare Ground	BOCU	50	BOCU	BOCU	75	Bare Ground	BOCU	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	6

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/12/20

Location Tailings Site

Transect T9

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Rock	BOCU	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Bare Ground	Bare Ground	101	Bare Ground	Bare Ground
2	Rock	Rock	27	Bare Ground	Bare Ground	52	Litter	Litter	77	Bare Ground	DAPU7	102	Bare Ground	Bare Ground
3	Rock	ARPU9	28	Bare Ground	Bare Ground	53	BOCU	BOCU	78	Bare Ground	Bare Ground	103	Bare Ground	Bare Ground
4	Bare Ground	Bare Ground	29	Bare Ground	BOCU	54	Bare Ground	BOCU	79	Bare Ground	Bare Ground	104	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	BOCU	BOCU	80	Bare Ground	Bare Ground	105	Bare Ground	Bare Ground
6	Bare Ground	ARPU9	31	Bare Ground	Bare Ground	56	BOCU	BOCU	81	Rock	Rock	106	Bare Ground	Bare Ground
7	BOCU	BOCU	32	Bare Ground	BOCU	57	Bare Ground	Bare Ground	82	Bare Ground	GUSA2	107	Bare Ground	Bare Ground
8	BOCU	BOCU	33	Bare Ground	Bare Ground	58	Bare Ground	BOCU	83	Bare Ground	ARPU9	108	Bare Ground	Bare Ground
9	Rock	BOCU	34	Bare Ground	Bare Ground	59	Bare Ground	BOCU	84	BOCU	BOCU	109	Bare Ground	Bare Ground
10	Bare Ground	BOCU	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	BOCU	110	Bare Ground	Bare Ground
11	Bare Ground	BOCU	36	Bare Ground	BAMU	61	Bare Ground	BOCU	86	Bare Ground	BOCU	111	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	BOCU	87	Bare Ground	BOCU	112	Bare Ground	Bare Ground
13	Bare Ground	BOCU	38	Bare Ground	Bare Ground	63	BOCU	BOCU	88	Bare Ground	BOCU	113	Bare Ground	Bare Ground
14	Bare Ground	BOCU	39	Bare Ground	Bare Ground	64	Rock	Rock	89	Bare Ground	BOCU	114	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground	115	Bare Ground	Bare Ground
16	Litter	CHLI2	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Litter	Litter	116	Bare Ground	Bare Ground
17	Litter	CHLI2	42	Bare Ground	Bare Ground	67	Bare Ground	BOCU	92	Bare Ground	Bare Ground	117	Bare Ground	Bare Ground
18	ARPU9	CHLI2	43	Bare Ground	ARAD	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground	118	Bare Ground	Bare Ground
19	Litter	CHLI2	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	BOCU	119	Bare Ground	Bare Ground
20	BOCU	CHLI2	45	Bare Ground	Bare Ground	70	Bare Ground	BOCU	95	Bare Ground	Bare Ground	120	Bare Ground	Bare Ground
21	ARPU9	CHLI2	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	BOCU	121	Bare Ground	Bare Ground
22	BOCU	CHLI2	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground	122	Bare Ground	Bare Ground
23	BOCU	CHLI2	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	DAPU7	DAPU7	123	Bare Ground	Bare Ground
24	Rock	CHLI2	49	DAPU7	DAPU7	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground	124	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	BOCU	75	Bare Ground	BOCU	100	Bare Ground	DAPU7	125	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	9
CHLI2	2

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/25/20

Location Tailings Site

Transect T10

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Litter	Woody Litter
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	DAPU7	DAPU7	53	Litter	PEHA	78	Bare Ground	DAPU7
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	DAPU7
5	Bare Ground	PSSC6	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	DAPU7
6	Litter	PSSC6	31	Bare Ground	Bare Ground	56	Bare Ground	Bare Ground	81	Bare Ground	DAPU7
7	Bare Ground	PSSC6	32	DAPU7	DAPU7	57	Bare Ground	Bare Ground	82	GUSA2	GUSA2
8	Bare Ground	Bare Ground	33	Bare Ground	DAPU7	58	Bare Ground	Bare Ground	83	Bare Ground	GUSA2
9	Bare Ground	Bare Ground	34	Bare Ground	DAPU7	59	Bare Ground	DAPU7	84	DAPU7	DAPU7
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	DAPU7
12	Bare Ground	DAPU7	37	Bare Ground	DAPU7	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	DAPU7	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	Bare Ground	DAPU7	89	Bare Ground	Litter
15	Bare Ground	GUSA2	40	Bare Ground	Bare Ground	65	Bare Ground	DAPU7	90	Bare Ground	Bare Ground
16	Bare Ground	Bare Ground	41	Bare Ground	Bare Ground	66	DAPU7	DAPU7	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Litter	PEHA	68	Bare Ground	Bare Ground	93	Bare Ground	BOCU
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	DAPU7
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	ARPU9
21	Bare Ground	DAPU7	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Rock	Rock	47	Rock	Rock	72	Bare Ground	Bare Ground	97	Rock	Woody Litter
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	BOCU
24	Bare Ground	DAPU7	49	DAPU7	DAPU7	74	Bare Ground	DAPU7	99	Bare Ground	Bare Ground
25	Bare Ground	DAPU7	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Bare Ground	BOCU

Shrub Density

Species	Count
PSSC6	4
GUSA2	39

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/25/20

Location Tailings Site

Transect T11

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	DAPU7	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Bare Ground	BOCU
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	DAPU7	DAPU7	28	Bare Ground	Bare Ground	53	Bare Ground	GUSA2	78	Bare Ground	CHLI2
4	Bare Ground	DAPU7	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	BOCU	CHLI2
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	Bare Ground	DAPU7	80	BOCU	CHLI2
6	Bare Ground	DAPU7	31	Bare Ground	DAPU7	56	Bare Ground	Bare Ground	81	Bare Ground	BOCU
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	BOCU
8	Bare Ground	Bare Ground	33	Bare Ground	Bare Ground	58	Bare Ground	BOCU	83	BOCU	BOCU
9	Bare Ground	Bare Ground	34	Rock	BOCU	59	Bare Ground	Bare Ground	84	Bare Ground	BOCU
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Bare Ground	BOCU	85	BOCU	BOCU
11	Bare Ground	Woody Litter	36	BOCU	BOCU	61	Rock	BOCU	86	BOCU	BOCU
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	DAPU7	87	DAPU7	DAPU7
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Rock	BOCU	88	Bare Ground	Bare Ground
14	Bare Ground	DAPU7	39	Bare Ground	Bare Ground	64	BOCU	BOCU	89	Bare Ground	DAPU7
15	Bare Ground	Woody Litter	40	BOCU	BOCU	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	Woody Litter	CHLI2	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Bare Ground	DAPU7
17	Litter	CHLI2	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	DAPU7
18	Bare Ground	CHLI2	43	Bare Ground	ARAD	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	CHLI2	44	Bare Ground	BOCU	69	BOCU	BOCU	94	Bare Ground	Bare Ground
20	Bare Ground	CHLI2	45	Bare Ground	BOCU	70	Rock	Rock	95	Bare Ground	Bare Ground
21	Bare Ground	DAPU7	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	BOCU
22	Bare Ground	BOCU	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	BOCU	BOCU
23	Bare Ground	DAPU7	48	Bare Ground	DAPU7	73	Bare Ground	Bare Ground	98	Litter	BOCU
24	Rock	Rock	49	BOCU	BOCU	74	Bare Ground	Bare Ground	99	Bare Ground	BOCU
25	Bare Ground	Bare Ground	50	Rock	Woody Litter	75	Bare Ground	Bare Ground	100	BOCU	BOCU

Shrub Density

Species	Count
CHLI2	2
PSSC6	1
GUSA2	19

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/12/20

Location Tailings Site

Transect T12

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	PSSC6	PSSC6
2	Bare Ground	BOCU	27	BOCU	BOCU	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	BOCU	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Rock	Rock	29	Litter	PSSC6	54	Bare Ground	BOCU	79	Bare Ground	DAPU7
5	BOCU	BOCU	30	Bare Ground	PSSC6	55	Litter	Litter	80	Bare Ground	Bare Ground
6	Rock	Rock	31	BOCU	BOCU	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Rock	Rock	32	Bare Ground	BOCU	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	BOCU	PSSC6	33	Bare Ground	Bare Ground	58	Bare Ground	BOCU	83	Bare Ground	Bare Ground
9	Bare Ground	PSSC6	34	Bare Ground	Bare Ground	59	Litter	PSSC6	84	Bare Ground	PSSC6
10	Bare Ground	BOCU	35	Bare Ground	PSSC6	60	PSSC6	PSSC6	85	Bare Ground	Bare Ground
11	Rock	Rock	36	Bare Ground	DAPU7	61	Bare Ground	PSSC6	86	Bare Ground	Bare Ground
12	Bare Ground	BOCU	37	Bare Ground	Bare Ground	62	Bare Ground	BOCU	87	Bare Ground	Bare Ground
13	Bare Ground	BOCU	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	BOCU	39	Bare Ground	BOCU	64	Bare Ground	BOCU	89	Bare Ground	BOCU
15	Bare Ground	BOCU	40	ARPU	PSSC6	65	Litter	Litter	90	Bare Ground	PSSC6
16	Bare Ground	Bare Ground	41	Bare Ground	Bare Ground	66	Litter	PSSC6	91	GUSA2	PSSC6
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Litter	Litter
18	Bare Ground	Bare Ground	43	Bare Ground	BOCU	68	Litter	Litter	93	Bare Ground	PSSC6
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Litter	PSSC6	94	Bare Ground	PSSC6
20	Bare Ground	Bare Ground	45	Bare Ground	CHPR6	70	Bare Ground	PSSC6	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	BOCU	47	Bare Ground	CHPR6	72	Litter	Litter	97	Bare Ground	DAPU7
23	Bare Ground	PSSC6	48	Bare Ground	CHPR6	73	Bare Ground	Bare Ground	98	BOCU	BOCU
24	Litter	PSSC6	49	Bare Ground	CHPR6	74	Litter	Litter	99	Litter	Litter
25	Bare Ground	Bare Ground	50	BOCU	BOCU	75	Bare Ground	Bare Ground	100	Litter	Litter

Shrub Density

Species	Count
PSSC6	47
GUSA2	6

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/12/20

Location Tailings Site

Transect T13

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Litter	PSSC6	51	Bare Ground	GUSA2	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	PSSC6	PSSC6	52	Bare Ground	ARAD	77	Bare Ground	PSSC6
3	Bare Ground	Bare Ground	28	BOCU	PSSC6	53	Bare Ground	BOCU	78	PSSC6	PSSC6
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Rock	Rock	79	PSSC6	PSSC6
5	BOCU	PSSC6	30	Bare Ground	BOCU	55	Bare Ground	BOCU	80	Litter	PSSC6
6	Litter	Litter	31	BOCU	BOCU	56	BOCU	BOCU	81	Bare Ground	PSSC6
7	Bare Ground	BOCU	32	Litter	PSSC6	57	Bare Ground	Bare Ground	82	Bare Ground	PSSC6
8	Bare Ground	BOCU	33	Litter	PSSC6	58	Bare Ground	Bare Ground	83	DAPU7	DAPU7
9	Bare Ground	BOCU	34	Bare Ground	Bare Ground	59	Bare Ground	Bare Ground	84	Bare Ground	DAPU7
10	BOCU	BOCU	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	DAPU7
11	Bare Ground	Bare Ground	36	Bare Ground	BOCU	61	Bare Ground	BOCU	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	BOCU	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	BOCU	38	Bare Ground	DAPU7	63	Bare Ground	BOCU	88	BOCU	BOCU
14	Bare Ground	BOCU	39	Litter	PSSC6	64	Bare Ground	ARPU	89	Bare Ground	PSSC6
15	Bare Ground	PSSC6	40	Bare Ground	Bare Ground	65	Bare Ground	BOCU	90	Bare Ground	PSSC6
16	Bare Ground	BOCU	41	Bare Ground	Bare Ground	66	Bare Ground	BOCU	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Litter	Litter	67	Bare Ground	BOCU	92	Bare Ground	GUSA2
18	Bare Ground	Bare Ground	43	Litter	Litter	68	Bare Ground	Bare Ground	93	Bare Ground	GUSA2
19	Bare Ground	BOCU	44	Bare Ground	Bare Ground	69	Bare Ground	BOCU	94	Bare Ground	Bare Ground
20	Bare Ground	BOCU	45	Litter	PSSC6	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	Litter	PSSC6	96	Litter	GUSA2
22	Bare Ground	PSSC6	47	GUSA2	PSSC6	72	BOCU	PSSC6	97	Bare Ground	Bare Ground
23	Litter	PSSC6	48	Bare Ground	BOCU	73	BOCU	PSSC6	98	Litter	PSSC6
24	Litter	PSSC6	49	Bare Ground	PSSC6	74	Bare Ground	BOCU	99	Bare Ground	PSSC6
25	Litter	PSSC6	50	Bare Ground	PSSC6	75	Bare Ground	Bare Ground	100	Bare Ground	Woody Litter

Shrub Density

Species	Count
PSSC6	51
GUSA2	26

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/12/20

Location Tailings Site

Transect T14

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	DAPU7	26	Bare Ground	BOCU	51	Bare Ground	BOCU	76	GUSA2	GUSA2
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	Bare Ground	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	PSSC6	53	Bare Ground	Bare Ground	78	PSSC6	PSSC6
4	Bare Ground	Bare Ground	29	BOCU	PSSC6	54	Bare Ground	Bare Ground	79	PSSC6	PSSC6
5	Bare Ground	BOCU	30	Bare Ground	BOCU	55	Bare Ground	Bare Ground	80	Bare Ground	PSSC6
6	Bare Ground	BOCU	31	Bare Ground	BOCU	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Bare Ground	BOCU	32	Bare Ground	ARPU9	57	Bare Ground	PSSC6	82	Bare Ground	PSSC6
8	Bare Ground	BOCU	33	Bare Ground	Bare Ground	58	Bare Ground	Bare Ground	83	Bare Ground	PSSC6
9	Bare Ground	Bare Ground	34	ARPU9	ARPU9	59	Bare Ground	BOCU	84	Rock	Rock
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Bare Ground	BOCU	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Bare Ground	BOCU	37	Bare Ground	BOCU	62	Bare Ground	PSSC6	87	Bare Ground	PSSC6
13	Bare Ground	BOCU	38	Bare Ground	BOCU	63	Bare Ground	Bare Ground	88	PSSC6	PSSC6
14	Bare Ground	Bare Ground	39	Bare Ground	BOCU	64	Bare Ground	Bare Ground	89	CHAL11	CHAL11
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Bare Ground	PSSC6
16	DAPU7	DAPU7	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	CHAL11	PSSC6
17	Bare Ground	BOCU	42	BOCU	BOCU	67	Bare Ground	Bare Ground	92	Bare Ground	PSSC6
18	Bare Ground	BOCU	43	BOCU	BOCU	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	DAPU7	94	Bare Ground	ARPU9
20	Bare Ground	BOCU	45	Bare Ground	Bare Ground	70	Bare Ground	PSSC6	95	Bare Ground	ARPU9
21	Bare Ground	BOCU	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	BOCU
22	Bare Ground	Bare Ground	47	Bare Ground	BOCU	72	ARPU9	ARPU9	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	BOCU	BOCU
24	Bare Ground	BOCU	49	Bare Ground	BOCU	74	Bare Ground	AFW2	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	BOCU	75	Bare Ground	Bare Ground	100	ARPU9	ARPU9

Shrub Density

Species	Count
PSSC6	23
GUSA2	5

Project 2019-029B Deming Mill

Sampler Lara Date 11/12/20

Location Tailings Site

Transect T1S

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	PSSC6	26	BOCU	BOCU	51	Bare Ground	Bare Ground	76	BOCU	PSSC6
2	BOCU	PSSC6	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Rock	ARPU9
3	Litter	PSSC6	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	BOCU	ARPU9
4	Litter	PSSC6	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	BOCU	ARPU9
5	Bare Ground	BOCU	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Bare Ground	Bare Ground	31	Bare Ground	BOCU	56	Bare Ground	PSSC6	81	Bare Ground	PSSC6
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	PSSC6	82	PSSC6	PSSC6
8	BOCU	BOCU	33	Bare Ground	BOCU	58	BOCU	ARPU9	83	ARPU9	PSSC6
9	Bare Ground	Bare Ground	34	BOCU	BOCU	59	Bare Ground	ARPU9	84	Bare Ground	Bare Ground
10	Bare Ground	BOCU	35	Bare Ground	BOCU	60	Bare Ground	PSSC6	85	Bare Ground	BOCU
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Litter	PSSC6	86	Bare Ground	Bare Ground
12	Bare Ground	BOCU	37	Bare Ground	ARPU9	62	Bare Ground	PSSC6	87	Bare Ground	Bare Ground
13	Bare Ground	BOCU	38	Bare Ground	BOCU	63	ARPU9	ARPU9	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	ARPU9	ARPU9	64	BOCU	ARPU9	89	Bare Ground	ARPU9
15	Bare Ground	Bare Ground	40	Rock	Rock	65	Bare Ground	Bare Ground	90	ARPU9	ARPU9
16	Rock	Rock	41	Bare Ground	Bare Ground	66	Litter	PSSC6	91	Bare Ground	Bare Ground
17	Bare Ground	PSSC6	42	Bare Ground	BOCU	67	Litter	PSSC6	92	Bare Ground	Bare Ground
18	ARPU9	PSSC6	43	GUSA2	PSSC6	68	BOCU	BOCU	93	Bare Ground	BOCU
19	ARPU9	PSSC6	44	Bare Ground	PSSC6	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	ARPU9	45	Bare Ground	Bare Ground	70	Bare Ground	BOCU	95	ARPU9	PSSC6
21	Bare Ground	ARPU9	46	Bare Ground	Bare Ground	71	Bare Ground	PSSC6	96	PSSC6	PSSC6
22	Bare Ground	BOCU	47	BOCU	BOCU	72	Bare Ground	PSSC6	97	ARPU9	PSSC6
23	Litter	PSSC6	48	Bare Ground	BOCU	73	Bare Ground	BOCU	98	Bare Ground	PSSC6
24	ARPU9	PSSC6	49	Litter	PSSC6	74	BOCU	ARPU9	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	BOCU	PSSC6	75	Bare Ground	PSSC6	100	Litter	PSSC6

Shrub Density

Species	Count
PSSC6	16
GUSA2	14

Project 2019-029B Deming Mill

Sampler Lara Date 11/25/20

Location Tailings Site

Transect T16

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	DAPU7	26	Bare Ground	DAPU7	51	Bare Ground	Bare Ground	76	BOCU	BOCU
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	Bare Ground	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	BOCU	BOCU	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Bare Ground	DAPU7	29	Bare Ground	Bare Ground	54	BOCU	BOCU	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	BOCU	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	DAPU7	DAPU7	31	Bare Ground	Bare Ground	56	Bare Ground	BOCU	81	Bare Ground	ARAD
7	Bare Ground	DAPU7	32	BOCU	BOCU	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	DAPU7	33	Bare Ground	DAPU7	58	Bare Ground	BOCU	83	Bare Ground	BOCU
9	Bare Ground	DAPU7	34	Bare Ground	Bare Ground	59	Bare Ground	Bare Ground	84	Bare Ground	Bare Ground
10	Bare Ground	DAPU7	35	BOCU	BOCU	60	Bare Ground	Bare Ground	85	BOCU	BOCU
11	Bare Ground	DAPU7	36	Bare Ground	Bare Ground	61	Bare Ground	BOCU	86	BOCU	BOCU
12	DAPU7	DAPU7	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	BOCU	BOCU
13	Bare Ground	BOCU	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	BOCU	BOCU
14	Bare Ground	DAPU7	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	BOCU	40	Bare Ground	Bare Ground	65	Bare Ground	BOCU	90	Bare Ground	Bare Ground
16	Bare Ground	Bare Ground	41	BOCU	BOCU	66	Rock	BOCU	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Bare Ground	BOCU	67	Bare Ground	BOCU	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	BOCU	BOCU	68	Bare Ground	Bare Ground	93	Bare Ground	BOCU
19	BOCU	BOCU	44	Bare Ground	Bare Ground	69	Rock	Rock	94	Bare Ground	BOCU
20	Bare Ground	Bare Ground	45	BOCU	BOCU	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	DAPU7	46	BOCU	BOCU	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	BOCU	BOCU	47	Bare Ground	BOCU	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	DAPU7	48	Bare Ground	BOCU	73	Bare Ground	ARAD	98	Bare Ground	ARAD
24	DAPU7	DAPU7	49	Bare Ground	BOCU	74	Bare Ground	Bare Ground	99	Rock	BOCU
25	Bare Ground	BOCU	50	Bare Ground	BOCU	75	Bare Ground	Bare Ground	100	BOCU	BOCU

Shrub Density

Species	Count
PSSC6	2
GUSA2	3

Project 2019-029B Deming Mill

Sampler Lara Date 11/12/20

Location Tailings Site

Transect T17

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Litter	PSSC6	51	PSSC6	PSSC6	76	Litter	PSSC6
2	Bare Ground	Bare Ground	27	Litter	PSSC6	52	Litter	PSSC6	77	Litter	PSSC6
3	Bare Ground	Bare Ground	28	Litter	PSSC6	53	Litter	PSSC6	78	Bare Ground	Bare Ground
4	Bare Ground	DAPU7	29	Litter	Litter	54	Litter	PSSC6	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Litter	Litter	55	Bare Ground	PSSC6	80	Bare Ground	Bare Ground
6	Bare Ground	Bare Ground	31	Litter	PSSC6	56	Litter	PSSC6	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Litter	PSSC6	57	Litter	PSSC6	82	Bare Ground	Bare Ground
8	Bare Ground	Bare Ground	33	PSSC6	PSSC6	58	Litter	PSSC6	83	Bare Ground	Bare Ground
9	Bare Ground	ARAD	34	PSSC6	PSSC6	59	Litter	PSSC6	84	Bare Ground	Bare Ground
10	Bare Ground	Bare Ground	35	Litter	PSSC6	60	Litter	PSSC6	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Litter	Litter	61	Litter	PSSC6	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Litter	PSSC6	62	Bare Ground	DAPU7	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Litter	PSSC6	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	PSSC6	PSSC6	64	Bare Ground	DAPU7	89	Bare Ground	Bare Ground
15	Bare Ground	DAPU7	40	ATCA2	PSSC6	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	Bare Ground	DAPU7	41	ATCA2	PSSC6	66	Bare Ground	GUSA2	91	Bare Ground	Bare Ground
17	Bare Ground	DAPU7	42	Litter	ATCA2	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Litter	ATCA2	68	Litter	PSSC6	93	Bare Ground	Bare Ground
19	Bare Ground	DAPU7	44	Bare Ground	Bare Ground	69	Litter	PSSC6	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Litter	PSSC6	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	ARPU	PSSC6	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Litter	PSSC6	97	Bare Ground	Bare Ground
23	Bare Ground	BOAR	48	Bare Ground	PSSC6	73	Litter	PSSC6	98	Bare Ground	Bare Ground
24	Bare Ground	PSSC6	49	Bare Ground	Bare Ground	74	Litter	PSSC6	99	Bare Ground	BOAR
25	SPFE	PSSC6	50	PSSC6	PSSC6	75	PSSC6	PSSC6	100	Bare Ground	BOAR

Shrub Density

Species	Count
GUSA2	10
PSSC6	24
ATCA2	1

Project 2019-029B Deming Mill

Sampler Lara Date 11/12/20

Location Tailings Site

Transect T1B

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	BOCU	ARPU9	51	Bare Ground	Bare Ground	76	Bare Ground	DAPU7
2	Bare Ground	BOCU	27	BOCU	Woody Litter	52	Bare Ground	Bare Ground	77	Litter	PSSC6
3	BOCU	BOCU	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Litter	PSSC6
4	BOCU	ARPU9	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	GUSA2
5	Bare Ground	BOCU	30	Bare Ground	GUSA2	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Bare Ground	BOCU	31	Bare Ground	GUSA2	56	Bare Ground	CHLI2	81	Bare Ground	DAPU7
7	Bare Ground	Bare Ground	32	Bare Ground	GUSA2	57	Bare Ground	PSSC6	82	Bare Ground	Bare Ground
8	Bare Ground	BOCU	33	Bare Ground	ARPU9	58	Litter	Woody Litter	83	Bare Ground	CHAL11
9	Bare Ground	Bare Ground	34	Bare Ground	GUSA2	59	Litter	Litter	84	Bare Ground	CHAL11
10	Bare Ground	PSSC6	35	Bare Ground	GUSA2	60	Litter	Woody Litter	85	Bare Ground	Bare Ground
11	BOCU	BOCU	36	Bare Ground	ARPU9	61	Litter	PSSC6	86	Bare Ground	Bare Ground
12	BOCU	SOIL	37	Bare Ground	Bare Ground	62	Litter	Woody Litter	87	Bare Ground	Bare Ground
13	Litter	Woody Litter	38	Bare Ground	CHLI2	63	Litter	Woody Litter	88	Bare Ground	Bare Ground
14	BOCU	Woody Litter	39	Bare Ground	CHLI2	64	Litter	PSSC6	89	Bare Ground	ARAD
15	Litter	SOIL	40	CHAL11	CHLI2	65	Litter	PSSC6	90	Bare Ground	Bare Ground
16	BOCU	BOCU	41	Bare Ground	CHLI2	66	PSSC6	PSSC6	91	ARAD	GUSA2
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	Litter	PSSC6	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Litter	PSSC6	93	Bare Ground	Bare Ground
19	Bare Ground	BOCU	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	GUSA2
20	Bare Ground	BOCU	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	BOCU	46	Bare Ground	GUSA2	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	ARPU9	ARPU9	73	PSSC6	PSSC6	98	Bare Ground	Bare Ground
24	Bare Ground	BOCU	49	Bare Ground	CHAL11	74	Litter	PSSC6	99	Bare Ground	Bare Ground
25	Litter	ARPU9	50	Bare Ground	Bare Ground	75	Litter	PSSC6	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	42
PSSC6	15
CHLI2	1

Project 2019-029B Deming Mill

Sampler Lara Date 11/18/20

Location Tailings Site

Transect T19

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Rock	Rock	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Bare Ground	BOCU
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	BOCU	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	BOCU	53	Bare Ground	Bare Ground	78	Bare Ground	BOCU
4	Bare Ground	Bare Ground	29	Bare Ground	BOCU	54	BOCU	BOCU	79	Bare Ground	BOCU
5	Bare Ground	Bare Ground	30	Bare Ground	BOCU	55	Bare Ground	BOCU	80	Bare Ground	BOCU
6	Bare Ground	Bare Ground	31	Bare Ground	Bare Ground	56	Bare Ground	BOCU	81	Bare Ground	ARPU9
7	Bare Ground	BOCU	32	Bare Ground	Bare Ground	57	Bare Ground	BOCU	82	Bare Ground	BOCU
8	Bare Ground	PSSC6	33	Bare Ground	Bare Ground	58	Rock	Rock	83	Litter	Litter
9	PSSC6	PSSC6	34	Bare Ground	Bare Ground	59	Bare Ground	BOCU	84	Bare Ground	Bare Ground
10	Litter	PSSC6	35	Bare Ground	BOCU	60	Bare Ground	BOCU	85	Bare Ground	Bare Ground
11	Bare Ground	PSSC6	36	Bare Ground	PSSC6	61	Bare Ground	BOCU	86	Bare Ground	BOCU
12	Bare Ground	BOCU	37	Litter	PSSC6	62	Bare Ground	Bare Ground	87	Bare Ground	BOCU
13	Bare Ground	BOCU	38	BOCU	PSSC6	63	Bare Ground	Bare Ground	88	BOCU	BOCU
14	Bare Ground	Bare Ground	39	Litter	PSSC6	64	Bare Ground	BOCU	89	Bare Ground	Bare Ground
15	Bare Ground	BOCU	40	Litter	PSSC6	65	Bare Ground	Bare Ground	90	Rock	BOCU
16	Bare Ground	Bare Ground	41	Bare Ground	BAMU	66	Bare Ground	Bare Ground	91	Rock	BOCU
17	BOCU	CHLI2	42	DAPU7	DAPU7	67	Bare Ground	Bare Ground	92	Bare Ground	BOCU
18	Bare Ground	CHLI2	43	Bare Ground	Bare Ground	68	Litter	PSSC6	93	Bare Ground	BOCU
19	Bare Ground	CHLI2	44	Bare Ground	Bare Ground	69	Litter	PSSC6	94	Bare Ground	Bare Ground
20	Bare Ground	CHLI2	45	Bare Ground	Bare Ground	70	Litter	PSSC6	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	BOCU	BOCU	96	Bare Ground	BOCU
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	BOCU	BOCU	74	Bare Ground	BOCU	99	BOCU	BOCU
25	Bare Ground	Bare Ground	50	Bare Ground	Bare Ground	75	Bare Ground	BOCU	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
CHLI2	2
PSSC6	5
GUSA2	2
PRGL2	2

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T20

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Rock	BOCU	26	Bare Ground	BOCU	51	Bare Ground	Bare Ground	76	Bare Ground	PSSC6
2	Bare Ground	ARPU9	27	Bare Ground	BOCU	52	Bare Ground	ARPU9	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	ARPU9	53	Bare Ground	BOCU	78	Bare Ground	Bare Ground
4	BOCU	PSSC6	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Litter	PSSC6	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Litter	PSSC6	31	Bare Ground	Bare Ground	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	ARPU9	PSSC6	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	ARPU9	PSSC6	33	Bare Ground	Bare Ground	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	BOCU	PSSC6	34	Bare Ground	PSSC6	59	Bare Ground	Bare Ground	84	Bare Ground	BOCU
10	ARPU9	ARPU9	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	BOCU
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	BOCU	86	BOCU	BOCU
12	Bare Ground	PSSC6	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Bare Ground	BOCU
13	Litter	PSSC6	38	BOCU	BOCU	63	BOCU	BOCU	88	Bare Ground	Bare Ground
14	Bare Ground	PSSC6	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Rock	BOCU	90	Bare Ground	Bare Ground
16	Rock	Rock	41	Bare Ground	BOCU	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	Bare Ground	BOCU	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	BOCU	BOCU	68	Bare Ground	BOCU	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	BOCU	69	Bare Ground	Bare Ground	94	Bare Ground	BOCU
20	Bare Ground	BOCU	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	BOCU	BOCU
21	Bare Ground	BOCU	46	Bare Ground	Bare Ground	71	Bare Ground	BOCU	96	Bare Ground	BOCU
22	Bare Ground	BOCU	47	Bare Ground	Bare Ground	72	Bare Ground	BOCU	97	Bare Ground	BOCU
23	Bare Ground	BOCU	48	Bare Ground	BOCU	73	BOCU	BOCU	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	Bare Ground	BOCU	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	Bare Ground	75	BOCU	PSSC6	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	8
GUSA2	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T21

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	BOCU	51	Bare Ground	PSSC6	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	PSSC6	PSSC6	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	BOCU	53	Litter	PSSC6	78	Bare Ground	Bare Ground
4	ARPU9	PSSC6	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Litter	PSSC6	30	BOCU	BOCU	55	Bare Ground	BAMU	80	Bare Ground	Bare Ground
6	PSSC6	PSSC6	31	Litter	Litter	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Litter	PSSC6	32	BOCU	PSSC6	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Litter	PSSC6	33	PGW6	PSSC6	58	Bare Ground	Bare Ground	83	SPFE	SPFE
9	BOCU	PSSC6	34	Bare Ground	Bare Ground	59	Bare Ground	PSSC6	84	Bare Ground	SPFE
10	Bare Ground	Bare Ground	35	Bare Ground	DAPU7	60	Bare Ground	PSSC6	85	Bare Ground	Bare Ground
11	Bare Ground	BOCU	36	Bare Ground	PSSC6	61	Bare Ground	PSSC6	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	PSSC6	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	BOCU	38	Bare Ground	PSSC6	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	BOCU	39	Bare Ground	PSSC6	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	DAPU7	90	Bare Ground	BAMU
16	Bare Ground	Bare Ground	41	Bare Ground	DAPU7	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Bare Ground	ARAD	42	DAPU7	DAPU7	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	PSSC6	44	Bare Ground	Bare Ground	69	BAMU	GUSA2	94	Bare Ground	Bare Ground
20	BOCU	PSSC6	45	DAPU7	DAPU7	70	Bare Ground	Bare Ground	95	Bare Ground	BAMU
21	BOCU	PSSC6	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	BOCU	PSSC6	47	SPFE	SPFE	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	PSSC6	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	Bare Ground	Bare Ground	74	Bare Ground	SPFE	99	Bare Ground	Bare Ground
25	BOCU	BOCU	50	Bare Ground	Bare Ground	75	Bare Ground	SPFE	100	Bare Ground	BAMU

Shrub Density

Species	Count
PSSC6	8
GUSA2	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/18/20

Location Tailings Site

Transect T22

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	DAPU7	DAPU7	51	Bare Ground	Bare Ground	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	Bare Ground	PSSC6	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	PSSC6	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Bare Ground	Bare Ground	29	Bare Ground	PSSC6	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Bare Ground	DAPU7	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	ARPU9	ARPU9	31	Bare Ground	Bare Ground	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	PSSC6
8	Bare Ground	Bare Ground	33	Bare Ground	BOCU	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	ARPU9	34	Bare Ground	BOCU	59	BOCU	BOCU	84	Bare Ground	Bare Ground
10	Bare Ground	CHLI2	35	Bare Ground	Bare Ground	60	Bare Ground	BOCU	85	Bare Ground	Bare Ground
11	BOCU	CHLI2	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	ARPU9	CHLI2	37	Bare Ground	Bare Ground	62	DAPU7	DAPU7	87	Bare Ground	Bare Ground
13	DAPU7	CHLI2	38	Bare Ground	BOCU	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	ARPU9	39	BOCU	BOCU	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	Bare Ground	Bare Ground	41	ARPU9	ARPU9	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Bare Ground	DAPU7	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	DAPU7	DAPU7	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	GUSA2	GUSA2
23	Bare Ground	Bare Ground	48	Bare Ground	DAPU7	73	Bare Ground	Bare Ground	98	Bare Ground	DAPU7
24	Bare Ground	DAPU7	49	Bare Ground	DAPU7	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	DAPU7	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	1
PSSC6	3
CHLI2	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T23

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	BOCU	26	Bare Ground	BOCU	51	Bare Ground	ARPU9	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	Bare Ground	BOCU	52	Bare Ground	ARPU9	77	BOCU	BOCU
3	Bare Ground	BOCU	28	Bare Ground	Bare Ground	53	Bare Ground	ARPU9	78	Bare Ground	Bare Ground
4	Bare Ground	BOCU	29	BOCU	ARPU9	54	ARPU9	ARPU9	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	PSSC6	55	ARPU9	ARPU9	80	Bare Ground	BOCU
6	BOCU	BOCU	31	Bare Ground	BOCU	56	Bare Ground	ARPU9	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	ARPU9	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	BOCU	33	Woody Litter	Woody Litter	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	BOCU	59	Bare Ground	ARPU9	84	Bare Ground	BOCU
10	Bare Ground	BOCU	35	Bare Ground	ARPU9	60	Bare Ground	ARAD	85	Bare Ground	BOCU
11	Bare Ground	BOCU	36	Bare Ground	Bare Ground	61	Bare Ground	ARAD	86	Bare Ground	BOCU
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	BOCU	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	BOCU
14	Bare Ground	BOCU	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	BOCU
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	ARAD	90	Bare Ground	BOCU
16	Bare Ground	ARPU9	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	BOCU	BOCU
17	Bare Ground	ARPU9	42	Bare Ground	BOCU	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	BOCU	43	Bare Ground	Bare Ground	68	Bare Ground	GUSA2	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	BOCU	BOCU	69	Bare Ground	BOCU	94	Bare Ground	BOCU
20	Bare Ground	ARPU9	45	Bare Ground	ARPU9	70	Bare Ground	BOCU	95	Bare Ground	Bare Ground
21	BOCU	BOCU	46	BOCU	ARPU9	71	Bare Ground	Bare Ground	96	BOCU	BOCU
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	ARPU9	ARPU9	97	Bare Ground	BOCU
23	Bare Ground	BOCU	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Rock	BOCU	49	Bare Ground	ARPU9	74	BOCU	BOCU	99	BOCU	BOCU
25	BOCU	BOCU	50	BOCU	BOCU	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	6
PSSC6	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/25/20

Location Tailings Site

Transect T24

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	ARAD	51	ARAD	ARAD	76	Bare Ground	DAPU7			
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	DAPU7	77	Bare Ground	BAMU			
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	BOCU	78	Bare Ground	Bare Ground			
4	Bare Ground	ARAD	29	Bare Ground	Bare Ground	54	Bare Ground	BOCU	79	Bare Ground	Bare Ground			
5	Bare Ground	Bare Ground	30	Bare Ground	DAPU7	55	Bare Ground	DAPU7	80	Bare Ground	Bare Ground			
6	Bare Ground	Bare Ground	31	Bare Ground	BOCU	56	Bare Ground	DAPU7	81	Bare Ground	Bare Ground			
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground			
8	Bare Ground	DAPU7	33	Bare Ground	Bare Ground	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground			
9	Bare Ground	Bare Ground	34	Bare Ground	BOCU	59	Bare Ground	Bare Ground	84	Bare Ground	Bare Ground			
10	Bare Ground	Bare Ground	35	Bare Ground	BOCU	60	DAPU7	DAPU7	85	Bare Ground	Bare Ground			
11	Bare Ground	Bare Ground	36	Bare Ground	BOCU	61	Bare Ground	BOCU	86	Bare Ground	Bare Ground			
12	BOCU	BOCU	37	DAPU7	DAPU7	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground			
13	DAPU7	DAPU7	38	Bare Ground	Bare Ground	63	Bare Ground	BOCU	88	Bare Ground	BOCU			
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	BOCU	BOCU	89	Bare Ground	Bare Ground			
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground			
16	BAMU	BAMU	41	BOCU	BOCU	66	DAPU7	DAPU7	91	BOCU	BOCU			
17	Bare Ground	Bare Ground	42	Bare Ground	ARAD	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground			
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground			
19	Bare Ground	BOCU	44	Bare Ground	BOCU	69	BOCU	BOCU	94	Bare Ground	Bare Ground			
20	Bare Ground	BOCU	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground			
21	BOCU	BOCU	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	BOCU			
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	BOCU	97	Bare Ground	Bare Ground			
23	Bare Ground	BOCU	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Rock	Rock			
24	Bare Ground	BOCU	49	Bare Ground	Bare Ground	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground			
25	BOCU	BOCU	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Bare Ground	BOCU			

Shrub Density

Species	Count
GUSA2	3

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T2S

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	BOCU	51	Rock	Rock	76	Bare Ground	BOCU
2	Bare Ground	Bare Ground	27	Bare Ground	ARPU9	52	BOCU	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	BOCU	78	Bare Ground	Bare Ground
4	Bare Ground	DAPU7	29	Bare Ground	PSSC6	54	BOCU	BOCU	79	BOCU	BOCU
5	DAPU7	ARAD	30	BOCU	PSSC6	55	Bare Ground	BOCU	80	BOCU	BOCU
6	Bare Ground	ARAD	31	Bare Ground	Bare Ground	56	Bare Ground	BOCU	81	Bare Ground	BOCU
7	Bare Ground	Bare Ground	32	BOCU	BOCU	57	Bare Ground	Bare Ground	82	Bare Ground	CHU2
8	Bare Ground	Bare Ground	33	Bare Ground	Bare Ground	58	Rock	ARAD	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	Woody Litter	84	Bare Ground	Bare Ground
10	ARAD	BOCU	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	Bare Ground	BOCU
11	Bare Ground	ARPU9	36	BOCU	BOCU	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	BOCU	62	Bare Ground	BOCU	87	Bare Ground	BOCU
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	BOCU	88	Bare Ground	Bare Ground
14	Bare Ground	PSSC6	39	Bare Ground	ARPU9	64	Bare Ground	BOCU	89	Bare Ground	Bare Ground
15	Litter	PSSC6	40	Bare Ground	BOCU	65	Bare Ground	BOCU	90	Bare Ground	Bare Ground
16	Litter	PSSC6	41	Bare Ground	BOCU	66	Bare Ground	BOCU	91	Bare Ground	BOCU
17	Litter	PSSC6	42	Bare Ground	BOCU	67	Bare Ground	BOCU	92	Bare Ground	BOCU
18	Bare Ground	DAPU7	43	Rock	Rock	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	BOCU	BOCU	44	ARAD	ARAD	69	Bare Ground	BOCU	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	BOCU	BOCU	70	Bare Ground	Bare Ground	95	Bare Ground	BOCU
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	CHPR6	CHPR6
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	BOCU	97	Bare Ground	BOCU
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	BOCU
24	Bare Ground	BOCU	49	Bare Ground	BOCU	74	BOCU	BOCU	99	Bare Ground	Bare Ground
25	Bare Ground	BOCU	50	Bare Ground	BOCU	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
CHU2	1
GUSA2	11
PSSC6	3

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T26

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	BOCU	BOCU	26	Bare Ground	Bare Ground	51	Bare Ground	DAPU7	76	Bare Ground	BOCU
2	Bare Ground	BOCU	27	Bare Ground	Bare Ground	52	Bare Ground	DAPU7	77	Bare Ground	ARAD
3	Bare Ground	Bare Ground	28	Bare Ground	DAPU7	53	DAPU7	DAPU7	78	Bare Ground	Bare Ground
4	Bare Ground	BOCU	29	Bare Ground	ARPU9	54	Bare Ground	DAPU7	79	BOCU	BOCU
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	Bare Ground	BOCU	80	Bare Ground	BOCU
6	Bare Ground	BOCU	31	Bare Ground	Bare Ground	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	Bare Ground	BOCU	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	Bare Ground	33	Bare Ground	Bare Ground	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	Bare Ground	84	Bare Ground	Bare Ground
10	Bare Ground	ARPU9	35	Bare Ground	Bare Ground	60	Bare Ground	ARPU9	85	Bare Ground	Bare Ground
11	Bare Ground	DAPU7	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	ARAD	ARAD
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	DAPU7	88	Bare Ground	BOCU
14	BOCU	BOCU	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	Bare Ground	BOCU	90	BOCU	BOCU
16	Bare Ground	DAPU7	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Bare Ground	BOCU
17	DAPU7	DAPU7	42	DAPU7	DAPU7	67	Bare Ground	BOCU	92	Bare Ground	Bare Ground
18	Bare Ground	DAPU7	43	Bare Ground	Bare Ground	68	Bare Ground	ARPU9	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	ARAD	95	Bare Ground	Bare Ground
21	DAPU7	DAPU7	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	DAPU7	72	Bare Ground	Bare Ground	97	Bare Ground	BOCU
23	Bare Ground	Bare Ground	48	Bare Ground	DAPU7	73	Bare Ground	Bare Ground	98	Bare Ground	BOCU
24	Bare Ground	DAPU7	49	Bare Ground	Bare Ground	74	Rock	Rock	99	Bare Ground	BOCU
25	Bare Ground	Bare Ground	50	Bare Ground	DAPU7	75	BOCU	BOCU	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	7

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/18/20

Location Tailings Site

Transect T27

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	BOCU	51	Bare Ground	Bare Ground	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	BOCU	77	Bare Ground	Bare Ground
3	Bare Ground	BOCU	28	BOCU	BOCU	53	Rock	Rock	78	Bare Ground	DAPU7
4	Bare Ground	Bare Ground	29	Bare Ground	BOCU	54	Bare Ground	Bare Ground	79	Bare Ground	DAPU7
5	BOCU	BOCU	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Bare Ground	BOCU	31	Bare Ground	Bare Ground	56	Bare Ground	PSSC6	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	ARPU9
8	Bare Ground	BOCU	33	Bare Ground	BOCU	58	Bare Ground	BOCU	83	ARAD	ARAD
9	BOCU	BOCU	34	Bare Ground	BOCU	59	Bare Ground	BOCU	84	Bare Ground	ARAD
10	Bare Ground	BOCU	35	Bare Ground	BOCU	60	Bare Ground	Bare Ground	85	Bare Ground	DAPU7
11	Bare Ground	Bare Ground	36	Bare Ground	BOCU	61	Bare Ground	BOCU	86	DAPU7	DAPU7
12	BOCU	BOCU	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Bare Ground	DAPU7
13	Bare Ground	BOCU	38	Bare Ground	BOCU	63	Bare Ground	Bare Ground	88	Bare Ground	ARAD
14	Bare Ground	Bare Ground	39	BOCU	PSSC6	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	BOCU	BOCU	40	Litter	PSSC6	65	Bare Ground	DAPU7	90	Bare Ground	ARPU9
16	Bare Ground	Bare Ground	41	Bare Ground	BOCU	66	Bare Ground	Bare Ground	91	Bare Ground	ARAD
17	Bare Ground	Bare Ground	42	Bare Ground	BOCU	67	Bare Ground	Bare Ground	92	Bare Ground	ARAD
18	Bare Ground	BOCU	43	Bare Ground	BOCU	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	PSSC6	69	Bare Ground	DAPU7	94	Bare Ground	ARAD
20	Bare Ground	Bare Ground	45	PSSC6	PSSC6	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	BOCU	46	BOCU	PSSC6	71	Bare Ground	ARAD	96	Bare Ground	Bare Ground
22	Bare Ground	BOCU	47	Bare Ground	BOCU	72	Bare Ground	Bare Ground	97	Bare Ground	ARPU9
23	Bare Ground	Bare Ground	48	Bare Ground	BOCU	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	Litter	Litter	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	BOCU	BOCU	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
GUSA2	26
PSSC6	4

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/19/20

Location Tailings Site

Transect T2B

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	BOCU	BOCU	26	Bare Ground	Bare Ground	51	Rock	BOCU	76	Bare Ground	Bare Ground
2	Bare Ground	Bare Ground	27	PSSC6	PSSC6	52	Rock	Rock	77	Bare Ground	BOCU
3	ARAD	PSSC6	28	Bare Ground	Bare Ground	53	Bare Ground	BOCU	78	Bare Ground	Bare Ground
4	BOCU	PSSC6	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	BOCU	PSSC6	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Bare Ground	Bare Ground	31	Bare Ground	BOCU	56	Rock	Rock	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	ARAD
8	Bare Ground	Bare Ground	33	Bare Ground	GUSA2	58	Bare Ground	BOCU	83	Bare Ground	BOCU
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	BOCU	84	Litter	PSSC6
10	Bare Ground	BOCU	35	GUSA2	GUSA2	60	Bare Ground	Bare Ground	85	BOCU	PSSC6
11	Bare Ground	BOCU	36	Litter	PSSC6	61	BOCU	BOCU	86	BOCU	PSSC6
12	Bare Ground	PSSC6	37	PSSC6	PSSC6	62	Bare Ground	Bare Ground	87	Bare Ground	ARPU9
13	Litter	PSSC6	38	Litter	PSSC6	63	Bare Ground	Bare Ground	88	BOCU	BOCU
14	Litter	PSSC6	39	Litter	PSSC6	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	PSSC6	40	BOCU	PSSC6	65	BOCU	BOCU	90	Bare Ground	Bare Ground
16	ARAD	PSSC6	41	BOCU	PSSC6	66	Bare Ground	Bare Ground	91	BOCU	BOCU
17	Bare Ground	PSSC6	42	Bare Ground	Bare Ground	67	BOCU	PSSC6	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	PSSC6	PSSC6	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	BOCU	PSSC6	94	Bare Ground	Bare Ground
20	Bare Ground	PSSC6	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	ARAD	PSSC6	46	Bare Ground	Bare Ground	71	Bare Ground	BOCU	96	GUSA2	PSSC6
22	ARAD	GUSA2	47	Rock	Rock	72	Bare Ground	Bare Ground	97	Litter	PSSC6
23	Bare Ground	Bare Ground	48	BOCU	BOCU	73	Bare Ground	BOCU	98	Bare Ground	PSSC6
24	Bare Ground	PSSC6	49	Rock	Rock	74	BOCU	BOCU	99	Bare Ground	BOCU
25	DAPU7	PSSC6	50	Rock	BOCU	75	Bare Ground	BOCU	100	BOCU	BOCU

Shrub Density

Species	Count
PSSC6	22
GUSA2	27

Project 2019-029B Deming Mill

Sampler Lara Date 11/19/20

Location Tailings Site

Transect T29

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	BOCU	BOCU	26	Bare Ground	Bare Ground	51	Litter	ARPU9	76	Bare Ground	Bare Ground
2	Bare Ground	BOCU	27	Bare Ground	BOCU	52	Litter	Litter	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	BOCU	CHLI2	78	Bare Ground	Bare Ground
4	Bare Ground	Bare Ground	29	Bare Ground	PSSC6	54	Litter	ARPU9	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	PSSC6	55	Litter	Litter	80	Bare Ground	BOAR
6	Bare Ground	Bare Ground	31	Litter	PSSC6	56	Litter	ARPU9	81	Bare Ground	BOAR
7	Bare Ground	Bare Ground	32	Bare Ground	PSSC6	57	Litter	Litter	82	Bare Ground	BOAR
8	Bare Ground	BOCU	33	Bare Ground	PSSC6	58	Litter	ARPU9	83	Bare Ground	BOAR
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	Bare Ground	84	Bare Ground	BOAR
10	Bare Ground	BOCU	35	Bare Ground	ARPU9	60	Litter	DAPU7	85	Bare Ground	BOAR
11	Bare Ground	Bare Ground	36	ARPU9	ARPU9	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	DAPU7	DAPU7	37	Bare Ground	PSSC6	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	PSSC6	PSSC6	63	Bare Ground	ARAD	88	Bare Ground	Bare Ground
14	Bare Ground	BOCU	39	BOCU	BOCU	64	Bare Ground	GUSA2	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	Bare Ground	65	ARPU9	ARPU9	90	Bare Ground	BOAR
16	Bare Ground	Bare Ground	41	Bare Ground	Bare Ground	66	Bare Ground	ARPU9	91	Bare Ground	BOAR
17	Bare Ground	BOCU	42	Bare Ground	ARPU9	67	DAPU7	ARPU9	92	Bare Ground	BOAR
18	Bare Ground	BOCU	43	Bare Ground	Bare Ground	68	Bare Ground	ARPU9	93	Bare Ground	BOAR
19	Bare Ground	ARPU9	44	Litter	PSSC6	69	Bare Ground	Bare Ground	94	DAPU7	DAPU7
20	BOCU	ARPU9	45	Litter	PSSC6	70	Bare Ground	BOAR	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	ARPU9	PSSC6	71	Bare Ground	BOAR	96	Bare Ground	DAPU7
22	Bare Ground	BOCU	47	Litter	Litter	72	Bare Ground	BOAR	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	Litter	ARPU9	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	BOCU	49	Litter	Litter	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Litter	ARPU9	75	Bare Ground	Bare Ground	100	Bare Ground	DAPU7

Shrub Density

Species	Count
PSSC6	9
GUSA2	32

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/25/20

Location Tailings Site

Transect T30

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	CHU2	26	Litter	Litter	51	Bare Ground	Bare Ground	76	Bare Ground	Bare Ground
2	BOLAT	CHU2	27	Litter	PSSC6	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Litter	BOLAT	28	Bare Ground	BOCU	53	Bare Ground	Bare Ground	78	Bare Ground	DAPU7
4	Litter	BOCU	29	Bare Ground	PSSC6	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Bare Ground	BOCU	30	Bare Ground	PSSC6	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	BOLAT	PSSC6	31	Bare Ground	BAMU	56	Bare Ground	Bare Ground	81	SPFE	SPFE
7	PSSC6	PSSC6	32	Litter	PSSC6	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Litter	PSSC6	33	Litter	PSSC6	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	BOLAT	PSSC6	34	Litter	PSSC6	59	Bare Ground	SPFE	84	Bare Ground	DAPU7
10	BOCU	PSSC6	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	DAPU7	DAPU7
11	Litter	BOCU	36	Bare Ground	Bare Ground	61	Litter	SPFE	86	Bare Ground	Bare Ground
12	BOLAT	PSSC6	37	Bare Ground	Bare Ground	62	SPFE	SPFE	87	Bare Ground	Bare Ground
13	SPFE	SPFE	38	Bare Ground	BOCU	63	Bare Ground	SPFE	88	Bare Ground	Bare Ground
14	BOLAT	BOLAT	39	Bare Ground	Bare Ground	64	Bare Ground	SPFE	89	Litter	SPFE
15	Litter	PSSC6	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Litter	DAPU7
16	Litter	PSSC6	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Rock	Rock
17	Litter	PSSC6	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	BOCU	43	Bare Ground	BOCU	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	BOCU	PSSC6	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	BOCU	45	Bare Ground	Bare Ground	70	DAPU7	DAPU7	95	Bare Ground	Bare Ground
21	Bare Ground	BOCU	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	DAPU7
22	Bare Ground	BOLAT	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	BOCU	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	GUSA2
24	BOCU	BOCU	49	Bare Ground	Bare Ground	74	Bare Ground	SPFE	99	DAPU7	DAPU7
25	Bare Ground	ARFU9	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	16
GUSA2	5

Reference Site

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R31

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	BOCO2	26	Litter	PECTI	51	AF#7	AF#7	76	Bare Ground	AF#11
2	Litter	BOCO2	27	Bare Ground	BOCO2	52	Litter	PSSC6	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	BOCO2	53	Litter	BOCO2	78	Litter	Woody Litter
4	BOCO2	BOCO2	29	Bare Ground	BOCO2	54	Bare Ground	Bare Ground	79	Litter	Woody Litter
5	Bare Ground	BOCO2	30	Litter	Woody Litter	55	Bare Ground	Bare Ground	80	Litter	AF#7
6	Litter	BOCO2	31	Litter	Woody Litter	56	Bare Ground	Bare Ground	81	Litter	Litter
7	Litter	Litter	32	Litter	Litter	57	Bare Ground	BOAR	82	Bare Ground	BOAR
8	AF#7	DESCU	33	AF#7	DESCU	58	Bare Ground	Bare Ground	83	Litter	Litter
9	PECTI	DESCU	34	Bare Ground	BOAR	59	Litter	BOAR	84	Bare Ground	BAMU
10	Litter	Litter	35	BAMU	BAMU	60	Litter	BOAR	85	Bare Ground	Bare Ground
11	Bare Ground	AF#7	36	BAMU	BAMU	61	Litter	Litter	86	AF#7	AF#7
12	GUSA2	GUSA2	37	Litter	AF#7	62	Litter	BOAR	87	Litter	Litter
13	Bare Ground	GUSA2	38	Bare Ground	Bare Ground	63	Litter	Woody Litter	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Bare Ground	BOAR	64	Litter	Litter	89	AF#7	DESCU
15	Bare Ground	Bare Ground	40	Litter	Litter	65	Bare Ground	Bare Ground	90	Litter	BAMU
16	Bare Ground	Bare Ground	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Litter	Litter
17	Bare Ground	PECTI	42	Litter	BOCO2	67	Bare Ground	Bare Ground	92	DESCU	DESCU
18	Litter	Litter	43	Litter	BOAR	68	Bare Ground	PECTI	93	Litter	DESCU
19	BOAR	BAMU	44	Litter	Litter	69	Bare Ground	Woody Litter	94	Litter	DESCU
20	Bare Ground	BOAR	45	Litter	Litter	70	Bare Ground	Bare Ground	95	Litter	BOAR
21	Bare Ground	Bare Ground	46	Litter	AF#7	71	Bare Ground	Bare Ground	96	TILA2	DESCU
22	Litter	BOAR	47	Bare Ground	Bare Ground	72	Bare Ground	TILA2	97	Litter	DESCU
23	Bare Ground	Bare Ground	48	Bare Ground	BAMU	73	BOAR	BOAR	98	Litter	DESCU
24	Bare Ground	BAMU	49	Bare Ground	Bare Ground	74	Litter	Litter	99	Litter	Litter
25	Litter	AF#7	50	Bare Ground	BAMU	75	Litter	AF#7	100	Bare Ground	BAMU

Shrub Density

Species	Count
EPTR	2
PSSC6	1
GUSA2	5

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R32

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Litter	DESCU	51	Litter	Litter	76	Bare Ground	PSSC6
2	Bare Ground	Bare Ground	27	AF#11	DESCU	52	Bare Ground	Bare Ground	77	Bare Ground	PSSC6
3	Litter	DESCU	28	Litter	Litter	53	Bare Ground	BOAR	78	BOCO2	BOCO2
4	Bare Ground	AF#11	29	Bare Ground	BOCO2	54	Bare Ground	BOCO2	79	BOAR	BOAR
5	Litter	Litter	30	Bare Ground	Bare Ground	55	BOAR	BOAR	80	Litter	DESCU
6	Litter	Litter	31	Litter	BOCO2	56	Bare Ground	BOAR	81	DESCU	DESCU
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	Litter	82	Bare Ground	Bare Ground
8	Bare Ground	BOAR	33	Bare Ground	AF#11	58	Bare Ground	DESCU	83	Bare Ground	TILA2
9	Bare Ground	Bare Ground	34	Litter	Litter	59	Litter	Litter	84	Bare Ground	BOCO2
10	BOCO2	BOCO2	35	Litter	Litter	60	Litter	DESCU	85	Bare Ground	BOCO2
11	Bare Ground	Bare Ground	36	Bare Ground	AF#11	61	Bare Ground	Woody Litter	86	Bare Ground	DESCU
12	Bare Ground	Bare Ground	37	Bare Ground	AF#11	62	TILA2	TILA2	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Litter	Litter	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	AF#7	39	Bare Ground	Bare Ground	64	Bare Ground	BOAR	89	Bare Ground	Bare Ground
15	Litter	Litter	40	Bare Ground	Bare Ground	65	Bare Ground	Litter	90	Bare Ground	Bare Ground
16	Litter	Litter	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Woody Litter	Woody Litter
17	Litter	Litter	42	Bare Ground	BOCO2	67	Bare Ground	AMAC	92	BOAR	BOAR
18	Litter	AF#7	43	Litter	Litter	68	Bare Ground	Bare Ground	93	Bare Ground	AMAC
19	Bare Ground	BOCO2	44	Bare Ground	BOCO2	69	Litter	Litter	94	Bare Ground	BOAR
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Litter	DESCU	95	Bare Ground	BOAR
21	Litter	AF#7	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	AF#7	DESCU	47	Litter	BOAR	72	Litter	DESCU	97	Bare Ground	BOCO2
23	Bare Ground	DESCU	48	Bare Ground	BOCO2	73	Litter	Litter	98	BOAR	BOAR
24	Bare Ground	DESCU	49	Bare Ground	Bare Ground	74	Litter	PSSC6	99	Bare Ground	Woody Litter
25	DIW12	DIW12	50	Bare Ground	Bare Ground	75	Litter	PSSC6	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	2
YUEL	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R33

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	BOCO2	26	TILA2	DESCU	51	Litter	Litter	76	BOCO2	AMAC
2	Bare Ground	BOCO2	27	BOCO2	DESCU	52	Litter	Bare Ground	77	Litter	BOCO2
3	Bare Ground	AMAC	28	Litter	AMAC	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	BAMU	BAMU	29	Litter	Litter	54	Bare Ground	BOCO2	79	Bare Ground	Bare Ground
5	Bare Ground	BOCO2	30	Litter	Litter	55	Litter	Litter	80	Bare Ground	Bare Ground
6	BOCO2	BOCO2	31	Litter	DESCU	56	Bare Ground	BOCO2	81	Bare Ground	Bare Ground
7	Litter	BOCO2	32	BOCO2	DESCU	57	Bare Ground	Bare Ground	82	Bare Ground	Bare Ground
8	Bare Ground	BAMU	33	Litter	AF#7	58	Bare Ground	Litter	83	Bare Ground	BOCO2
9	Bare Ground	Bare Ground	34	Litter	Litter	59	Bare Ground	Bare Ground	84	Bare Ground	PSSC6
10	Bare Ground	Bare Ground	35	AMAC	DESCU	60	Litter	Litter	85	Bare Ground	PSSC6
11	Bare Ground	BAMU	36	Bare Ground	BOCO2	61	Litter	Litter	86	Bare Ground	Litter
12	Litter	BAMU	37	Bare Ground	BOAR	62	Bare Ground	DESCU	87	Bare Ground	Litter
13	Litter	Liter	38	BOCO2	BOCO2	63	Bare Ground	BAMU	88	Bare Ground	Bare Ground
14	Bare Ground	AF#7	39	Litter	Litter	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Litter	Litter	65	Bare Ground	Bare Ground	90	Bare Ground	Litter
16	Bare Ground	BOCO2	41	Bare Ground	Bare Ground	66	BOCO2	BOCO2	91	Bare Ground	AF#11
17	AF#7	AF#7	42	Bare Ground	BOCO2	67	Bare Ground	BOCO2	92	Bare Ground	Woody Litter
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	BOCO2	BOCO2	93	Bare Ground	Woody Litter
19	Bare Ground	BOCO2	44	Bare Ground	Bare Ground	69	BOCO2	BOCO2	94	Bare Ground	Bare Ground
20	Litter	BAMU	45	Bare Ground	Bare Ground	70	Litter	BOAR	95	Bare Ground	Bare Ground
21	Litter	Liter	46	Bare Ground	Bare Ground	71	Bare Ground	DESCU	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	CRCR3	72	Bare Ground	BOAR	97	Bare Ground	Bare Ground
23	Litter	BOCO2	48	Litter	BOCO2	73	AMAC	AMAC	98	Bare Ground	Bare Ground
24	Bare Ground	CRCR3	49	AMAC	AMAC	74	Litter	Litter	99	Bare Ground	Bare Ground
25	Litter	AF#7	50	Bare Ground	TILA2	75	Litter	Litter	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	2
YUEL	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R34

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Litter	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Bare Ground	BOCO2
2	Litter	AF#7	27	Bare Ground	BOAR	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Litter	Litter	53	Bare Ground	Bare Ground	78	BOAR	BOCO2
4	Bare Ground	Litter	29	Litter	Litter	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Bare Ground	Bare Ground	30	Bare Ground	AF#11	55	Bare Ground	Bare Ground	80	Bare Ground	BOCO2
6	Bare Ground	Bare Ground	31	Bare Ground	Bare Ground	56	Litter	Litter	81	Bare Ground	Bare Ground
7	Bare Ground	Bare Ground	32	Litter	BAMU	57	Litter	Litter	82	Bare Ground	Bare Ground
8	Bare Ground	AF#11	33	Bare Ground	Bare Ground	58	Bare Ground	EPTR	83	Bare Ground	Bare Ground
9	BAMU	BAMU	34	Bare Ground	Woody Litter	59	Bare Ground	Bare Ground	84	Bare Ground	BOCO2
10	Bare Ground	Bare Ground	35	BOCO2	BOCO2	60	Bare Ground	Bare Ground	85	Bare Ground	Bare Ground
11	Litter	DESCU	36	Bare Ground	BOCO2	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Litter	BAMU	37	BOCO2	BOCO2	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	BAMU	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	BOCO2
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	AMAC	AMAC	89	Bare Ground	Bare Ground
15	Litter	Litter	40	Bare Ground	BOAR	65	Litter	BOCO2	90	Bare Ground	Bare Ground
16	AF#7	BOCO2	41	Litter	PSSC6	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Litter	Litter	67	Bare Ground	Bare Ground	92	PSSC6	PSSC6
18	Litter	BOCO2	43	Litter	Litter	68	Woody Litter	BOCO2	93	Bare Ground	Bare Ground
19	Litter	AF#7	44	SATR12	SATR12	69	Litter	PSSC6	94	Bare Ground	Bare Ground
20	Litter	TILA2	45	Litter	Litter	70	Litter	PSSC6	95	Bare Ground	Bare Ground
21	Litter	Litter	46	Bare Ground	Bare Ground	71	Litter	Litter	96	Bare Ground	PSSC6
22	Woody Litter	Woody Litter	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	PSSC6
23	Litter	PSSC6	48	Bare Ground	Bare Ground	73	Litter	PSSC6	98	Bare Ground	Bare Ground
24	Bare Ground	PSSC6	49	Bare Ground	Bare Ground	74	Litter	PSSC6	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	AF#7	DESCU	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	11
EPTR	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R35

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	Litter	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Litter	PSSC6
2	Bare Ground	DESCU	27	Bare Ground	Bare Ground	52	BOAR	BOAR	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	BOCO2	78	Bare Ground	Bare Ground
4	BOCO2	BOCO2	29	Bare Ground	Bare Ground	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Litter	Litter	30	Bare Ground	Woody Litter	55	Bare Ground	Woody Litter	80	Bare Ground	Bare Ground
6	BOAR	BOCO2	31	Litter	BOCO2	56	Bare Ground	Bare Ground	81	Bare Ground	PSSC6
7	Bare Ground	AF#11	32	Bare Ground	Bare Ground	57	Bare Ground	PSSC6	82	PSSC6	PSSC6
8	Litter	AMAC	33	AF#11	BOCO2	58	Litter	SATR12	83	Bare Ground	Bare Ground
9	Litter	Litter	34	Bare Ground	Woody Litter	59	Litter	Litter	84	Litter	DESCU
10	Litter	Litter	35	Bare Ground	PECTI	60	Bare Ground	PSSC6	85	Litter	Litter
11	Litter	DESCU	36	Bare Ground	BOCO2	61	Bare Ground	BOCO2	86	Litter	SATR12
12	Litter	Litter	37	Bare Ground	Bare Ground	62	Litter	Litter	87	Bare Ground	Bare Ground
13	BOAR	BOAR	38	Bare Ground	DESCU	63	Bare Ground	Bare Ground	88	Bare Ground	PSSC6
14	Bare Ground	DESCU	39	Bare Ground	Bare Ground	64	BOAR	TILA2	89	PSSC6	PSSC6
15	Bare Ground	Bare Ground	40	Bare Ground	AF#11	65	Litter	Litter	90	Bare Ground	PSSC6
16	Litter	BOAR	41	Bare Ground	BOAR	66	SATR12	PSSC6	91	Bare Ground	Bare Ground
17	Litter	Litter	42	Litter	BOAR	67	DESCU	DIWI2	92	Bare Ground	Bare Ground
18	Litter	BOAR	43	Bare Ground	Bare Ground	68	Litter	DESCU	93	Bare Ground	PSSC6
19	Bare Ground	Bare Ground	44	AF#7	DESCU	69	Litter	AMAC	94	Litter	PSSC6
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	Woody Litter	95	Litter	PSSC6
21	Bare Ground	Litter	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	PSSC6
22	Bare Ground	Bare Ground	47	BOCO2	BOCO2	72	Bare Ground	BOCO2	97	Bare Ground	PSSC6
23	Bare Ground	PSSC6	48	Bare Ground	Bare Ground	73	Bare Ground	BOCO2	98	Bare Ground	Bare Ground
24	Bare Ground	PSSC6	49	Bare Ground	Bare Ground	74	Bare Ground	Bare Ground	99	Bare Ground	Bare Ground
25	Litter	DESCU	50	TILA2	TILA2	75	Bare Ground	DESCU	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	15

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R36

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	Litter	26	Litter	EPTR	51	Bare Ground	Bare Ground	76	Bare Ground	AF#7			
2	Bare Ground	BAMU	27	Litter	Litter	52	Litter	BOCO2	77	Litter	DESCU			
3	Litter	BOAR	28	CRCR3	CRCR3	53	Bare Ground	BOCO2	78	Litter	Woody Litter			
4	BOAR	BOAR	29	Litter	Litter	54	BOAR	BOAR	79	Bare Ground	Woody Litter			
5	Bare Ground	BOAR	30	Litter	Litter	55	Bare Ground	BOCO2	80	Bare Ground	BOAR			
6	Bare Ground	BAMU	31	Litter	Litter	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground			
7	Bare Ground	Bare Ground	32	Litter	DESCU	57	Bare Ground	BOCO2	82	Litter	Litter			
8	Bare Ground	Bare Ground	33	DESCU	PSSC6	58	Bare Ground	Bare Ground	83	Litter	Litter			
9	Litter	BOAR	34	PSSC6	PSSC6	59	Litter	Litter	84	Bare Ground	Bare Ground			
10	Litter	Litter	35	Bare Ground	PSSC6	60	Bare Ground	Bare Ground	85	Litter	BOAR			
11	Litter	Litter	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Litter	Litter			
12	DESCU	PSSC6	37	BOAR	BOAR	62	Bare Ground	CHAL11	87	Bare Ground	Litter			
13	PSSC6	PSSC6	38	Bare Ground	TILA2	63	Bare Ground	Bare Ground	88	Bare Ground	BOCO2			
14	Litter	PSSC6	39	Bare Ground	Bare Ground	64	Litter	Litter	89	Bare Ground	Bare Ground			
15	Litter	Litter	40	Bare Ground	BOCO2	65	Litter	AMAC	90	Bare Ground	Bare Ground			
16	AF#7	AF#7	41	Bare Ground	BOCO2	66	Litter	Litter	91	Bare Ground	Bare Ground			
17	Litter	BOAR	42	Litter	PECTI	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground			
18	DESCU	EPTR	43	DESCU	Woody Litter	68	BOAR	AMAC	93	Bare Ground	Bare Ground			
19	EPTR	DIWI2	44	Litter	Woody Litter	69	Woody Litter	Woody Litter	94	Litter	Litter			
20	DESCU	DESCU	45	Bare Ground	DESCU	70	Litter	Woody Litter	95	Litter	Litter			
21	Litter	Woody Litter	46	Litter	Litter	71	Bare Ground	BOAR	96	Litter	Litter			
22	Bare Ground	BOAR	47	Litter	BOCO2	72	Litter	Litter	97	Bare Ground	Bare Ground			
23	Litter	Litter	48	Litter	BOAR	73	Bare Ground	Bare Ground	98	Litter	BOAR			
24	Bare Ground	BOAR	49	Bare Ground	Bare Ground	74	Litter	Litter	99	Bare Ground	Bare Ground			
25	Litter	DESCU	50	Litter	AMAC	75	Bare Ground	Bare Ground	100	Bare Ground	Bare Ground			

Shrub Density

Species	Count
PSSC6	5
EPTR	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/24/20

Location Reference Site

Transect R37

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Litter	51	Bare Ground	Bare Ground	76	Litter	BOCO2
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	BOAR	DESCU
4	Bare Ground	Bare Ground	29	Litter	DESCU	54	Bare Ground	Bare Ground	79	Woody Litter	DESCU
5	Bare Ground	Bare Ground	30	Litter	Litter	55	Bare Ground	Woody Litter	80	YUEL	YUEL
6	Bare Ground	AMAC	31	Bare Ground	DESCU	56	Bare Ground	AMAC	81	Litter	Woody Litter
7	Litter	Woody Litter	32	Bare Ground	Bare Ground	57	Bare Ground	AMAC	82	Bare Ground	Woody Litter
8	Bare Ground	BOCO2	33	AMAC	AMAC	58	Bare Ground	BOCO2	83	Bare Ground	Woody Litter
9	Bare Ground	BOCO2	34	Bare Ground	Bare Ground	59	AMAC	AMAC	84	Litter	Woody Litter
10	Bare Ground	BOCO2	35	Bare Ground	Bare Ground	60	Bare Ground	AMAC	85	Bare Ground	Woody Litter
11	Litter	BOAR	36	BOCO2	BOCO2	61	Bare Ground	AMAC	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	SATR12	62	Bare Ground	Bare Ground	87	Bare Ground	DESCU
13	Litter	CHPR6	38	Bare Ground	SATR12	63	Bare Ground	PSSC6	88	DESCU	DESCU
14	Litter	Litter	39	Bare Ground	Woody Litter	64	Bare Ground	Bare Ground	89	Litter	EPTR
15	Bare Ground	PSSC6	40	Woody Litter	PSSC6	65	Bare Ground	Bare Ground	90	Bare Ground	EPTR
16	Bare Ground	Bare Ground	41	Bare Ground	PSSC6	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	AF#8	AF#8	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	EPTR
18	Litter	BOAR	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	AMAC	AMAC	70	BOAR	BOCO2	95	Bare Ground	Bare Ground
21	Bare Ground	Woody Litter	46	Bare Ground	Bare Ground	71	Bare Ground	Woody Litter	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	AMAC	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Litter	Litter	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Litter	49	Bare Ground	Bare Ground	74	Bare Ground	DESCU	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	Bare Ground	75	Bare Ground	AMAC	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	7
EPTR	3
YUEL	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/19/20

Location Reference Site

Transect R39

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	PSSC6	PSSC6
2	Litter	Litter	27	Litter	Woody Litter	52	Bare Ground	Bare Ground	77	Litter	PSSC6
3	Bare Ground	Bare Ground	28	Bare Ground	Woody Litter	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Bare Ground	Bare Ground	29	Litter	DESCU	54	Bare Ground	BOCO2	79	DESCU	DESCU
5	Bare Ground	SATR11	30	Litter	DESCU	55	Bare Ground	Bare Ground	80	Bare Ground	Woody Litter
6	Bare Ground	DESCU	31	Litter	DESCU	56	Bare Ground	BOCO2	81	SATR11	SATR11
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Litter	Litter	82	SATR11	SATR11
8	Bare Ground	Bare Ground	33	AMAC	DESCU	58	Bare Ground	Bare Ground	83	Litter	Litter
9	Bare Ground	Bare Ground	34	Litter	DESCU	59	Bare Ground	Bare Ground	84	DESCU	DESCU
10	Bare Ground	Bare Ground	35	Litter	DESCU	60	Bare Ground	Bare Ground	85	Bare Ground	DESCU
11	Bare Ground	Bare Ground	36	Bare Ground	BOCO2	61	Bare Ground	BOCO2	86	Bare Ground	Woody Litter
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	BOCO2	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Litter	Litter	63	Bare Ground	BOCO2	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	SATR11	SATR11	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	Bare Ground	Bare Ground	41	BOCO2	BOCO2	66	Bare Ground	Bare Ground	91	Bare Ground	Litter
17	BOCO2	BOCO2	42	Bare Ground	BOCO2	67	Bare Ground	Bare Ground	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	BOCO2	68	AMAC	DESCU	93	Bare Ground	Bare Ground
19	Bare Ground	BOCO2	44	Bare Ground	BOCO2	69	AMAC	BOCO2	94	Bare Ground	AMAC
20	BOCO2	BOCO2	45	Bare Ground	BOCO2	70	Bare Ground	BOCO2	95	Bare Ground	Bare Ground
21	Bare Ground	BOCO2	46	Bare Ground	BOCO2	71	Bare Ground	Bare Ground	96	Bare Ground	Woody Litter
22	Bare Ground	Bare Ground	47	Bare Ground	BOCO2	72	Bare Ground	AMAC	97	Bare Ground	Litter
23	Bare Ground	BOCO2	48	BOCO2	BOCO2	73	Bare Ground	Bare Ground	98	Litter	AMAC
24	Bare Ground	CHMI7	49	Bare Ground	BOCO2	74	DESCU	PSSC6	99	Bare Ground	AMAC
25	Bare Ground	BOCO2	50	Bare Ground	Bare Ground	75	Litter	PSSC6	100	Bare Ground	Litter

Shrub Density

Species	Count
PSSC6	3
EPTR	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/19/20

Location Reference Site

Transect R39

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	DESCU	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	PSSC6	PSSC6
2	Bare Ground	DESCU	27	Bare Ground	Bare Ground	52	Bare Ground	BOAR	77	PSSC6	PSSC6
3	Bare Ground	DESCU	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Bare Ground	AMAC
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Bare Ground	BOAR	79	Bare Ground	AMAC
5	Bare Ground	Bare Ground	30	Bare Ground	Bare Ground	55	Bare Ground	BOCO2	80	Bare Ground	AMAC
6	Bare Ground	DESCU	31	AMAC	PSSC6	56	Bare Ground	Bare Ground	81	Bare Ground	DESCU
7	Bare Ground	DESCU	32	PSSC6	PSSC6	57	Bare Ground	AMAC	82	Bare Ground	DESCU
8	Bare Ground	SATR12	33	AMAC	PSSC6	58	Bare Ground	BOAR	83	Litter	Litter
9	Litter	Litter	34	Bare Ground	PSSC6	59	AMAC	AMAC	84	Bare Ground	Bare Ground
10	Bare Ground	BOCO2	35	Bare Ground	Bare Ground	60	Bare Ground	BOAR	85	Litter	Litter
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	PSSC6
12	Bare Ground	PSSC6	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Litter	Litter
13	Bare Ground	DESCU	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Litter	PSSC6	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Litter	Litter
15	Litter	PSSC6	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Litter	PSSC6
16	Bare Ground	PSSC6	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	PSSC6	PSSC6
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	DESCU	PSSC6	92	Litter	DESCU
18	Bare Ground	Bare Ground	43	Bare Ground	Bare Ground	68	PSSC6	PSSC6	93	Litter	Litter
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	DESCU	PSSC6	94	Litter	Litter
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Litter	DESCU
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	AMAC	72	Litter	Litter	97	Litter	Litter
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Litter	Litter	98	Litter	DESCU
24	Bare Ground	Bare Ground	49	Bare Ground	PSSC6	74	Bare Ground	Bare Ground	99	Litter	Litter
25	Bare Ground	Bare Ground	50	Litter	PSSC6	75	Litter	Litter	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	19
EPTR	1

Project 2019-029B Deming Mill

Sampler Lara Date 11/19/20

Location Reference Site

Transect R40

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Litter	Litter
2	Bare Ground	Woody Litter	27	Bare Ground	Bare Ground	52	Bare Ground	Bare Ground	77	Bare Ground	Bare Ground
3	Bare Ground	AF#7	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Litter	Litter
4	Bare Ground	BOCO2	29	Bare Ground	DESCU	54	Bare Ground	Bare Ground	79	Litter	Litter
5	Bare Ground	BOCO2	30	Litter	Litter	55	Bare Ground	AMAC	80	Litter	Litter
6	Bare Ground	Bare Ground	31	Bare Ground	AMAC	56	Bare Ground	BOAR	81	Litter	Litter
7	Bare Ground	BOCO2	32	Bare Ground	AMAC	57	Bare Ground	BOAR	82	Litter	DESCU
8	Bare Ground	BOCO2	33	Bare Ground	AMAC	58	Bare Ground	BOAR	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Bare Ground	DESCU	84	Litter	DESCU
10	Bare Ground	Bare Ground	35	BOCO2	PSSC6	60	Bare Ground	Bare Ground	85	Litter	DESCU
11	Bare Ground	SATR12	36	Litter	Litter	61	Bare Ground	Bare Ground	86	Bare Ground	AF#7
12	AF#7	AF#7	37	Bare Ground	AF#8	62	TILA2	TILA2	87	Bare Ground	Bare Ground
13	Bare Ground	SATR12	38	Bare Ground	Bare Ground	63	Bare Ground	DESCU	88	Bare Ground	Bare Ground
14	Litter	PSSC6	39	Litter	Litter	64	Bare Ground	Woody Litter	89	Bare Ground	Bare Ground
15	Litter	Woody Litter	40	Bare Ground	Bare Ground	65	Bare Ground	Bare Ground	90	Litter	Litter
16	Litter	Litter	41	BOCO2	BOCO2	66	Bare Ground	Bare Ground	91	Litter	Litter
17	Bare Ground	AMAC	42	Bare Ground	AMAC	67	Bare Ground	Bare Ground	92	Litter	BOAR
18	Litter	Litter	43	Bare Ground	Bare Ground	68	Bare Ground	Bare Ground	93	Litter	Litter
19	Bare Ground	Bare Ground	44	Litter	DESCU	69	TILA2	TILA2	94	Litter	Litter
20	DESCU	PSSC6	45	Litter	DESCU	70	Bare Ground	DESCU	95	Litter	Litter
21	PSSC6	PSSC6	46	Bare Ground	BOCO2	71	Bare Ground	DESCU	96	Litter	AF#7
22	PSSC6	PSSC6	47	Bare Ground	AMAC	72	Litter	Litter	97	Litter	AF#7
23	DESCU	PSSC6	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Litter	Litter
24	Bare Ground	SATR12	49	Bare Ground	AMAC	74	Bare Ground	DESCU	99	Litter	AF#7
25	Bare Ground	DESCU	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Litter	Litter

Shrub Density

Species	Count
EPTR	3
PSSC6	6

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/24/20

Location Reference Site

Transect R41

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	Bare Ground	51	Bare Ground	Bare Ground	76	Litter	Litter
2	Bare Ground	AFI7	27	Bare Ground	Bare Ground	52	Bare Ground	Litter	77	Bare Ground	Bare Ground
3	Litter	TILA2	28	Bare Ground	PSSC6	53	Bare Ground	AMAC	78	Bare Ground	Litter
4	Bare Ground	TILA2	29	DESCU	PSSC6	54	Litter	Woody Litter	79	Bare Ground	Bare Ground
5	Bare Ground	Litter	30	Bare Ground	Bare Ground	55	Bare Ground	Woody Litter	80	Bare Ground	BOAR
6	Bare Ground	Bare Ground	31	Litter	Litter	56	Bare Ground	PSSC6	81	Bare Ground	Bare Ground
7	Bare Ground	PSSC6	32	Bare Ground	BOCO2	57	CRCR3	CRCR3	82	Litter	DESCU
8	Bare Ground	Bare Ground	33	Litter	DESCU	58	Bare Ground	Litter	83	Litter	SATR12
9	Bare Ground	Bare Ground	34	Bare Ground	Bare Ground	59	Litter	DESCU	84	Litter	PSSC6
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Litter	DESCU	85	AMAC	AMAC
11	Bare Ground	Bare Ground	36	Litter	SATR12	61	AMAC	AMAC	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	AMAC	AMAC	87	Bare Ground	Bare Ground
13	Bare Ground	Liter	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Woody Litter
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Litter	PSSC6	40	Bare Ground	DESCU	65	Bare Ground	Bare Ground	90	Bare Ground	Bare Ground
16	DESCU	PSSC6	41	Bare Ground	Woody Litter	66	Bare Ground	Bare Ground	91	Bare Ground	Woody Litter
17	Bare Ground	PSSC6	42	Bare Ground	AMAC	67	Bare Ground	DESCU	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	Litter	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	AMAC	AMAC	69	Bare Ground	Bare Ground	94	Bare Ground	Litter
20	Bare Ground	Woody Litter	45	Bare Ground	Bare Ground	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	BOCO2	46	AMAC	BOCO2	71	Bare Ground	Woody Litter	96	Bare Ground	Bare Ground
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	PSSC6	PSSC6	97	Bare Ground	Bare Ground
23	Bare Ground	AMAC	48	Bare Ground	BOCO2	73	Woody Litter	PSSC6	98	Bare Ground	Litter
24	Litter	DESCU	49	Bare Ground	Woody Litter	74	Litter	Litter	99	Bare Ground	Bare Ground
25	Bare Ground	DESCU	50	Bare Ground	Bare Ground	75	Litter	Litter	100	Bare Ground	Litter

Shrub Density

Species	Count
EPTR	7
PSSC6	12

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/19/20

Location Reference Site

Transect R42

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	BOAR	26	Bare Ground	BAMU	51	Bare Ground	Bare Ground	76	Litter	Litter
2	Bare Ground	BOAR	27	Bare Ground	BOAR	52	Bare Ground	Bare Ground	77	Bare Ground	DESCU
3	Bare Ground	BOAR	28	Litter	Litter	53	Bare Ground	TILA2	78	Bare Ground	DESCU
4	CHMI7	CHMI7	29	Bare Ground	BOAR	54	Bare Ground	Bare Ground	79	Bare Ground	Bare Ground
5	Litter	Litter	30	AF#7	AF#7	55	Bare Ground	CRCR3	80	BOCO2	BOCO2
6	PECTI	PECTI	31	Litter	BAMU	56	CHPR6	CHPR6	81	Litter	YUEL
7	Bare Ground	Bare Ground	32	Bare Ground	Bare Ground	57	Bare Ground	DESCU	82	Bare Ground	Bare Ground
8	Bare Ground	AF#7	33	Bare Ground	BOCO2	58	Bare Ground	DESCU	83	Bare Ground	Bare Ground
9	Bare Ground	AF#7	34	Bare Ground	Bare Ground	59	DESCU	PSSC6	84	Bare Ground	PSSC6
10	Bare Ground	DESCU	35	Bare Ground	Bare Ground	60	TILA2	BOCO2	85	Bare Ground	PSSC6
11	Bare Ground	BOAR	36	BOCO2	BOCO2	61	Bare Ground	BOCO2	86	Bare Ground	Bare Ground
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	BOCO2	38	Bare Ground	CRCR3	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Litter	Litter	39	Bare Ground	Bare Ground	64	Bare Ground	DAPU7	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	Bare Ground	BOAR	65	Bare Ground	TILA2	90	Bare Ground	Bare Ground
16	TILA2	PSSC6	41	Bare Ground	Bare Ground	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Litter	PSSC6	42	Bare Ground	Bare Ground	67	Bare Ground	Bare Ground	92	Bare Ground	TILA2
18	Bare Ground	Bare Ground	43	Bare Ground	CRCR3	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	AF#9	DESCU	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	Litter	DESCU
20	Bare Ground	Bare Ground	45	Bare Ground	Bare Ground	70	Bare Ground	BOCO2	95	Litter	Litter
21	Bare Ground	DESCU	46	Bare Ground	Bare Ground	71	AMAC	AMAC	96	Bare Ground	Bare Ground
22	Litter	DESCU	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	DESCU
23	AF#7	DESCU	48	Bare Ground	Bare Ground	73	Bare Ground	BOAR	98	Litter	DESCU
24	Bare Ground	BAMU	49	AMAC	DESCU	74	Bare Ground	BOAR	99	Litter	Litter
25	Bare Ground	CRCR3	50	Bare Ground	Bare Ground	75	Bare Ground	Bare Ground	100	Litter	Litter

Shrub Density

Species	Count
PSSC6	5
YUEL	1

Project 2019-029B Deming Mill

Sampler Lara **Date** 11/20/20

Location Reference Site

Transect R43

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Litter	Litter	51	Bare Ground	Bare Ground	76	Litter	Litter
2	BOAR	BOCO2	27	Litter	BAMU	52	AF#7	DESCU	77	Litter	AF#7
3	Bare Ground	Bare Ground	28	Bare Ground	BOCO2	53	Litter	AMAC	78	Litter	DESCU
4	Bare Ground	Bare Ground	29	Bare Ground	Bare Ground	54	Bare Ground	BOAR	79	Bare Ground	BOAR
5	Litter	AF#7	30	BAMU	DESCU	55	Bare Ground	BOAR	80	Bare Ground	BOBA2
6	Litter	AF#7	31	Bare Ground	Bare Ground	56	Bare Ground	AF#7	81	Bare Ground	Bare Ground
7	Bare Ground	AF#7	32	Bare Ground	DESCU	57	Litter	Litter	82	Litter	DESCU
8	Bare Ground	Bare Ground	33	Bare Ground	Bare Ground	58	Bare Ground	AF#7	83	TILA2	DESCU
9	Bare Ground	AF#7	34	Litter	BOAR	59	Bare Ground	BOCO2	84	Bare Ground	Bare Ground
10	Litter	AF#7	35	Bare Ground	BOAR	60	Bare Ground	Bare Ground	85	Bare Ground	Bare Ground
11	BOAR	BOAR	36	Litter	BOAR	61	Bare Ground	BOCO2	86	Bare Ground	BOCO2
12	Bare Ground	PSSC6	37	Litter	BOAR	62	Litter	Litter	87	Bare Ground	TILA2
13	Litter	PSSC6	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Litter	Litter	39	Litter	DESCU	64	AF#7	AF#7	89	Bare Ground	BOCO2
15	Bare Ground	Bare Ground	40	Litter	BAMU	65	Bare Ground	AF#7	90	Bare Ground	BAMU
16	Litter	Litter	41	BOAR	BOAR	66	Litter	SATR12	91	Bare Ground	BAMU
17	Litter	AF#7	42	BOAR	DESCU	67	Bare Ground	SATR12	92	Bare Ground	Bare Ground
18	Litter	BOAR	43	Litter	Litter	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	Bare Ground	69	Bare Ground	Bare Ground	94	BAMU	BAMU
20	Bare Ground	Bare Ground	45	Litter	Litter	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	Bare Ground	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	Bare Ground
22	Bare Ground	Woody Litter	47	Bare Ground	Bare Ground	72	Bare Ground	BOCO2	97	Bare Ground	Bare Ground
23	Bare Ground	BOCO2	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	Bare Ground
24	Bare Ground	Bare Ground	49	Woody Litter	Woody Litter	74	Bare Ground	Bare Ground	99	Bare Ground	CRCR3
25	Litter	BOAR	50	Bare Ground	Bare Ground	75	Litter	Litter	100	Litter	Litter

Shrub Density

Species	Count
EPTR	1
PSSC6	5

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R44

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Litter	DESCU	26	DESCU	DESCU	51	Woody Litter	Woody Litter	76	TILA2	TILA2
2	Litter	Litter	27	Bare Ground	Bare Ground	52	Litter	Litter	77	Litter	Litter
3	Bare Ground	Bare Ground	28	Litter	DESCU	53	Bare Ground	Bare Ground	78	Litter	BOCO2
4	Bare Ground	BOCO2	29	DESCU	DESCU	54	Bare Ground	Bare Ground	79	Litter	Litter
5	Litter	Litter	30	Litter	DESCU	55	Bare Ground	DESCU	80	Litter	Litter
6	BOCO2	DESCU	31	Bare Ground	BAMU	56	CHMI7	CHMI7	81	Litter	DESCU
7	Litter	BOCO2	32	Bare Ground	BOCO2	57	Bare Ground	AMAC	82	Litter	Litter
8	Litter	BOCO2	33	BOCO2	BOCO2	58	Bare Ground	BOAR	83	Litter	DESCU
9	Bare Ground	BOCO2	34	Bare Ground	BOCO2	59	BOAR	AMAC	84	Bare Ground	BOAR
10	Bare Ground	Bare Ground	35	Bare Ground	Bare Ground	60	Bare Ground	BOCO2	85	Litter	BOCO2
11	Bare Ground	BOCO2	36	Litter	DESCU	61	Bare Ground	Bare Ground	86	Bare Ground	Bare Ground
12	Bare Ground	AF#7	37	Litter	DESCU	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	Bare Ground	Bare Ground	63	Bare Ground	Bare Ground	88	Bare Ground	DIWI2
14	Bare Ground	Litter	39	BOAR	DESCU	64	AMAC	DESCU	89	Bare Ground	Bare Ground
15	Bare Ground	Bare Ground	40	AF#7	DESCU	65	Litter	TILA2	90	Bare Ground	TILA2
16	Litter	CHMI7	41	Litter	DESCU	66	Bare Ground	Bare Ground	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Litter	DESCU	67	Litter	SATR12	92	AMAC	AMAC
18	BOAR	BOCO2	43	Bare Ground	BOAR	68	DESCU	DESCU	93	Woody Litter	Woody Litter
19	Bare Ground	Bare Ground	44	Litter	AF#7	69	DESCU	PSSC6	94	AMAC	AMAC
20	PECTI	PECTI	45	Bare Ground	Bare Ground	70	PSSC6	PSSC6	95	Bare Ground	AMAC
21	Litter	DESCU	46	Litter	DESCU	71	Bare Ground	PSSC6	96	BOCO2	BOCO2
22	Litter	AMAC	47	Litter	Litter	72	Bare Ground	Bare Ground	97	Litter	TILA2
23	Bare Ground	CHMI7	48	DESCU	EPTR	73	Bare Ground	Bare Ground	98	SATR12	SATR12
24	Bare Ground	CHMI7	49	Litter	EPTR	74	Bare Ground	AMAC	99	Bare Ground	Bare Ground
25	Litter	DESCU	50	Woody Litter	Woody Litter	75	Bare Ground	Bare Ground	100	Litter	Litter

Shrub Density

Species	Count
PSSC6	5
EPTR	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R45

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	TILA2	51	Bare Ground	Bare Ground	76	DESCU	DESCU
2	Bare Ground	Bare Ground	27	Bare Ground	AF#11	52	Bare Ground	TILA2	77	Litter	DESCU
3	Bare Ground	Bare Ground	28	Bare Ground	Bare Ground	53	BOCO2	BOCO2	78	Litter	Litter
4	Bare Ground	TILA2	29	Bare Ground	Bare Ground	54	Bare Ground	TILA2	79	Litter	Litter
5	Bare Ground	BAMU	30	Bare Ground	BOCO2	55	Bare Ground	AMAC	80	Litter	Litter
6	BOAR	BOAR	31	TILA2	TILA2	56	Litter	DESCU	81	Litter	PSSC6
7	Bare Ground	AF#11	32	BOCO2	BOCO2	57	Bare Ground	BOCO2	82	Litter	PSSC6
8	Bare Ground	Bare Ground	33	Bare Ground	BOCO2	58	Bare Ground	Bare Ground	83	Bare Ground	Bare Ground
9	Bare Ground	Bare Ground	34	Bare Ground	BOCO2	59	Bare Ground	Bare Ground	84	Litter	PSSC6
10	Bare Ground	TILA2	35	Bare Ground	Bare Ground	60	Bare Ground	Bare Ground	85	PSSC6	PSSC6
11	Bare Ground	Bare Ground	36	Bare Ground	Bare Ground	61	Bare Ground	Bare Ground	86	Bare Ground	AMAC
12	Bare Ground	BAMU	37	Bare Ground	Bare Ground	62	Bare Ground	Bare Ground	87	Bare Ground	BOCO2
13	Bare Ground	Bare Ground	38	TILA2	AF#7	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	BOAR	AF#11	39	Bare Ground	TILA2	64	Litter	DESCU	89	Bare Ground	AMAC
15	Bare Ground	TILA2	40	TILA2	TILA2	65	Litter	AMAC	90	Bare Ground	BOCO2
16	Bare Ground	BOCO2	41	Bare Ground	TILA2	66	Litter	DESCU	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	Bare Ground	BOCO2	92	Bare Ground	Bare Ground
18	Bare Ground	BAMU	43	Litter	Litter	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	Bare Ground	BOCO2	44	Bare Ground	BOCO2	69	Bare Ground	Bare Ground	94	Bare Ground	Bare Ground
20	Bare Ground	Bare Ground	45	Bare Ground	BOCO2	70	Bare Ground	Bare Ground	95	Bare Ground	Bare Ground
21	Bare Ground	BOCO2	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Bare Ground	BOAR
22	Bare Ground	Bare Ground	47	Bare Ground	Bare Ground	72	Bare Ground	Bare Ground	97	Bare Ground	Bare Ground
23	Bare Ground	BOCO2	48	SATR12	SATR12	73	Litter	Litter	98	Bare Ground	Woody Litter
24	Bare Ground	Bare Ground	49	Bare Ground	Bare Ground	74	AMAC	DESCU	99	Bare Ground	Woody Litter
25	Bare Ground	BOCO2	50	Bare Ground	BAMU	75	Litter	Litter	100	Bare Ground	Bare Ground

Shrub Density

Species	Count
PSSC6	5
EPTR	2

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R46

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	TILA2	51	Bare Ground	DAPU7	76	Bare Ground	DESCU
2	Bare Ground	AF#11	27	Bare Ground	TILA2	52	Bare Ground	Bare Ground	77	Bare Ground	BOCO2
3	Bare Ground	DESCU	28	Bare Ground	Bare Ground	53	Bare Ground	Bare Ground	78	Bare Ground	Bare Ground
4	Bare Ground	DESCU	29	Litter	Litter	54	Bare Ground	BOCO2	79	Bare Ground	Bare Ground
5	Litter	Litter	30	Bare Ground	Bare Ground	55	Bare Ground	Bare Ground	80	Bare Ground	Bare Ground
6	Litter	Litter	31	Bare Ground	Bare Ground	56	Bare Ground	Bare Ground	81	Bare Ground	Bare Ground
7	AF#11	AF#11	32	Bare Ground	Bare Ground	57	Bare Ground	Bare Ground	82	Bare Ground	BOCO2
8	Bare Ground	TILA2	33	Bare Ground	BOCO2	58	Bare Ground	Bare Ground	83	Bare Ground	BOCO2
9	Litter	Litter	34	Bare Ground	TILA2	59	AMAC	AMAC	84	Bare Ground	Bare Ground
10	Bare Ground	BOCO2	35	Litter	BOCO2	60	Litter	Litter	85	BOCO2	BOCO2
11	Bare Ground	Bare Ground	36	Bare Ground	BOCO2	61	Litter	Litter	86	Bare Ground	BOCO2
12	Bare Ground	Bare Ground	37	Bare Ground	Bare Ground	62	DAPU7	DAPU7	87	Bare Ground	Bare Ground
13	Bare Ground	Bare Ground	38	AF#11	AF#11	63	Bare Ground	Bare Ground	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Bare Ground	Bare Ground	64	Bare Ground	Bare Ground	89	Bare Ground	Bare Ground
15	Bare Ground	BOCO2	40	Litter	Litter	65	Bare Ground	BOCO2	90	Bare Ground	BOCO2
16	Bare Ground	BOCO2	41	Bare Ground	AF#11	66	Litter	Litter	91	Bare Ground	Bare Ground
17	Bare Ground	BOCO2	42	Bare Ground	BOCO2	67	Litter	Litter	92	Bare Ground	Bare Ground
18	Bare Ground	Bare Ground	43	Bare Ground	BOCO2	68	Litter	BOCO2	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Bare Ground	BOCO2	69	Bare Ground	BOCO2	94	Bare Ground	BOCO2
20	Bare Ground	Bare Ground	45	Bare Ground	BOAR	70	BAMU	BAMU	95	Bare Ground	BOCO2
21	AF#11	AF#11	46	Litter	Litter	71	Bare Ground	Bare Ground	96	Bare Ground	BOCO2
22	Bare Ground	BOCO2	47	Litter	Litter	72	Bare Ground	BOCO2	97	Bare Ground	Bare Ground
23	Bare Ground	Bare Ground	48	Bare Ground	Bare Ground	73	Bare Ground	Bare Ground	98	Bare Ground	BOCO2
24	BAMU	BAMU	49	Bare Ground	Bare Ground	74	Bare Ground	BOAR	99	Bare Ground	Bare Ground
25	BAMU	BAMU	50	Bare Ground	BOCO2	75	Bare Ground	BOCO2	100	Bare Ground	BOCO2

Shrub Density

Species	Count
PSSC6	1
GUSA2	1

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R47

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	AF#11	51	Litter	DESCU	76	Litter	Litter
2	Bare Ground	Bare Ground	27	Bare Ground	Bare Ground	52	Litter	TILA2	77	DESCU	PSSC6
3	Bare Ground	AF#7	28	Bare Ground	BOAR	53	Bare Ground	BOAR	78	PSSC6	PSSC6
4	Litter	Litter	29	Litter	Litter	54	Bare Ground	BOAR	79	AF#7	DESCU
5	Litter	AF#7	30	Litter	BOAR	55	Litter	Litter	80	AF#7	DESCU
6	Litter	AF#7	31	AF#11	AF#11	56	Bare Ground	Bare Ground	81	Litter	AF#7
7	Bare Ground	Bare Ground	32	Litter	Woody Litter	57	Bare Ground	BOCO2	82	BOAR	DESCU
8	Bare Ground	Bare Ground	33	Bare Ground	Woody Litter	58	Litter	AF#7	83	EPTR	DESCU
9	Bare Ground	Bare Ground	34	Bare Ground	Woody Litter	59	Bare Ground	Bare Ground	84	Bare Ground	Bare Ground
10	AF#11	AF#11	35	AF#7	BAMU	60	BOAR	BOAR	85	Bare Ground	Bare Ground
11	AF#11	AF#11	36	AF#11	BOCO2	61	BAMU	BAMU	86	Bare Ground	Bare Ground
12	AF#11	AF#11	37	Bare Ground	Bare Ground	62	Bare Ground	BOCO2	87	Bare Ground	Bare Ground
13	Bare Ground	AF#11	38	Bare Ground	BOAR	63	Bare Ground	BOAR	88	Bare Ground	Bare Ground
14	AF#7	AF#7	39	Litter	Litter	64	BOAR	BOCO2	89	Litter	DESCU
15	Litter	AF#7	40	Bare Ground	Bare Ground	65	Bare Ground	BOAR	90	Litter	Litter
16	Litter	Litter	41	Bare Ground	Bare Ground	66	BOAR	AF#7	91	Bare Ground	Bare Ground
17	Bare Ground	Bare Ground	42	Bare Ground	Bare Ground	67	BOAR	BOAR	92	Bare Ground	Litter
18	Bare Ground	Bare Ground	43	Bare Ground	PECTI	68	Bare Ground	Bare Ground	93	Bare Ground	Bare Ground
19	AF#11	AF#11	44	Bare Ground	Bare Ground	69	Bare Ground	BOAR	94	Bare Ground	Litter
20	Bare Ground	BOAR	45	Bare Ground	BOCO2	70	Bare Ground	BOAR	95	Bare Ground	BOCO2
21	Litter	Litter	46	Bare Ground	Bare Ground	71	Bare Ground	Bare Ground	96	Litter	BOCO2
22	Litter	Litter	47	Bare Ground	BOAR	72	BOAR	BOAR	97	Bare Ground	AMAC
23	Litter	TILA2	48	Bare Ground	Bare Ground	73	Bare Ground	BOAR	98	Bare Ground	Litter
24	Litter	AF#7	49	Litter	Litter	74	Bare Ground	PECTI	99	Bare Ground	AMAC
25	Bare Ground	BOCO2	50	Litter	Litter	75	Litter	DESCU	100	Litter	Litter

Shrub Density

Species	Count
EPTR	1
PSSC6	2
GUSA2	1

Project 2019-029B Deming Mill

Sampler Lara Date 11/20/20

Location Reference Site

Transect R48

Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc	Int	Obsb	Obsc
1	Bare Ground	Bare Ground	26	Bare Ground	BOCO2	51	Bare Ground	Bare Ground	76	AF#7	AF#7
2	Bare Ground	GUSA2	27	Bare Ground	BOCO2	52	Litter	Litter	77	Bare Ground	Bare Ground
3	Bare Ground	Bare Ground	28	PECTI	BOCO2	53	Litter	Litter	78	Litter	Litter
4	Bare Ground	BOAR	29	TILA2	AF#7	54	Litter	AF#7	79	AF#7	DESCU
5	Bare Ground	BOAR	30	Litter	AF#7	55	BOAR	BOCO2	80	DESCU	DESCU
6	Litter	BOAR	31	Bare Ground	Bare Ground	56	AF#7	AF#7	81	Woody Litter	Woody Litter
7	Litter	BOAR	32	Bare Ground	Bare Ground	57	Litter	BOAR	82	Woody Litter	Woody Litter
8	Bare Ground	Bare Ground	33	Bare Ground	AF#7	58	Litter	BAMU	83	Bare Ground	BOCO2
9	Litter	Litter	34	Bare Ground	Bare Ground	59	Litter	BOAR	84	Bare Ground	BOCO2
10	Litter	BOAR	35	Litter	BAMU	60	Litter	Litter	85	Bare Ground	Bare Ground
11	Bare Ground	Bare Ground	36	Litter	Litter	61	Bare Ground	Bare Ground	86	Bare Ground	BOAR
12	Litter	BOAR	37	Litter	Litter	62	Bare Ground	Bare Ground	87	Bare Ground	Bare Ground
13	Litter	PECTI	38	BOAR	AF#7	63	Litter	Litter	88	Bare Ground	Bare Ground
14	Bare Ground	Bare Ground	39	Litter	Litter	64	Litter	Litter	89	BOAR	BOAR
15	Bare Ground	BOAR	40	BOAR	AF#7	65	Litter	Litter	90	Bare Ground	BOAR
16	AF#7	BAMU	41	Bare Ground	Bare Ground	66	AF#7	AF#7	91	BOAR	BOAR
17	Litter	Litter	42	Bare Ground	Bare Ground	67	Litter	Litter	92	Litter	DESCU
18	Bare Ground	Bare Ground	43	Bare Ground	AF#11	68	Litter	Litter	93	Bare Ground	Bare Ground
19	Bare Ground	Bare Ground	44	Litter	BOAR	69	Litter	Litter	94	Bare Ground	Bare Ground
20	Bare Ground	Woody Litter	45	Bare Ground	Bare Ground	70	Bare Ground	AF#7	95	Bare Ground	Woody Litter
21	Bare Ground	BOCO2	46	Bare Ground	Bare Ground	71	Bare Ground	AF#7	96	Bare Ground	BOAR
22	Bare Ground	Bare Ground	47	Litter	AF#7	72	Bare Ground	SATR12	97	Litter	Litter
23	Litter	Litter	48	Bare Ground	Bare Ground	73	Litter	Litter	98	Bare Ground	Bare Ground
24	Litter	BAMU	49	Bare Ground	BOCO2	74	Litter	BOAR	99	Bare Ground	Bare Ground
25	Bare Ground	Bare Ground	50	Bare Ground	Bare Ground	75	BOAR	BOAR	100	Litter	Litter

Shrub Density

Species	Count
YUEL	1
PSSC6	2
GUSA2	3
ARFI2	1

APPENDIX C - STATISTICAL ANALYSIS

Appendix C

Sample Adequacy

In order to collect enough data during 2020 to achieve 90% confidence that the sample means for total live cover and shrub density lie within 10% of the true population means, the Cochran (1977) formula was calculated to obtain the minimum number of samples (n_{min}) required to estimate a parameter with this level of precision:

$$n_{\min} = t^2 s^2 / (0.1\bar{x})^2$$

where:

- t is the tabular t value for a preliminary sample with n-1 degrees of freedom and a two-tailed significance level of α = 0.10,
- s is the standard deviation of a preliminary sample, and
- $\bar{x}$ is the sample mean of a preliminary sample.

Because the Cochran formula requires that the underlying data are normally distributed, basal percent cover and shrub density for both the Tailings Site and the Reference Site were transformed (see Data Analysis, Tests of Normality below).

Table C-1. Cochran's n_{min} for percent canopy cover for transects sampled in 2020 at the Tailings Site and the Reference Site.

Sampling area	Parameter	Mean	Standard deviation	t	Cochran's n_{min}
Tailings Site (n = 30)	Canopy cover (%)	0.489	0.090	$1.699_{(df=29,\ p=0.1,\ \text{two-tailed})}$	9.724
	Basal cover (%)	0.133	0.049	$1.699_{(df=29,\ p=0.1,\ \text{two-tailed})}$	11.512*
	Shrub density (shrubs per acre)	1055	824	$1.699_{(df=29,\ p=0.1,\ \text{two-tailed})}$	5.734*
Reference Site (n = 18)	Canopy cover (%)	0.488	0.067	$1.740_{(df=17,\ p=0.1,\ \text{two-tailed})}$	5.788
	Basal cover (%)	0.123	0.034	$1.740_{(df=17,\ p=0.1,\ \text{two-tailed})}$	5.955*
	Shrub density (shrubs per acre)	342	206	$1.740_{(df=17,\ p=0.1,\ \text{two-tailed})}$	3.588*

*Data were transformed for analysis

Table C-1 indicates that a maximum of 12 transects would need to be measured in order to achieve 90% confidence that the sample means for percent canopy cover, percent basal cover, and shrub density for both the Tailings Site and the Reference Site lie within 10% of the true population means.

Tests of Normality

Many of the statistical procedures including correlation, regression, t tests, and analysis of variance (i.e. parametric tests) are based on the assumption that sampled data follow a normal distribution; that is, it is assumed that the populations from which the samples are taken are normally distributed (Driscoll et al. 2000). Thus, the Deming Mill monitoring data were examined graphically and with the Shapiro-Wilk Expanded Test (1965) to assess normality. The Shapiro-Wilk test is based on the correlation (W)

between the data and the corresponding normally distributed set of scores with the same mean and standard deviation. If the test is significant ($p < 0.05$), the distribution is non-normal.

Table C-2. Shapiro-Wilk test of normality. The correlation *W* and test statistic *p* are presented for canopy cover, arcsin square root-transformed basal cover, and log-transformed shrub density.

Sampling area	Parameter	*W*	*p*	Assessment
Tailings Site (n = 30)	Canopy cover (%)	0.955	0.225	normal
	Basal cover (%)*	0.925	0.035	non-normal
	Shrub density (shrubs per acre)*	0.951	0.177	normal
Reference Site (n = 18)	Canopy cover (%)	0.950	0.427	normal
	Basal cover (%)*	0.844	0.007	non-normal
	Shrub Density (shrubs per acre)*	0.969	0.771	normal

*Data were transformed for analysis

Table C-2 indicates that percent canopy cover and log-transformed shrub density exhibit a normal distribution. The distribution for percent basal cover could not be improved through numerical transformation.

Hypothesis Tests

The one-sample, one-sided Student's *t*-test (Neter et al. 1985) was performed to evaluate the 2020 Deming Mill monitoring data against the revegetation success criteria required by MMD Permit LU008RE Mod 18-1. The test compared whether canopy cover at the Tailings Site was equal to or greater than 70% of the canopy cover at the Reference Site and whether log-transformed shrub density at the Tailings Site was equal to or greater than the log of 60% of the shrub density at the Tailings Site. Specifically, the *t*-test evaluated the following mutually exclusive null (H_O) and alternative (H_A) hypotheses:

Canopy cover:
H_O: Tailings Site < 70% Reference Site
H_A: Tailings Site ≥ 70% Reference Site

Shrub density:
H_O: Tailings Site < 60% Reference Site
H_A: Tailings Site ≥ 60% Reference Site

For each set of hypotheses, the parameter estimates were compared to the performance standard using the one-sample, one-sided *t* test:

$$t^* = \frac{\bar{x} - [0.7 \text{ or } 0.6]\ (Reference\ mean)}{s/\sqrt{n}}$$

Where:

t^* is the calculated *t*-statistic,
$\bar{x}$ is the sample mean,
s is the standard deviation of the sample, and

n is the sample size.

The *α*-level of the test is 0.10 by regulation, and the decision rules for testing the reverse null hypothesis are as follows:

if $t^* < t\,(1-\alpha;\, n-1)$, conclude failure to meet the performance standard, or
if $t^* \geq t\,(1-\alpha;\, n-1)$, conclude that the performance standard was met.

Table C-3. Results of one-sample Student's *t*-test.

Parameter	Tailings Site mean	Reference Site mean	*s*	*n*	$t_{critical}$	$t_{calculated}$	Standard met?
Canopy cover (%)	0.489	0.488	0.090	30	$1.311_{(df=29,\ p=0.1)}$	9.019	yes
Shrub density (shrubs per acre)	1054.9	341.7	824.0	30	$1.311_{(df=29,\ p=0.1)}$	18.864 *	yes

*Analysis was performed on log-transformed data

Table C-3 indicates that for both parameters, the calculated *t*-statistic is greater than the critical *t*-statistic. Thus, we can reject the null hypothesis that the canopy cover and shrub density at Tailings Site is less than the Reference and accept the alternative hypothesis. Therefore, the standard is met in both cases.

APPENDIX D - PHOTOGRAPHS

Site Photos from November 2020 Revegetation Success Monitoring Surveys

Photo 1 - Tailings Site November 2020. Photo overlooking Tailings Site facing south-southwest.

Photo 2 - Site conditions at Reference Site November 2020. Photo taken looking north.

Site Photos from November 2020 Revegetation Success Monitoring Surveys

Photo 5 - Example of transect line used for both methods at Tailings Site (T26 North). Photograph taken facing north.

Photo 6 - Transect line shown in prior photograph at Tailings Site facing south (T26 South).

Site Photos from November 2020 Revegetation Success Monitoring Surveys

Photo 7 - Example of transect line used for both methods at Reference Site (R46 North). Photograph taken facing north.

Photo 8 - Transect line shown in prior photograph at Reference Site facing south (R46 South).