FIELD ACTIVITIES REPORT SOIL AND VEGETATION SAMPLING EVENT AUGUST-SEPTEMBER 2013

Prepared for Chevron Mining Inc. Questa, New Mexico

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URS Corporation (URS) conducted vegetation monitoring and soil and vegetation sampling in August-September 2013 for the Tailing Facility Demonstration Solar Facility and Alternative Cover Depth Project at the Chevron Mining Inc. (CMI) Questa Mine located in Questa, New Mexico (Figure 1). The objective of the solar cover area sampling was to obtain soil and vegetation chemical data for use in the evaluation of the effectiveness of various cover depths for the protection of human health and the environment (CMI 2009). Post construction soil sampling was previously conducted in 2011 and 2012. Post-construction vegetation monitoring and vegetation sampling were conducted for the first time during this sampling event (August 2013).

This report presents a summary of the August through September 2013 field activities, modifications from the sampling plan, tabulated results, and Appendices containing field documentation (photographs and field data sheets) and the data validation reports and lab data packages.

1.0 FIELD ACTIVITIES

Field activities for the solar cover area sampling events were conducted during late August and early September 2013.

Vegetation monitoring was conducted August 20 to 23 by a 3 to 4 person field team and from August 26 to 29 by a 4 to 5 person team. Data were collected from 45 transects in each of the 6 areas, including the solar 1, 2, and 3 foot cover depth areas and the adjacent non-solar 1, 2, and 3 foot cover depth areas.

Soil and vegetation samples were collected by a 3-person field team from September 9 to 12. Samples were collected from a total of 27 locations in the Alternative Cover Depth project site (Figure 2). Each cover plot contained 3 transects per plot and 3 sample points (locations) per transect. A surface soil sample was collected at each of the 27 sample locations. Samples of up to three plant life forms (grass, forb, and shrub) were also collected at each of the locations, as available. However, 65 of the possible 81 vegetation samples were collected; shrub samples were not available and could not be obtained at 16 of the 27 sample locations.

Field activities were conducted in general accordance with the Quality Assurance Project Plan (QAPP), Standard Operating Procedures (SOPs), and Sampling and Analysis Plan (SAP) that were developed for this project during the initial baseline sampling event in 2010 (URS 2010). The QAPP and SAP were updated for the 2013 sampling event, and a new SOP (10.0) for Vegetation Monitoring was developed. A plan and maps of proposed sampling and monitoring locations were provided to EMC prior to the start of field work.

A photographic log is included as Appendix A. Field data sheets for soil and vegetation samples are included as Appendix B.

2.0 MODIFICATIONS FROM SAMPLING PLAN

The SAP indicated that the vegetation monitoring transect locations in the non-solar areas would be randomly selected along parallel lines 1 meter apart. The sampling approach was modified to 2 meters apart to address Global Positioning System (GPS) variability which could result in overlapping transects.



In addition, the goal of the vegetation monitoring was to achieve the same level of sample adequacy as used by Buchanan 2010, e.g., enough transects in each area to reach 90% confidence that the sample mean is within 10% of the true population mean. The number of transects to be monitored depends primarily on the mean and variability of the data. Sample size (number of transects) was calculated based on total vegetation cover. The number of transects required for sample adequacy is presented in Table 5. To achieve the sample adequacy would have required 70 to 80 transects in the 1- and 2-foot solar areas, and 285 to 293 transects in the 1- and 2-foot non-solar areas. Challenges in achieving sample adequacy (number of transects) were identified during the initial monitoring activities and discussed with the CEMC Project Manager. These challenges included low vegetation cover in some areas, high variability in vegetation cover, the small size (about 1 acre) of the non-solar areas, and time constraints of the sampling period based on seasonal changes. Due to these challenges 45 transects were monitored in each area. Sample adequacy should require fewer transects in future years as the vegetation develops.

Two modifications were made during the vegetation sampling. The location of the third transect in the 2 foot cover area was modified to move the second and third points out of a barren area. The first point (CVR2TR3-1) was maintained in the same location. The direction of the transect was rotated so that the other two points (CRV2TR3-2 and CVR2TR3-3) were in vegetated areas. Potential modifications of transect direction were also considered for CVR2TR1 and CVR1TR3, but it was decided that changes in the length of the radius for sampling area would provide access to suitable plants for sampling. When the location of the third transect in the 2-foot cover area was moved for the vegetation sampling, the two related soil samples (CVR2TR3-2-SOL, CVR2TR3-3-SOL) were also moved with the vegetation samples.

The sampling radius identified in the SAP for vegetation sampling was 2 meters. In the field, the sampling radius was extended up to 5 meters in order to enable collection of a sample at a greater number of locations. Low amounts of vegetation were present at some sample locations because (1) individuals of a specific life form were not present within 2 meters, (2), individuals of a specific life form were not present within 2 meters, (2), individuals of a specific life form within the 2 meter radius were too small to provide an adequate amount of sample material, or (3) combinations of availability and size were insufficient to provide adequate material. Shrubs were much less common than grasses and forbs; they were not present at most sample locations, and required an enlarged sampling radius at 10 of the 11 locations where they were collected. Low vegetation cover was observed at several of the transects within the 1- and 2-foot cover non-solar areas (CVR1TR3 and CVR2TR3) and the north end of the 2-foot solar area (CVR2TR1). The sampling radius for each point and life form is identified in Table 3.

The sampling event included collection of plant material from 5 individuals of a species at each sample location. Most of the grass samples and some of the forb and shrub samples required collection of more than 5 individuals of a species because grasses were small and more material was needed to meet the required sample size. To minimize damage to the revegetation area, sampling was restricted to collection of 50% or less of the existing vegetation above 1 inch. A few forb and shrub samples included collection of fewer than 5 individuals because the sampled plants were sufficiently large to provide an adequate sample size and there were no other nearby individuals.



3.0 SAMPLING ACTIVITIES

3.1 Soil Cover Sampling

Sample locations are shown on Figure 2. Sample locations were selected by using the same first point on each transect as used in previous years, and rotating the transect direction to obtain new locations for the second and third points on each transect. In addition, the direction of one transect was modified in the field to allow sample collection in a vegetated area. Sample points were located and surveyed with a handheld Trimble Geo-XH. The horizontal positions are reported in northing and easting coordinates to the nearest foot. Survey coordinates are provided in Appendix C.

Soil samples were collected and analyzed consistent with the project SOP No 1.0, Near Surface Soil Sampling. Composite samples, consisting of 5 aliquots, were collected from an area of approximately 30-cm in diameter and a depth of 0 to 3 inches below ground surface. Samples were collected using a clean (i.e. decontaminated) steel pick (masons hammer) and stainless steel spoon or trowel. Soil samples were sieved using a No. 10 sieve (2-millimeter [mm] mesh) into a stainless steel mixing bowl. Material that was greater than 2 mm was discarded. The sample was homogenized using the quartering method and placed in laboratory provided sample jars. The jars were all clearly labeled with the sample ID, sample collection time and date, required preservation, and requested analysis per SOP No 3.0, Sample Management.

Soil samples were described based on visual observations in the field and recorded on field data sheets which are provided in Appendix B and summarized in Table 1. Sample locations and procedures were photographed and are provided in Appendix A.

3.2 Vegetation Sampling

Vegetation samples were collected at the same locations as the soil samples. At each location, a sample of a representative grass, forb, and shrub, as available, was collected. Sampling was conducted near the end of the growing season and toward the end of the summer monsoon season, and vegetation was well established. Grass and forb samples were collected at each of the sample points; however, shrub samples were collected at 11 of the 27 locations because the distribution of shrubs was uneven. Table 2 provides a list of species that were sampled. Details of the sampling and the sample material are provided in Table 3.

Western wheatgrass was the most commonly sampled grass species because it occurred in dense to sparse clusters that provided adequate material for sampling. Bluebunch wheatgrass, a bunch grass, was collected at locations where it was more common than western wheatgrass. Indian ricegrass, another bunch grass, was sampled at one site where it was the only grass available. Arizona fescue was also common but was too small to provide adequate plant material for sampling; use of this species would have required clipping very close to the ground and use of a very large number of plants to achieve adequate sample size. For the forbs, white sagebrush and yellow sweetclover were the most common species sampled. Yellow sweetclover is an introduced biennial species, and relatively large individuals of both first year vegetative and second year flowering plants were encountered. Most sweetclover samples included flowering/fruiting stems. White sagebrush varied considerably in size and was irregular in occurrence, and was sampled where it was available in sufficient amounts. Prickly Russian



thistle was sampled at a few locations were other forbs were not available; however, the sampled plants were generally small. Prickly Russian thistle is an invasive species but was not abundant and does not appear to be limiting the establishment of other species. In some areas, Russian thistle plants from last year appeared to provide nursery conditions for growth of other species. Curlycup gumweed, a native biennial, was sampled at one location. Curlycup gumweed was irregularly established in the study area and had very large individuals.

Most plants were clipped at approximately 1 inch aboveground, while samples were collected from larger forbs and shrubs by clipping to a mainstem. No more than 50% of the aboveground growth was taken, and roots were not disturbed. The samples were bagged and stored in coolers on ice until the vegetation could be washed. Washing was conducted at the Tailing Facility field trailer complex, where appropriate sample management equipment was setup. Most samples required one washing, while hairy plants, including white sagebrush and winterfat, sometimes required two or more washings. Washing samples of white sagebrush produced a very pleasant odor, while washed curlycup gumweed had a very strong and unpleasant odor. Russian thistle samples had to be handled with care to prevent the prickles poking through the bag. Some grass samples with culms and forb samples with stiff stems had to be handled with care or clipped to a smaller size to reduce the potential for breaching the washing and sample bags. Washed samples were gently dried using paper towels before placing them in new and labeled Ziploc bags. Samples were shipped in coolers on wet ice under chain of custody to TestAmerica.

3.3 Vegetation Monitoring

Vegetation composition and cover and shrub density data were collected along 45 point-intercept transects in the solar and non-solar portions of the 1, 2, and 3 foot cover areas. The results are summarized in Tables 5, 6, and 7, and the full data set is provided in Appendix D. Table 5 provides the mean and standard deviation for vegetation in five categories: grasses, forbs, shrubs, total vegetation, and perennial cover. Table 5 also provides mean number of species per transect, shrub density, number of transects completed in each area, and number of transects needed for data adequacy for vegetation cover. Table 6 provides cover data and constancy by species and Table 7 provides shrub density by species. Constancy is the proportion of transects in which a species was recorded. Table 8 provides a list of plant species observed. Plant species were identified in the field using Allred and Ivey 2012 and other botanical references.

Transects were 25 meters in length, with data collected at each half meter point for a total of 50 points per transect. Cover and species composition was recorded at each point along the transect by recording the first species encountered from the top. At points without vegetation, other ground cover was recorded including litter, rock, bare ground, or other (electrical vault at 2S-46, wire at 2N-27). Collection of accurate point data was facilitated by holding a pin flag or other pointer vertically from the tape to the vegetation or ground surface. All data points were placed on the north side of the tape. Shrub density data were collected in belt transects, 25 meters long and 0.3 meter wide adjacent and on the north side of each point-intercept transect, by counting shrubs (by species) rooted in the belt transects.

Prior to the field work, transect locations were randomly selected. Due to the small size of the study areas, transects were oriented in an east-west direction so that they did not cross each other. The transect starting points were selected along lines two meters apart in a north-south direction within the non-solar area, and 5 meters apart in the solar area, with potential transect



starting points spaced 1 meter apart along each line. Transects starting points were selected using random numbers from Random.com, using a two-stage process of first randomly selecting the line, and then the starting point along the line. Transects that did not fit within the area or that overlapped with previously selected transects were discarded. Potential transects were selected and numbered sequentially until 60 transects were selected in each area. In the field, the first 45 transects in each area were used. During the field work, it was observed that some of the proposed transects in the north part of the 2-foot and 3-foot cover areas were located from 60 to 150 feet north of the solar array footprint, and not likely to be influenced by the solar array. These transect locations were therefore discarded, and alternate transect locations were used that were within or near the solar array footprint. The numbering of transects in the 2- and 3-foot solar areas therefore includes transect numbers higher than 45. Several of the proposed transect locations were moved up to 1 to 2 meters in order to avoid manholes, electrical boxes solar posts, utility poles, and roadways including 3S-39, 3N-2, 3N-15, 3N-27, 3N-31, 1S-25, 1S-28, and 1S-37.

During the field work, an estimate of adequate sample size was developed using the vegetative cover data for the first 25 or 30 transects in the 3-foot and 2-foot solar areas. The 3-foot solar area had more uniform cover than most of the other areas, and sample adequacy was achieved at 45 transects. This same sample size was then used for the other five areas. It was later found that the 3-foot non-solar area would have achieved adequacy with less than 45 transects. However, the other four areas did not achieve sample adequacy. The same level of sample adequacy would have required an additional 25 to 35 transects in the 1- and 2-foot solar areas, and roughly 250 additional transects in the 1- and 2-foot non-solar areas (Table 5).

The southern half of the 1-foot and 2-foot non-solar areas had a large number of transects with no recorded vegetation or very low cover. Twenty-seven percent (27%) of transects in the 1-foot non-solar and 20% of transects in the 2-foot non-solar area had no recorded vegetation (Table 6). The 1- and 2-foot non-solar areas also had lower vegetation cover, lower perennial plant cover, and lower shrub density than the other areas (Table 5). The 3-foot cover solar and non-solar areas had the highest vegetation cover, perennial plant cover, and number of species per transect (Table 5).

A total of 28 species were recorded in the vegetation cover and shrub density transects. The most common species were Indian ricegrass, Arizona fescue, western wheatgrass, bluebunch wheatgrass, yellow sweetclover, and prickly Russian thistle (Table 6). Grasses and forbs were about equally abundant overall, while shrubs made up less than 3% of the cover in all areas. With the exception of white sagebrush and alfalfa, the forbs present were annuals and biennials that did not contribute to perennial plant cover. The most common shrub species was winterfat, with yellow rabbitbrush and rubber rabbitbrush also common (Tables 6 and 7). Some additional species were observed in the alternative cover demonstration area but not recorded on the transects (Table 8). None of the species observed is considered to be a noxious weed in the State of New Mexico, except for spotted or diffuse knapweed, which was found in very small numbers by the entrance road.



3.4 Laboratory Analysis/Results

Soil and vegetation samples were submitted to the TestAmerica's Burlington, Vermont laboratory for molybdenum, copper, and sulfate analysis per methods specified in the project-specific QAPP. Laboratory analytical data are summarized in Table 4.

Laboratory data were validated in accordance with the QAPP (URS 2013). Data validation summary reports are included as Appendix E. Complete laboratory data packages are included as Appendix F.

4.0 REFERENCES

- Allred, Kelley W. and Robert DeWitt Ivey. 2012. Flora Neomexicana III: An Illustrated Identification Manual. Available at lulu.com.
- Buchanan Consultants, Ltd. 2010. Questa Tailing Facility Interim Reclamation Plant Community Sampling Report, 2009. Presented to Chevron Mining Inc., Questa Mine. April.
- Chevron Mining Inc. 2009. Demonstration Solar Facility and Alternative Cover Depth Project for Chevron Questa Mine Tailing Facility.
- URS. 2013. Chevron Mining Inc., Final Questa Mine Sampling Quality Assurance Project Plan, Revision 1.0. Prepared for Chevron Mining Inc., Questa, New Mexico. September.
- URS. 2010. Questa Mine April/May 2010 Soil and Vegetation Sampling Event Demonstration Solar Facility and Alternative Cover Depth Project. Prepared for Chevron Mining Inc., Questa, New Mexico. July.

Table 1 DESCRIPTION OF SOIL SAMPLES COLLECTED AT EACH SAMPLE LOCATION FOR THE ALTERNATIVE COVER DEPTH PROJECT CMI Questa Mine

Soil and Vegetation Sampling Event August-September 2013

er Depth Plot 1sect No. Cover Plot		ample ocation	Interim Cover Soil
Cov Tran Per C S S			Soil Description
		CVR1TR1-1	SAND and gravel, some silt, trace cobble, dense, non-plastic, dry, light yellowish brown
	1	CVR1TR1-2	COBBLES and gravel and sand, some silt, dense, non-plastic, dry, pale brown
		CVR1TR1-3	SAND, some gravel, trace cobbles and silt, dense, non-plastic, dry, pale brown
		CVR1TR2-1	SILT and sand, some gravel, loose, non-plastic, damp, pale brown
1-foot Plot	2	CVR1TR2-2	SAND and gravel, some silt and cobbles, medium dense, non-plastic, dry, pale brown
		CVR1TR2-3	SAND and gravel, some silt, trace cobble, dense, non-plastic, dry, light brown
		CVR1TR3-1	SAND and some clay and gravel/cobbles, loose, moist, light brown
	3	CVR1TR3-2	GRAVEL/COBBLES, some sand and clay, moist, yellowish brown
		CVR1TR3-3	GRAVEL/COBBLES, some sand, trace silt, loose, non-plastic, moist, yellowish brown
		CVR2TR1-1	GRAVEL and sand, some cobbles and silt, dense, non-plastic, dry, light yellowish brown
	1	CVR2TR1-2	GRAVEL and sand, some silt, trace cobble, dense, non-plastic, dry, light yellowish brown
		CVR2TR1-3	GRAVEL and sand, trace silt, dense, non-plastic, dry, light yellowish brown
	2	CVR2TR2-1	COBBLES, some gravel, sand, and clay, non-plastic, moist, brown
2-foot Plot		CVR2TR2-2	FEW COBBLES, some sand and gravel, silt, non-plastic, moist, brown
		CVR2TR2-3	GRAVEL some cobbles and sand, trace clay, non-plastic, moist, brown
		CVR2TR3-1	SAND some gravel, trace cobbles and clay, non-plastic, moist, brown
	3	CVR2TR3-2	SAND and gravel, some cobbles and clay, non-plastic, moist, brown
		CVR2TR3-3	SAND, some gravel, cobbles, and clay Low-plastic loose, moist, pale brown
		CVR3TR1-1	SAND and gravel, some cobbles and silt, non-plastic, dense, dry, light yellowish brown
	1	CVR3TR1-2	GRAVEL and sand, some cobbles, trace silt, non-plastic, dense, dry, light yellowish brown
		CVR3TR1-3	GRAVEL, some sand and silt, trace cobbles, non-plastic, loose, dry, light yellowish brown
		CVR3TR2-1	SAND, some clay, cobbles, and gravel, non-plastic loose, moist, light brown
3-foot Plot	2	CVR3TR2-2	SAND, some silt and gravel, non-plastic, loose, moist, reddish yellow
		CVR3TR2-3	SAND and gravel, some clay, low-plastic, loose, moist, brown
		CVR3TR3-1	SAND and clay, some gravel, low-plastic, loose, moist, brown
	3	CVR3TR3-2	SAND and clay, some gravel, little cobbles, low-plastic, moist, brown
		CVR3TR3-3	SAND and some clay and cobbles, trace gravel, low-plastic, loose, moist, brown

Table 2PLANT SPECIES SAMPLEDCMI Questa MineSoil and Vegetation Sampling EventAugust-September 2013

Common Namo	Sciontific Namo	Plant type	Sa	Total		
Common Name	Ocientine Maine	Fidint type	Cover 1 ¹	Cover 2 ²	Cover 3 ³	Samples
Grasses						
Western wheatgrass	Pascopyrum smithii	Native perennial	5	6	7	18
bluebunch wheatgrass	Pseudoroegneria spicata	Native perennial	4	3	1	8
Indian ricegrass	Achnatherum hymenoides	Native perennial	0	0	1	1
		Total number of grass samples	9	9	9	27
Forbs						
White sagebrush	Artemisia ludoviciana	Native perennial	2	2	3	7
Yellow sweetclover	Melilotus officinalis	Introduced biennial	7	6	1	14
Prickly Russian thistle	Salsola tragus	Introduced annual	0	1	4	5
Curlycup gumweed	Grindelia squarrosa	Native biennial/perennial	0	0	1	1
		Total number of forb samples	9	9	9	27
Shrubs						
Rubber rabbitbrush	Ericameria nauseosa	Native	0	1	2	3
Winterfat	Ceratoides lanata	Native	0	2	6	8
	Т	otal number of shrub samples	0	3	8	11

Notes:

¹ Cover 1 = 1 foot soil cover area

² Cover 2 = 2 foot soil cover area

³ Cover 3 = 3 foot soil cover area

					round Sample	
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description
Grasses- Cover	1 ¹					
TR1-1	Western wheatgrass	8	3 meters	10 inches	1 inch aboveground	7 plants vegetative, one flowering/fruiting.
TR1-2	Western wheatgrass	9	4 meters	7 inches	1 inch aboveground	8 plants vegetative, one flowering/fruiting. Small thin clusters.
TR1-3	Western wheatgrass	8	3 meters	7 inches	1 inch aboveground	All plants vegetative. Plants are small clumps and clusters.
TR2-1	Bluebunch wheatgrass	7	2 meters	6 inches	1 inch aboveground	4 plants vegetative, 3 have culms with seeds though most seeds have already dropped.
TR2-2	Bluebunch wheatgrass	8	2 meters	4 inches	1 inch aboveground	All plants vegetative.
TR2-3	Western wheatgrass	10	2 meters	8 inches	1 inch aboveground	All plants vegetative. Plants are loose clusters.
TR3-1	Bluebunch wheatgrass	7	5 meters	4 inches	1 inch aboveground	All plants vegetative. Small plants.
TR3-2	Western wheatgrass	6	4 meters	6 inches	1 inch aboveground	4 plants vegetative, 2 flowering/fruiting. Sparse clumps.
TR3-3	Bluebunch wheatgrass	9	3 meters	5 inches	1 inch aboveground	8 plants vegetative, one flowering/fruiting.
Grasses - Cover	2 ²					
TR1-1	Western wheatgrass	8	3 meters	8 inches	1 inch aboveground	7 plants vegetative, one flowering/fruiting, plants clumps sparse.
TR1-2	Western wheatgrass	6	4 meters	8 inches	1 inch aboveground	4 plants vegetative, 2 flowering/fruiting; thin clusters.
TR1-3	Western wheatgrass	8	5 meters	8 inches	1 inch aboveground	7 plants vegetative, 1 flowering/fruiting; plants are clusters. Small, widely scattered plants.
TR2-1	Western wheatgrass	7	2 meters	12 inches	1 inch aboveground	1 plant vegetative, 6 flowering/fruiting, culms to 18 inches, strong plants.
TR2-2	Western wheatgrass	7	2 meters	10 inches	1 inch aboveground	All flowering/fruiting, culms to 18 inches, strong plants.

				Aboveground Sample				
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description		
TR2-3	Bluebunch wheatgrass	6	2.5 meters	6 inches	1 inch aboveground	1 vegetative, 5 flowering/fruiting, culms to 16 inches.		
TR3-1	Bluebunch wheatgrass	5	4 meters	6 inches	1 inch aboveground	1 vegetative, 4 flowering/fruiting. Culms to 15 inches.		
TR3-2	Bluebunch wheatgrass	9	4 meters	5 inches	1 inch aboveground	8 vegetative, 1 flowering/fruiting. Small plants.		
TR3-3	Western wheatgrass	8	3 meters	6 inches	1 inch aboveground	5 vegetative, 3 flowering/fruiting.		
Grasses - Cover	3 ³							
TR1-1	Western wheatgrass	5	2 meters	9 inches	1 inch aboveground	3 vegetative, 2 flowering/fruiting. Flowering plants are 2 feet high and 3 feet wide; vegetative at 2 inches high and 10 inches wide		
TR1-2	Western wheatgrass	6	2 meters	10 inches	1 inch aboveground	3 vegetative, 3 flowering/fruiting, culms to 18 inches. One plant had about 20% yellow leaves.		
TR1-3	Western wheatgrass	8	2 meters	8 inches	1 inch aboveground	4 vegetative, 4 flowering/fruiting, culms to 18 inches.		
TR2-1	Western wheatgrass	7	2 meters	8 inches	1 inch aboveground	3 vegetative, 4 flowering/fruiting, culms to 15 inches, thick clumps.		
TR2-2	Western wheatgrass	5	2 meters	12 inches	1 inch aboveground	All flowering/fruiting, culms to 18 inches, strong plants.		
TR2-3	Bluebunch wheatgrass	6	2 meters	8 inches	1 inch aboveground	1 vegetative, 5 flowering/fruiting, culms to 20 inches Sample is all foliage, seeds mostly dropped already.		
TR3-1	Western wheatgrass	6	2 meters	12 inches	1 inch aboveground	All plants flowering/fruiting, culms to 18 inches, 8 inch diameter clumps.		
TR3-2	Western wheatgrass	5	2 meters	12 inches	1 inch aboveground	1 vegetative, 4 flowering/fruiting. Culms to 18 inches, open to dense clumps.		

				Aboveground Sample				
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description		
TR3-3	Indian ricegrass	5	3 meters	14 inches	1 inch aboveground	All plants flowering/fruiting.		
Forbs - Cover 1	1							
TR1-1	White sagebrush	5	3 meters	4 inches	1 inch aboveground	4 vegetative, 1 flowering. Small plants except 1, average 6 inches wide.		
TR1-2	Yellow sweetclover	6	3 meters	18 inches	Side branches clipped at main stem (4 plants), 1 inch aboveground (2 plants)	1 plant vegetative, 5 flowering/fruiting. Plants 2 feet wide. Vegetative plant is mostly prostrate but has one vertical stem.		
TR1-3	White sagebrush	5	3 meters	6 inches	1 inch aboveground	4 vegetative, 1 flowering. Plants average 6 inches diameter.		
TR2-1	Yellow sweetclover	5	2.5 meters	18 inches	Side branches clipped at main stem (2 plants), 1 inch aboveground (3 plants)	All flowering/fruiting. 18 inches wide.		
TR2-2	Yellow sweetclover	6	2 meters	18 inches	1 inch aboveground	All plants flowering/fruiting. 18 inches wide.		
TR2-3	Yellow sweetclover	5	2 meters	18 inches	1 inch aboveground	All plants flowering/fruiting. 18 inches wide.		
TR3-1	Yellow sweetclover	4	5 meters	24 inches	Side branches clipped at main stem	1 vegetative, 2 flowering/fruiting, 1 senescing but still flowering. Vegetative plant is first year. Plants 24 inches wide.		
TR3-2	Yellow sweetclover	5	5 meters	12 inches	1 inch aboveground	3 vegetative, 2 flowering/fruiting. Flowering plants are 2 feet high and 3 feet wide; vegetative at 2 inches high and 10 inches wide.		
TR3-3	Yellow sweetclover	5	3 meters	24 inches	Side branches clipped at main stem	All plants flowering/fruiting. 24 inches wide.		

				Aboveground Sample			
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description	
Forbs – Cover 2	2						
TR1-1	Yellow sweetclover	6	2 meters	18 inches	1 inch aboveground	All flowering/fruiting. Plants 18 inches diameter.	
TR1-2	White sagebrush	4	2 meters	12 inches	1 inch aboveground	All flowering/fruiting. Plants 4 inches diameter.	
TR1-3	Prickly Russian thistle	8	2.5 meters	5 inches	0.5 inch above ground	All plants flowering/fruiting. Plants 5 inches diameter. Growing in a patch with similar-sized Kochia scoparia.	
TR2-1	White sagebrush	5	3 meters	8 inches	1 inch aboveground	1 plant vegetative, 4 flowering/fruiting. Average 6 inches diameter. Ladybugs.	
TR2-2	Yellow sweetclover	5	2 meters	18 inches	Side branches clipped at main stem.	All plants flowering/fruiting. Average 15 inches diameter.	
TR2-3	Yellow sweetclover	5	3 meters	24 inches	Side branches clipped at main stem.	All plants flowering/fruiting. Average 3 feet in diameter. 3 dead sweetclover plants in sampling radius were not sampled.	
TR3-1	Yellow sweetclover	4	3 meters	14 inches	1 inch aboveground	2 plants vegetative, 2 flowering/fruiting. Vegetative plants are 3 inches tall and 2 feet wide, flowering plants are 2 feet high and wide.	
TR3-2	Yellow sweetclover	5	2 meters	15 inches	1 inch aboveground	All flowering/fruiting. 18 inches diameter. Two mostly dead sweetclover plants were not sampled.	
TR3-3	Yellow sweetclover	5	3 meters	18 inches	Side branches clipped at main stem.	All flowering/fruiting. 30 inches diameter.	

				Aboveground Sample			
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description	
Forbs – Cover 3	3						
TR1-1	White sagebrush	5	2 meters	18 inches	1.5 inches aboveground	All plants flowering/fruiting. Four plants large and robust.	
TR1-2	White sagebrush	6	2 meters	4 inches	1 inch aboveground	All plants vegetative, 3 to 9 inch diameter clumps, 2 to 6 inches tall.	
TR1-3	Curlycup gumweed	3	2 meters	15 inches	Side shoots clipped at main stem	All plants flowering/fruiting. Plants 24 inches wide, big healthy plants.	
TR2-1	Prickly Russian thistle	8	2 meters	4 inches	1 inch aboveground	All plants flowering/fruiting. Small plants about 3 inches diameter.	
TR2-2	Prickly Russian thistle	5	2 meters	6 inches	1 inch aboveground	All plants flowering/fruiting. Plants about 6 inches diameter.	
TR2-3	Yellow sweetclover	4	2 meters	36 inches	Side shoots clipped at main stem	All plants flowering/fruiting. Plants big, about 3 feet diameter. One was dead on one side. Another big sweetclover was recently dead and not sampled.	
TR3-1	Prickly Russian thistle	6	3 meters	9 inches	Side shoots clipped at main stem	All plants flowering/fruiting. Plants about 9 inches diameter, healthy.	
TR3-2	White sagebrush	5	4 meters	12 inches	1 inch aboveground	2 plants vegetative, 3 flowering/fruiting. Plants about 6 inches diameter, vary in size.	
TR3-3	Prickly Russian thistle	5	2 meters	12 inches	1 inch aboveground	All plants flowering/fruiting. About 8 inches diameter, irregular in shape, healthy.	
Shrubs – Cover	1 ¹						
TR1-1	No shrub sample						
TR1-2	No shrub sample						
TR1-3	No shrub sample						
TR2-1	No shrub sample						
TR2-2	No shrub sample						

				Aboveground Sample			
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description	
TR2-3	No shrub sample						
TR3-1	No shrub sample						
TR3-2	No shrub sample						
TR3-3	No shrub sample						
Shrubs – Cover	2 ²						
TR1-1	No shrub sample						
TR1-2	No shrub sample						
TR1-3	No shrub sample						
TR2-1	Winterfat	10	3 meters	8 inches	1 inch aboveground	All plants vegetative. Small plants 4 inches diameter, 4 to 10 stems. Three plants exhibit die-back of tip growth.	
TR2-2	Winterfat	4	4 meters	10 inches	1 inch aboveground	2 plants vegetative, 2 flowering/fruiting. Average 6 inches diameter, 5 to 12 stems. Small but healthy.	
TR2-3	Rubber rabbitbrush	7	5 meters	12 inches	1 inch aboveground	All plants vegetative. 3 inches diameter, hard to find. One had galls.	
TR3-1	No shrub sample						
TR3-2	No shrub sample						
TR3-3	No shrub sample						
Shrubs – Cover	3 ³						
TR1-1	Winterfat	6	5 meters	15 inches	1 inch aboveground, or at base of stem at about 2 inches aboveground	All plants flowering/fruiting. Plants about 8 inches diameter, 6 to 15 stems.	
TR1-2	Winterfat	5	2 meters	15 inches	1 inch aboveground, one clipped at main stem	All plants vegetative, 9 to 18 inches tall, branched at base.	

				Aboveground Sample				
Sample Location	Species	Number of Individuals Sampled	Radius of sampling from point (meters)	Average Height of Sampled Plants	Sampling/Clipping Height	Description		
TR1-3	Winterfat	4	3 meters	12 inches	1 inch aboveground	2 plants vegetative, 2 flowering/fruiting. Plants 8 to 12 inches diameter, up to 30 inches in height.		
TR2-1	Winterfat	10	5 meters	12 inches	1 inch aboveground	8 plants vegetative, 2 flowering/fruiting. Plants about 8 inches diameter, 5 to10 stems.		
TR2-2	No shrub sample							
TR2-3	Winterfat	8	3 meters	12 inches	1 inch aboveground	6 plants vegetative, 2 flowering/fruiting. About 3 inches diameter, 2 to 4 stems.		
TR3-1	Rubber rabbitbrush	2	5 meters	18 inches	1 inch aboveground	Both plants flowering/fruiting. 2 foot diameter, healthy.		
TR3-2	Winterfat	2	5 meters	14 inches	1 inch aboveground for smaller, clipped to mainstem for larger plant	Both plants flowering/fruiting. Bigger plants 2 feet high and 18 inches diameter, smaller one 8 inches high and 6 inches diameter.		
TR3-3	Rubber rabbitbrush	5	3 meters	12 inches	1 inch aboveground	2 plants vegetative, 2 in bud, 1 flowering/fruiting. Plants 1 foot diameter, healthy.		

Notes:

-- denotes that the plant lifeform was not available.

¹ Cover 1 = 1 foot soil cover area

² Cover 2 = 2 foot soil cover area

³ Cover 3 = 3 foot soil cover area

Table 4 SOIL AND VEGETATION LABORATORY ANALYTICAL RESULTS CMI Questa Mine Soil and Vegetation Sampling Event August-September 2013

lot	per	ion				Grasses	Forbs	Shrubs
μE	ot o	cat				Vegetation	Vegetation	Vegetation
ept	ΣĞ	nple Loo		Soil		Aboveground Plant	Aboveground Plant	Aboveground Plant
Õ	ect vei					Tissue	Tissue	Tissue
/er	Co			T01N-SOL		T02N-PLTGAW	T03N-PLTFAW	T04N-PLTSAW
Ó	Гrа	Sar	Мо	Cu	Sulfate	Мо	Мо	Мо
0	•	.,	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		CVR1TR1-1	4.5 J	13.1 J	1110 J	26.1 J	31.4 J	-
	1	CVR1TR1-2	1.4 J	12.2 J	143 J	18.7 J	50.5 J	-
		CVR1TR1-3	3.9 J	13.5 J	448 J	66 J	16.6 J	-
1 foot		CVR1TR2-1	0.88 J	9.3 J	237 J	15.7 J	26 J	-
Plot	2	CVR1TR2-2	1.1 J	11.5 J	155 J	7.1 J	20.4 J	Shrubs Vegetation Aboveground Plant Tissue T04N-PLTSAW Mo (mg/kg) -
FIUL		CVR1TR2-3	0.64 J	11.5 J	240 J	2.5 J	7.4 J	-
		CVR1TR3-1	6 J	20 J	13.5 J	40.4 J	72.2 J	-
	3	CVR1TR3-2	4.4 J	19.4 J	4.87 J	29.5 J	82.6 J	
		CVR1TR3-3	6.2 J	17.1 J	155 J	32.8 J	114 J	-
	1	CVR2TR1-1	3.7 J	15.8 J	84.8 J	9.6 J	57.6 J	-
		CVR2TR1-2	9.4 J	19.5 J	33.4 J	6.9 J	3.4 J	-
		CVR2TR1-3	13.5 J	25.3 J	50.1 J	29.5 J	15.7 J	-
O fact		CVR2TR2-1	1.9 J	11.4 J	29.2 J	9.1 J	10.7 J	14.5 J
2-100l	2	CVR2TR2-2	0.79 J	10.6 J	182 J	4.6 J	53.7 J	Aboveground Plant Tissue T04N-PLTSAW Mo (mg/kg) - - - - - - - - - - - - -
Plot		CVR2TR2-3	1.2 J	8.3 J	24.2 J	14.3 J	27.6 J	10 J
	3	CVR2TR3-1	2.8 J	15.6 J	43.5 J	25.5 J	52.3 J	-
		CVR2TR3-2	7.4 J	19.5 J	42.3 J	28.6 J	35.8 J	-
		CVR2TR3-3	1.8 J	12 J	380 J	6.7 J	29.1 J	-
		CVR3TR1-1	4.6 J	12.7 J	229	6.3 J	9.4 J	16.1 J
	1	CVR3TR1-2	2.3 J	12.7 J	30.1 J	9 J	5.9 J	10.3 J
		CVR3TR1-3	0.86 J	11.8 J	919 J	7.8 J	47.6 J	15.8 J
0 6		CVR3TR2-1	6.8 J	15.8 J	345 J	5 J	2.6 J	8.5 J
3-100t	2	CVR3TR2-2	5.3 J	12.5 J	132 J	3.7 J	2.6 J	-
Plot		CVR3TR2-3	1 J	11.7 J	31.7 J	24.1 J	20.5 J	9.8 J
		CVR3TR3-1	3.9 J	15.3 J	2180 J	3.7 J	4.2 J	5.7 J
	3	CVR3TR3-2	49.7 J	29.2 J	442 J	26.8 J	18.6 J	39.3 J
		CVR3TR3-3	8.3 J	14.2 J	171 J	20.7 J	9.6 J	5.9 J

Table 4 SOIL AND VEGETATION LABORATORY ANALYTICAL RESULTS CMI Questa Mine Soil and Vegetation Sampling Event August-September 2013

Notes:

- = denotes no sample was collected (plant type not available).
 J = analytical result is estimated.
 mg/kg = milligram per kilogram
 Mo = molybdenum

Cu = copper

Analytical results are from TestAmerica Burlington (soil, tailing, vegetation).

Table 5SUMMARY OF VEGETATION MONITORING RESULTS
CMI Questa MineSoil and Vegetation Sampling Event
August-September 2013

	1-Foot	Cover	2-Foot	Cover	3-Foot Cover	
	Mean Value	Standard Deviation	Mean Value	Standard Deviation	Mean Value	Standard Deviation
Solar Area						
Grass cover (%)	10.9	5.5	7.8	5.7	13.5	4.8
Forb cover (%)	9.6	7.5	8.6	6.0	9.6	7.2
Shrub cover (%)	0.1	0.7	0.0	0.0	0.6	1.1
Total vegetation cover (%)	20.6	10.3	16.4	8.7	23.6	9.4
Perennial plant cover (%)	11.3	5.5	8.3	5.6	14.5	4.9
Number of species/transect	3.8	1.4	3.7	1.3	5.2	1.5
Shrub density (shrubs/acre)	923.7	1058.7	1187.5	1516.3	1487.4	1660.4
Number of transects completed	45.0		45.0		45.0	
Number of transects needed for data adequacy	70.2		79.1		44.5	
Non-Solar Area						
Grass cover (%)	4.4	5.5	4.2	4.1	17.3	8.2
Forb cover (%)	3.3	4.0	8.0	9.7	5.9	5.1
Shrub cover (%)	0.0	0.0	0.0	0.3	0.6	1.0
Total vegetation cover (%)	7.7	7.9	12.2	12.3	23.8	8.5
Perennial plant cover (%)	4.5	5.5	4.4	4.2	18.2	8.1
Number of species/transect	2.0	1.7	2.3	1.9	4.7	1.5
Shrub density (shrubs/acre)	227.9	438.1	108.0	295.7	1043.6	825.1
Number of transects completed	45.0		45.0		45.0	
Number of transects needed for data adequacy	292.3		285.2		36.2	

Note:

% = percent

Table 6PLANT SPECIES COVER AND CONSTANCY
CMI Questa MineSoil and Vegetation Sampling Event
August-September 2013

		1-Foot Soil Cover		2-Foot Soil Cover			3-Foot Soil Cover			
		Absolute	Relative Cover	Constancy	Absolute	Relative Cover	Constancy	Absolute	Relative Cover	
		Cover (%)	(%)	(%)	Cover (%)	(%)	(%)	Cover (%)	(%)	Constancy (%)
SOLAR AREA										
Grasses										
Achnatherum hymenoides	Indian ricegrass	0.6	3.0	26.7	0.5	3.0	24.4	1.3	5.7	46.7
Agropyron cristatum	Crested wheatgrass	0.04	0.2	2.2						
Elymus trachycaulus	Slender wheatgrass				0.1	0.8	6.7	0.4	1.7	15.6
Festuca arizonica	Arizona fescue	6.0	29.1	93.3	3.8	23.3	84.4	5.3	22.6	91.1
Pascopyrum smithii	Western wheatgrass	2.2	10.8	62.2	2.2	13.3	62.2	4.4	18.8	91.1
Pseudoroegneria spicata	Bluebunch wheatgrass	2.0	9.9	66.7	1.2	7.1	40.0	1.9	8.1	60.0
Sporobolus cryptandrus	Sand dropseed				0.04	0.3	2.2	0.04	0.2	2.2
Total grasses		10.9	53.0	97.8	7.8	47.7	93.3	13.4	56.9	100.0
Forbs										
Artemisia ludoviciana	Louisiana wormwood	0.3	1.3	13.3	0.4	2.4	17.8	0.4	1.9	15.6
Erigeron divergens	Spreading fleabane				0.04	0.3	2.2			
Grindelia squarrosa	Curlycup gumweed				0.4	2.4	13.3	0.2	0.9	8.9
Kochia scoparia	Kochia	0.04	0.2	2.2						
Medicago sativa	Alfalfa							0.04	0.2	2.2
Melilotus alba	White sweetclover							0.3	1.3	6.7
Melilotus officinalis	Yellow sweetclover	8.7	42.0	86.7	6.3	38.2	73.3	4.3	18.3	71.1
Mentzelia nuda	Bractless blazingstar									
Salsola collina	Smooth Russian thistle				0.04	0.3	2.2	0.4	1.5	11.1
Salsola tragus	Prickly Russian thistle	0.6	2.8	20.0	1.4	8.4	37.8	3.9	16.4	71.1
Total forbs		9.6	46.4	86.7	8.6	52.3	88.9	9.6	40.5	95.6
Shrubs										
Ceratoides lanata	Winterfat							0.4	1.9	20.0
Chrysothamnus viscidiflorus	Yellow rabbitbrush	0.1	0.4	4.4				0.04	0.2	2.2
Ericameria naseosus	Rubber rabbitbrush	0.04	0.2	2.2				0.1	0.6	6.7
Total shrubs		0.1	0.6	4.4	0.0	0.0	0.0	0.6	2.6	26.7
Total Vegetation		20.6	100.0	97.8	16.4	100.0	96.0	23.6	100.0	100.0
NON-SOLAR AREA										
Grasses										
Achnatherum hymenoides	Indian ricegrass	0.8	9.8	35.6	0.7	5.8	24.4	4.5	19.0	88.9
Bromus inermis	Smooth brome	0.04	0.6	2.2						
Elymus trachycaulus	Slender wheatgrass							0.1	0.4	4.4
Festuca arizonica	Arizona fescue	1.9	24.1	42.2	1.8	14.6	51.1	3.0	12.5	75.6
Pascopyrum smithii	Western wheatgrass	0.9	12.1	24.4	1.0	8.4	37.8	7.1	29.7	88.9
Pseudoroegneria spicata	Bluebunch wheatgrass	0.8	10.3	24.4	0.7	5.8	22.2	2.7	11.2	68.9
Sporobolus cryptandrus	Sand dropseed	0.04	0.6	2.2						
Total grasses		4.4	57.5	57.8	4.2	34.6	66.7	17.3	72.8	100.0

Table 6 PLANT SPECIES COVER AND CONSTANCY CMI Questa Mine Soil and Vegetation Sampling Event August-September 2013

		1-Foot Soil Cover				2-Foot Soil Cover		3-Foot Soil Cover		
		Absolute	Relative Cover	Constancy	Absolute	Relative Cover	Constancy	Absolute	Relative Cover	
		Cover (%)	(%)	(%)	Cover (%)	(%)	(%)	Cover (%)	(%)	Constancy (%)
Forbs										
Artemisia ludoviciana	Louisiana wormwood	0.04	0.6	2.2	0.1	0.7	4.4	0.1	0.6	6.7
Lactuca serrola	Prickly lettuce	0.04	0.6	2.2						
Grindelia squarrosa	Curlycup gumweed				0.1	1.1	6.7			
Kochia scoparia	Kochia							0.04	0.2	2.2
Machaerantera canescens	Hoary tansyaster							0.04	0.2	2.2
Medicago sativa	Alfalfa	0.04	0.6	2.2				0.1	0.6	4.4
Melilotus alba	White sweetclover									
Melilotus officinalis	Yellow sweetclover	2.7	34.5	42.2	7.3	59.6	60.0	2.9	12.1	55.6
Mentzelia nuda	Bractless blazingstar				0.1	0.7	4.4			
Salsola collina	Smooth Russian thistle				0.04	0.4	2.2			
Salsola tragus	Prickly Russian thistle	0.5	6.3	20.0	0.3	2.6	15.6	2.6	10.8	46.7
Total forbs		3.3	42.5	57.8	8.0	65.1	66.7	5.9	24.6	82.2
Shrubs					_					
Ceratoides lanata	Winterfat	-						0.4	1.7	17.8
Chrysothamnus viscidiflorus	Yellow rabbitbrush									
Ericameria naseosus	Rubber rabbitbrush				0.04	0.4	2.2	0.2	0.9	11.1
Total shrubs		0.0	0.0	0.0	0.0	0.4	2.2	0.6	2.6	28.9
Total Vegetation		7.7	100.0	73.3	12.2	100.0	82.2	23.8	100.0	100.0

Notes:

-- means not recorded

% = percent

In addition, the following species were recorded at only one point in one transect and had less than 0.05% cover overall

1-foot solar area: Agropyron cristatum (crested wheatgrass)

2-foot solar area: Erigeron divergens (spreading fleabane); Trifolium sp. (clover)

1-foot non-solar area: Bromus inermis (smooth brome); Lactuca serriola (prickly lettuce)

3-foot non-solar area: Machaeranthera canescens (hoary tansyaster); Oenothera albicaulis (evening primrose)

Table 7SHRUB DENSITYCMI Questa MineSoil and Vegetation Sampling EventAugust-September 2013

		1-Foot S	1-Foot Soil Cover		Soil Cover	3-Foot	Soil Cover
		Density	Standard	Density	Standard	Density	Standard
		(#/acre)	Deviation	(#/acre)	Deviation	(#/acre)	Deviation
SOLAR AREA							
Artemisia frigida	Fringed sage	0		0		12.0	
Ceratoides lanata	Winterfat	636		804		1176	
Chrysothamnus viscidiflorus	Yellow rabbitbrush	108		168		132	
Ericameria nauseosus	Rubber rabbitbrush	144		192		168	
Gutierrezia sarothrae	Broom snakeweed	24		24		0	
Senecio spartioides	Broomlike ragwort	12		0		0	
Total shrubs		924	1059	1188	1516	1487	1660
NON-SOLAR AREA							
Artemisia frigida	Fringed sage	0		0		0	
Ceratoides lanata	Winterfat	72		48		900	
Chrysothamnus viscidiflorus	Yellow rabbitbrush	36		12		24	
Ericameria nauseosus	Rubber rabbitbrush	120		48		120	
Gutierrezia sarothrae	Broom snakeweed	0		0		0	
Senecio spartioides	Broomlike ragwort	0		0		0	
Total shrubs		228	438	108	296	1044	825

Notes:

#/acre = number of plants per acre

Standard deviation was only calculated for total shrubs.

Table 8LIST OF PLANT SPECIES OBSERVEDCMI Questa MineSoil and Vegetation Sampling EventAugust-September 2013

Scientific Name	Common Name	Native Status and Duration	Recorded in Cover Transect	Recorded in Shrub Transect
Grasses				
Achnatherum hymenoides	Indian ricegrass	Native perennial	Х	
Agropyron cristatum	Crested wheatgrass	Non-native perennial	Х	
Aristida purpurea	Purple threeawn	Native perennial		
Bouteloua gracilis	Blue grama	Native perennial		
Bromus inermis	Smooth brome	Non-native perennial	Х	
Bromus tectorum	Downy brome	Non-native annual		
Elymus elymoides	Squirreltail	Native perennial		
Elymus trachycaulus	Slender wheatgrass	Native perennial	Х	
Festuca arizonica	Arizona fescue	Native perennial	Х	
Pascopyrum smithii	Western wheatgrass	Native perennial	Х	
Pseudoroegneria spicata	Bluebunch wheatgrass	Native perennial	Х	
Sporobolus cryptandrus	Sand dropseed	Native perennial	Х	
Forbs				
Ambrosia artemissifolia	Annual ragweed	Non-native annual		
Artemisia ludoviciana	Louisiana wormwood	Native perennial	Х	
Centaurea sp.	Knapweed	Non-native biennial		
Erigeron divergens	Spreading fleabane	Native annual	Х	
Gaura coccinea	Copper mallow	Native perennial		
Grindelia squarrosa	Curlycup gumweed	Native annual	Х	
Helianthus annuus	Common sunflower	Native annual		
Heterotheca villosa	Hairy goldenaster	Native perennial		
Kochia scoparia	Kochia	Non-native annual	Х	
Lactuca serriola	Prickly lettuce	Non-native annual	Х	
Linum lewisii	Lewis flax	Native perennial		
Machaeranthera canescens	Hoary tansyaster	Native annual	Х	
Machaeranthera grindelioides	Rayless tansyaster	Native perennial		
Medicago sativa	Alfalfa	Non-native perennial	Х	
Medicago sativa	Alfalfa	Non-native perennial	Х	
Melilotus alba	White sweetclover	Non-native biennial	Х	
Melilotus officinalis	Yellow sweetclover	Non-native biennial	Х	
Mentzelia nuda	Bractless blazingstar	Native biennial	Х	
Oenothera albicaulis	evening primrose	Native perennial	Х	
Penstemon sp.	Penstemon	Native perennial		
, Salsola collina	Smooth Russian thistle	Non-native annual	Х	
Salsola tragus	Russian thistle	Non-native annual	Х	
Sisymbrium altissimum	Tumble mustard	Non-native annual		
Tragopodon sp.	Salsify	Non-native biennial		
Trifolium sp.	Clover	Non-native perennial	Х	
Verbascum thapsus	Common mullein	Non-native biennial		
Verbena bracteata	Bigbract verbena	Non-native annual		
Xanthisma grindelioides	Rayless tansyaster	Native perennial		
Shrubs		1 '		
Artemisia frigida	Fringed sage	Native shrub		Х
Artemisia tridentata	Big sagebrush	Native shrub		
Ceratoides lanata	Winterfat	Native shrub	х	Х
Chrvsothamnus viscidiflorus	Yellow rabbitbrush	Native shrub	X	X
Ericameria naseosus	Rubber rabbitbrush	Native shrub	x	X
Guterrezia sarothrae	Broom snakeweed	Native shrub		X
Senecio spartioides	Broomlike ragwort	Native shrub		X
			1	





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2N-30	
2N-27	
2N-37	














Photo 2: Vegetation sample collection. September, 2013





Photo 4: Vegetation and soil sampling. Winterfat plants marked with yellow pin flags. September, 2013







Appendix A Select Annotated Field Photographs





Appendix A Select Annotated Field Photographs



Photo 9: Vegetation monitoring. 1-foot cover solar area, northeast. Transect 11. Tiny grass bunches in foreground are mostly Arizona fescue. August, 2013



Photo 10: Vegetation monitoring. 1-foot cover solar area, south. Transect 18. Grass in foreground is mostly bluebunch wheatgrass. August, 2013





Photo 11: Vegetation monitoring. 2-foot cover solar area. Transect 26, middle. Rubber rabbitbrush, bluebunch wheatgrass, and yellow sweetclover in foreground. August, 2013



Photo 12: Vegetation monitoring. 2-foot cover solar area. Transect 14. August, 2013





Photo 13: Vegetation monitoring. 3-foot cover solar area, southwest. Transect 18. Plants in foreground and middle ground are mostly western wheatgrass and prickly Russian thistle. August, 2013



Photo 14: Vegetation monitoring. 3-foot cover solar area, south. Transect 24. Plants in foreground include western wheatgrass, white sagebrush, a flowering broom snakeweed, and yellow sweetclover. August, 2013





Photo 15: Vegetation monitoring. 1-foot cover non-solar area. Transect 34, middle. Sparsely vegetated area. August, 2013



Photo 16: Vegetation monitoring. 1-foot cover non-solar area, north. Transect 27. Plants in foreground include curlycup gumweed and first-year yellow sweetclover. August, 2013



Appendix A Select Annotated Field Photographs



Photo 17: Vegetation monitoring. 2-foot cover non-solar area, northeast. Transect 8. Yellow sweetclover and curlycup gumweed in foreground. Two tapes are parallel transects. August, 2013



Photo 18: Vegetation monitoring. 2-foot cover non-solar area. Transect 25, middle. Sparsely vegetated area. August, 2013





Photo 20: Vegetation monitoring. 3-foot cover non-solar area, north. Transect 30. Plants in foreground include western wheatgrass and Indian ricegrass, with a rubber rabbitbrush in middle. August, 2013





Photo 21: Vegetation monitoring. 3-foot cover non-solar area. Transect 33, middle. Plants in foreground include western wheatgrass and winterfat. August, 2013



Appendix B Sampling Field Data Sheets



Near Surface Soil Sampling

Attachment A
FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: $< vR TR - 1$	Date: 9/10/13
Samplers' Signature:	Time: 1410
Type of Sample: Surface:	Subsurface:
Composite: χ	Grab:
Sample Location Coordinates:	
Type of Surface Cover: P:+Run	
Depth Interval: 0-3"	
Weather Conditions: clowly, 5Ww.W 10-15, ~ 70°F	
Sample Description: SAND analgravel, Bone silt, trace	cobble, dase, nonplastic
Field Soil Description	
USCS Abbreviation $\leq W$	
Color 1:54 yellowish brom (10 YR 6/4)	
Staining None	
Odor Nune	
Moisture $\rho_{f\gamma}$	

Containers	Number	Preservatives
402 glass anber	2	6°C
		5

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Near Surface Soil Sampling

		Attachm	ent A	
FIELD SA	MPLING DATA SH	LEET FOR	R SURFACE MATER	RIAL SAMPLES
Sample Identification:	EVRIFTRI-	2	Date:	9/16/13
Samplers' Signature:	5.2		Time:	1445
Type of Sample:	Surface:	\times	Subsu	rface:
	Composite:	X	Grab:	
Sample Location Coordin	ates:			10 10
Type of Surface Cover:	Pithun			
Depth Interval:	0-3"			
Weather Conditions:	cloudy,	W 5-	10, ~ 70°F	
Sample Description:	Cubbles and	gravel a	nd sand, somes.	ilt, non-plushic, dense
Field Soil Description	ı		•	, in
USCS Abbreviation	GW			
Color	palebron (10%	r 6/3)		
Staining	None			
Odor	Nine			
Moisture	Piy			

Containers	Number	Preservatives
407 amberglass	2	6 % <

QA/QC Samples Collected: Sievelwitha #10 sieve, Saliguitsfrom al foot radius. Comments:

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	VRITRI-3	Date: 9/10/13
Samplers' Signature:	Se L_M	Time: 1440
Type of Sample:	Surface: X	Subsurface:
	Composite: X	Grab:
Sample Location Coordin	nates:	
Type of Surface Cover:	Pithun	
Depth Interval:	0-3"	
Weather Conditions:	cloudy, 5W 5-10, ~70°F	
Sample Description:	· · ·	
Field Soil Description	" SAND, some gravel, trace cobble	and silt, dense, nonplastic
USCS Abbreviation	ŚW	
Color pale bi	rown (10yR 6/3)	
Staining Non	e	
Odor Nm	e	
Moisture ρ_{K}	/	

Containers	Number	Preservatives
402 andarglass	2	8°C
		al and a second s

QA/QC Sam	ples Collected:		5 aliquots collected in a	
Comments:	Sieved with a	# 10 sieve	, I foot radius ,	
		/		
				-

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	VRITR2-1	Date: 9/10/13
Samplers' Signature:	5.21	Time: /600
Type of Sample:	Surface: X	Subsurface:
	Composite: X	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	P.+Run	
Depth Interval:	0-3"	
Weather Conditions:	cludy, lightran, -650K	1 1-547 5, wind
Sample Description:		
Field Soil Description	SILT and sand, sumearivel, ,	nonalastic, loose
USCS Abbreviation	ML	
Color	palebrown (10rR 6/3)	<i>a</i> .
Staining	None	
Odor	None	
Moisture	damp	

Containers	Number	Preservatives
402. Amber Glass	2	°6C

QA/QC Sam	nples Collected:
Comments:	Sieved sample with a # 10 sieve, 5 alignots from a 1' carlies area,

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	VRITR2-2	Date: 9/10/13
Samplers' Signature:	5. ml	Time: /625
Type of Sample:	Surface:	Subsurface:
	Composite: X	Grab:
Sample Location Coordin	ates:	·
Type of Surface Cover:	Pitkun	
Depth Interval:	0-3"	
Weather Conditions:	clarty, -65°F, calminus	
Sample Description:		
Field Soil Description	1 SANDEN Spevel, some silten	Jerlibles, numplistic, maliusta
USCS Abbreviation	5W	
Color	palebrown (10×R6/3)	
Staining	None	
Odor	None	
Moisture	dry	

Containers	Number	Preservatives
402, Anlarghass	2	6°C

QA/QC Samples Collected: Sievalus Ha # 10 sieve, Saliguots fraga 1'salius. Comments:

Near Surface Soil Sampling

FIELD SA	Attachment A MPLING DATA SHEET FOR SURFACE	E MATERIAL SAMPLES
Sample Identification: C	VR1 TR2-3-TOIN-SOL	Date: 9/10/13
Samplers' Signature:	anthe Ping	Time: 1630
Type of Sample:	Surface:	Subsurface:
	Composite:	Grab:
Sample Location Coordin	nates:	
Type of Surface Cover:	Pit Run	
Depth Interval: 0	-3 "	
Weather Conditions: /	ght rain, clo-dy, 65°F	
Sample Description: Sand and Gravel, Some soft, trace Cable, non-plastic		
Field Soil Description		
USCS Abbreviation		
Color HOLL	light brown (10YR	-6/4)
Staining NA		
Odor NA		
Moisture Dry		

Containers	Number	Preservatives
A oz amber slogs	Z	6°C
	···· =····· ,	

QA/QC Samples Collected: Comments: Sieved w/ # 10 sieve, 5 aliquits collected in a I-Ft radios of contar.

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVRITR3-1		Date: 9/11/13
Samplers' Signature:	5. A	Time: 1410
Type of Sample:	Surface: X	Subsurface:
· · · · · · · · · · · · · · · · · · ·	Composite: X	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	Pithun	· · · · · · · · · · · · · · · · · · ·
Depth Interval:	0-3"	
Weather Conditions:	Sunny, W 5-10, In 70's	
Sample Description:		
Field Soil Description SAND some clay and grave 1/coloble, losse,		
USCS Abbreviation 5C		
Color lightbrown (7.5YR 6/3)		
Staining Norre		
Odor	None	
Moisture	Moist	

Containers	Number	Preservatives
402. amber glass	2	6°C
9		
	i.	

milius
-

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CUR ITR 3-2-TOIN-SOL		Date: 9/11/13	
Samplers' Signature:	5.2	Time: 1445	
Type of Sample:	Surface:	Subsurface:	
	Composite: X	Grab:	
Sample Location Coordin	ates:		
Type of Surface Cover:	PitRun		
Depth Interval:	0-3"		
Weather Conditions:	50my, 5W 10-20, min 7	o's	
Sample Description:			
Field Soil Description GRAVEL (COBBLES, some Sand and clay			
USCS Abbreviation 50			
Color yellowish brown (10 m 5/4)			
Staining None			
Odor	None		
Moisture	Moist		

Containers	Number	Preservatives
402. ambrglass	2	6°C

QA/QC Sam	ples Collected:
Comments:	Sieved with a HID sieve, collected Saliguots for an avera Ministroot
of the	Sample location.
	,

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR17R3-3-701N-50L		Date: 9/11/13
Samplers' Signature:	5.21	Time: 1455
Type of Sample:	Surface: χ	Subsurface:
	Composite: χ	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0~3"	
Weather Conditions: Sump ~ 70°F, Shown 5-10		
Sample Description:	,	
Field Soil Description	BRAVEL / COBRE, Some Sand it	races-77, nomphistic, loose
USCS Abbreviation	GW	
Color	yellowish brown (10YR 5/6)	
Staining	Nore	
Odor	None	
Moisture	Muist	

Containers	Number	Preservatives
402. amberglass	2	6°C

QA/QC Sam	nples Collected:	
Comments:	Sievedwith a #10 sieve, 5 aliquots contected from an aver within I fo	- 1
of the sa	ample lo cation.	
	•	

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	WR2TRI-1	Date: 9/16/13		
Samplers' Signature:	6.21	Time: 1260		
Type of Sample:	Surface: X	Subsurface:		
а	Composite: χ	Grab:		
Sample Location Coordi	inates:			
Type of Surface Cover:	Pitkun			
Depth Interval:	0-3"			
Weather Conditions:	clowy, 5WUN 5-10, 70's			
Sample Description: GRAVEL and sand, some couplesands-It, device, amplication				
Field Soil Description				
USCS Abbreviation	GW			
Color lightyell	lassing brown (107R6/4)			
Staining	nne			
Odor	1612			
Moisture	dry			

Containers	Number	Preservatives
402 Amberglass	2	6 .
, , , , , , , , , , , , , , , , , , , ,		

QA/QC Samp	les Collected:			
Comments:	Sievely. In	#10 s. eve,	5 alignots from I fait radius.	
		,	•	
				01

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR 2TR1-2		Date: 9/16/13
Samplers' Signature:	5. 2 N	Time: 1225
Type of Sample:	Surface:	Subsurface:
	Composite:	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	P.+Rm	
Depth Interval:	0-3"	
Weather Conditions:	cludy, drizzle, 70, 5W win	J JU-20
Sample Description:	GRAVEL And sand, some silt, t.	rare robble, dense, nonplashe
Field Soil Description	1	, , ,
USCS Abbreviation	GW	
Color	1:547 yellowids brown (1078 6/4)	
Staining	поле	
Odor	Ame	
Moisture	dry	

Containers	Number	Preservatives
402 amber glass	2	6 ^e c
<u> </u>		
	-	

QA/QC Sam	nples Collected:	
Comments:	Siendwith a #10 sieve, 5 aliquits from a 1'radius.	
	/	
8		

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR2TRI-3		Date: 9/10/13			
Samplers' Signature:	5.2	Time: 1245-			
Type of Sample:	Surface: X	Subsurface:			
	Composite:	Grab:			
Sample Location Coordin	ates:	11			
Type of Surface Cover:	Pithun				
Depth Interval:	0-3"	/			
Weather Conditions:	lovely, drizzle, ~ 70, 5WWIL	n 5-15			
Sample Description: GRAVEL and sand tracesilt, dense, non-plastic					
Field Soil Description	1 , , , ,				
USCS Abbreviation	USCS Abbreviation GW				
Color lightyellowith brown (10 YR 6/4)					
Staining nine					
Odor	None				
Moisture	dy				

Containers	Number	Preservatives
402, amberglass	2	6°C
	<u></u>	

QA/QC Samples Collected: ____ Sievaluilla #10 sieve, 5 aliquets from a l'radius. Comments:

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	Date: 9/11/1 3			
Samplers' Signature:	in the second se	Time: 0745		
Type of Sample:	Surface:	Subsurface:		
	Composite: X	Grab:		
Sample Location Coordin	ates:			
Type of Surface Cover:	Pitkin			
Depth Interval:	0-3 "			
Weather Conditions:	duly, lightram, mind 50's	, H. Eund		
Sample Description:	Cobbes, some gravel, send, and c	lay Inpleshic, danse		
Field Soil Description (7.5 YR 5/3)				
USCS Abbreviation	Gent			
Color	d d	2		
Staining	Nine			
Odor	None EB. 9/1/13			
Moisture	aset moist			

Containers	Number	Preservatives
402 anthrophass	2	6 . (
	Ξ.	

QA/QC Sampl	es Collected:	-		
Comments:	Siew.m.	# 10 5. cvc ,	5 aliquits fron a l'vidios.	
		······		
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Near Surface Soil Sampling

Attachment A
FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	VK2747-2-TO[N-JOL	Date: 9/11/13 - 0 0/12/13
Samplers' Signature:	Part	Time: 745 0740
Type of Sample:	Surface: 🔀	Subsurface:
	Composite: 🗙	Grab:
Sample Location Coordin	nates:	
Type of Surface Cover:	Pit Kin	
Depth Interval:	0-3"	
Weather Conditions:	light rein, cloude, ~ 50	6°F
Sample Description:	Few coldo log some sind	1 & guavel, silt
Field Soil Description	n	/
USCS Abbreviation		
Color	Brann (7.5 YE 5/4)	
Staining	NA	
Odor	NA	1
Moisture	Moist	

Containers	Number	Preservatives
2402 amber digs	2	6° F
	Ľ	8

QA/QC Sampl	les Collected:	15		
Comments:	Sieved	J # 10	sieve	
		•	· · · · · · · · · · · · · · · · · · ·	

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	EVRZTRZ-3-TOIN-SOL	Date: 9/11/13
Samplers' Signature:	5. 2.	Time: 0820
Type of Sample:	Surface: χ	Subsurface:
	Composite:	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3 "	
Weather Conditions:	clouly, mit 50's, colon wind	
Sample Description:		•
Field Soil Description	" GRAVEL Some cobbles and sam	tracecky
USCS Abbreviation	60	
Color	Brown (7.5YR 5/3)	
Staining	Nine	
Odor	None	
Moisture	moist	

Containers	Number	Preservatives
402, Ambarslass	2	6°C
0		

QA/QC Samj	ples Collected:	
Comments:	Sieveluitha #10 sieve,	Saliguits from an alos at 1 tost ladius.
<u> </u>	/	

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	VR2TR3-1-TOIN-SOL	Date: 9/11/13
Samplers' Signature:	n roip in	Time: /220
Type of Sample:	Surface: X	Subsurface:
	Composite: X	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3"	
Weather Conditions:	cloudy, - 70°F, Calmwind	
Sample Description:		
Field Soil Description	SAND Some gave / cobbles an	icky
USCS Abbreviation	se	
Color	brown (7.5YR 4/4)	
Staining	None	
Odor	None	
Moisture	Moist	

Containers	Number	Preservatives		
tozanbr glass	2 precebsaple	6 °C		

QA/QC Samples Collected: FO Comments: Sievelwittig #10 sieve, Collected Saliquots from an area of 1' radius around the sample point.

 $\texttt{R:PROJECTS} \ \texttt{222241609_QM} \ \texttt{SOH} \ \texttt{Veg} \ \texttt{SAMP} \ \texttt{TASK} \ \texttt{01} \ \texttt{6.0} \ \texttt{PROJ} \ \texttt{DelivsOps} \ \texttt{SOP} \ \texttt{1.Doc} \ \texttt{9/5/2013} \ \texttt{2:53 PM} \ \ \texttt{1-8}$

Near Surface Soil Sampling

	Attachment A	
FIELD SAM	IPLING DATA SHEET FOR SURFACE	MATERIAL SAMPLES
Sample Identification:	URZTR3-Z-toIN	Date: 1/11/17
Samplers' Signature:	2-thi	Time: 1257
Type of Sample:	Surface: X	Subsurface:
	Composite: 🗙	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	Pit Run	
Depth Interval:	0-3"	
Weather Conditions:	Cloudy 270°, Calm We	nd
Sample Description:	SAND cal gravel, Co	obbles w/oles
Field Soil Description	SC	. /
USCS Abbreviation		
Color	brown (7.5 yr 4/	s)
Staining	None	
Odor	Non	
Moisture	moist	

Containers	Number	Preservatives
A or only glocs	2	b°c
•		
	9	

		KB -					
Comments: 514	ered w	(#(0	Sieve.	romple	from	5	elaguets
1 600+	off	Cor	ter		· 		/
							

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR2TR3-3		Date: $9/11/13$
Samplers' Signature:	5. m M	Time: 1320
Type of Sample:	Surface:	Subsurface:
	Composite:	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	P: + Run	
Depth Interval:	0-3"	
Weather Conditions:	elordy, 5W0-5, ~ 70°F	
Sample Description:		
Field Soil Description	SAND, sime gravel/ cobble and c	: ky, lowplastic, loose
USCS Abbreviation	SC	
Color	pake brown (IOYR 8/3)	
Staining	None	
Odor	None	
Moisture	moist	

	B * *		
Containers	Number	Preservätives	
402 amber skass	2	6°C	
	_		

QA/QC Sam	ples Collected: ~	
Comments:	Sieved Soit with a # 10 sieve, collected Saliquots from an New th	- 7
1 for tof	the sample location.	

10

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Near Surface Soil Sampling

Attachment A
FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR 3TR1-1		Date: 9/9/13
Samplers' Signature:	s. and	Time: /620
Type of Sample:	Surface:	Subsurface:
	Composite:	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3"	
Weather Conditions: clardy, what to's, 5 wind 10-20		
Sample Description: SANDark (ave), some cobbles and silt, non plastic, dense		
Field Soil Description		
USCS Abbreviation Hi yellowish brown (10YR 6/4) 5W		
Color	× ×	
Staining	None	
Odor	L	
Moisture	Pry	

Containers	Number	Preservatives
402 amberghss	6	°6 C

QA/QC Samp	les Collected:	MS/MSD	
Comments:	Siewww.th	\$10 sieve,	Saliquots fra 1 fd. (alis) area

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Near Surface Soil Sampling

Attachment A			
FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES			
Sample Identification:	VR3TRI-2	Date: 9/10/1.3	
Samplers' Signature:	5. 2 M	Time: 1055	
Type of Sample:	Surface: X	Subsurface:	
	Composite: X	Grab:	
Sample Location Coordin	nates:		
Type of Surface Cover:	P:tRun		
Depth Interval: 0-3"			
Weather Conditions: partly cludy, 60's, Www 5-10			
Sample Description:			
Field Soil Description GRAVEL and sand, some copples, trace sitt, dense, nonplastic			
USCS Abbreviation Hyellows bruns (10rR 4/4) GW			
Color			
Staining	None		
Odor	None		
Moisture	dry		

Containers	Number	Preservatives
402 Anber 6 hos	4	6°C

QA/QC Sam	ples Collected: 120		· · · · · · · · · · · · · · · · · · ·
Comments:	Sieval with #10 Sieve,	composite pothet from	5 aliquets within a 1'
Malius.	/	· · · · · · · · · · · · · · · · · · ·	
			······

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR3TR 1-3		Date: 9/10/13	
Samplers' Signature:	5.2 M	Time: 1/15	
Type of Sample:	Surface: χ	Subsurface:	
	Composite: X	Grab:	
Sample Location Coordir	nates:		
Type of Surface Cover:	P:+Run		
Depth Interval:	0-3"		
Weather Conditions: closely, Salwind 10-15, ~ 70°F			
Sample Description:			
Field Soil Description GRAVEL, some sand sal s. H, take robbles, lorse, nonplushe			
USCS Abbreviation	GW		
Color 1t, yelle	wish brown (lorg 6/4)		
Staining /	Ime		
Odor N	lone		
Moisture	Pey		

Containers	Number	Preservatives
402 amberslass	2	6°C

oles Collected:	Rinsake Black	K RBOI	
Sieverwith	# 10 sieve,	5 alignots from a 1 foot	redius alea,
	,		
		2	
	Six when the	Siewurth #10 sieve,	bles Collected: Rinsak Black RBO/ Siewluith #10 sieve, 5 aliguots from a 1 foot

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	Date: 9/11/13	
Samplers' Signature:	Time: \$920	
Type of Sample:	Surface: X	Subsurface:
ŝ.	Composite: χ	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3 ¹	
Weather Conditions:	suny, ~ 60°F, extra wind	
Sample Description:	Tight brown (7.5×12 8/4)	
Field Soil Description	5AND, Some clay and cubbles 1	smuel, losse, lowplastic
USCS Abbreviation	50	
Color		
Staining	None	
Odor	Mone	
Moisture	Maist	· · · · · · · · · · · · · · · · · · ·

Containers	Number	Preservatives
402 Knberghss	2	و ور
, , , , , , , , , , , , , , , , , , ,		

QA/QC Sam	ples Collected:	
Comments:	Sievelwilling #10 sieve,	5 aliquets from an averailing 1'radius.
	·	

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	EVR3TRZ-Z-TOIN-SOL	Date: 9/11/13
Samplers' Signature:	5. ml	Time: 0940
Type of Sample:	Surface:	Subsurface:
	Composite:	Grab:
Sample Location Coordin	nates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3"	
Weather Conditions:	Suny, ~ 70°F, Wind 0-	5
Sample Description:	, , , , , , , , , , , , , , , , , , , ,	
Field Soil Descriptio	" SAND, some siltand gravel,	nonplastic, lorse
USCS Abbreviation	5M	
Color read	shyellow (7.5×R 6/6)	
Staining A	lone	
Odor N	lone	
Moisture μ	10:37	

Containers	Number	Preservatives
402, anderskiss	2	6°C

QA/QC Sam	ples Collected:			· · · · · · ·	
Comments:	Sieval with q	#10 sieve,	Saliquets frong	1 foot radius as	egarand point
			·		
		8			
				· · · · · · · · · · · · · · · · · · ·	

 $\texttt{R:PROJECTS} \texttt{222241609_QM_SOIL_VEG_SAMP} \texttt{TASK_016.0_PROJ_DELIVSOPS} \texttt{SOP_1.DOC 9/5/2013 2:53 PM} \ 1-8$
Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CVR 3TR2-3- TOIN-SOL		Date: 9/11/13
Samplers' Signature: 5, 2 M		Time: /005
Type of Sample:	Surface: χ	Subsurface:
	Composite: χ	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	PitRun	
Depth Interval:	0-3"	
Weather Conditions:	cloudy, 70°F, colon wind	
Sample Description:		
Field Soil Description	SANDANJGENVEL, Some clay,	lopplastic, lease
USCS Abbreviation	SCLEB, glalis	, ,
Color	Bronn (7,5 M 5/4)	
Staining	None	
Odor	None	
Moisture	Moist	

Containers	Number	Preservatives
402 Amber Glass	2	б 'с

QA/QC Samp	les Collected:	_	
Comments:	Sievelwilly a	# 10 sirve ,	Saliquits confected from an area willying
a I fort	- radius of the	sample point,	

Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: <vr3tr3-1< th=""><th>Date: 9/11/13</th></vr3tr3-1<>		Date: 9/11/13
Samplers' Signature:	5.21	Time: 1050
Type of Sample:	Surface: χ	Subsurface:
	Composite: χ	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	P.+ Run	
Depth Interval:	0-3"	
Weather Conditions:	elowly, ~ 70°F, calmw.	nl
Sample Description:		
Field Soil Description	5 AND and clay some grave	1, Jumphistic, losse
USCS Abbreviation	5C	
Color	610m (7.57R574)	
Staining	None	
Odor	None	
Moisture	moist	

Containers	Number	Preservatives
402 amberslass	2	6°C
	······································	
	52 16	

QA/QC Sam	ples Collected: —
Comments:	Siew w. Ma #10 sieve, Collected Saliguots from al fat padios around
thesampl	epointi
	•

Near Surface Soil Sampling

Attachment A
FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification: CUR3TR3-2		Date: 7/11//3
Samplers' Signature:		Time: 1058
Type of Sample:	Surface: 🗶	Subsurface:
	Composite: 🗙	Grab:
Sample Location Coordin	ates:	
Type of Surface Cover:	Pit Run	
Depth Interval:	0-3"	
Weather Conditions:	Cloudy, 70°F, Celm Win	d
Sample Description:	SAND and Cly Some	gravel, little cobbles
Field Soil Description		
USCS Abbreviation	Brown (7.512 5/4))
Color	P 6	
Staining	rone	
Odor	none	
Moisture	moist	

Containers	Number	Preservatives
402. Amber Slass	2	6° K

	to taken in
Ift radius from center	

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Near Surface Soil Sampling

Attachment A FIELD SAMPLING DATA SHEET FOR SURFACE MATERIAL SAMPLES

Sample Identification:	CUR3TR3-3	Date: 9/11/13	
Samplers' Signature:	5.20	Time: ///0	
Type of Sample:	Surface: X	Subsurface:	
	Composite: χ	Grab:	
Sample Location Coordi	nates:		
Type of Surface Cover:	p.+Run		
Depth Interval:	0-3"		
Weather Conditions: partly clandy, -70°F, color wind			
Sample Description:	······		
Field Soil Description	on SAND Some clay.	and cobbles strace grave), lowphysic, loss	
USCS Abbreviation	5C		
Color b	rown (7.5YR 5/4)		
Staining	None		
Odor	None		
Moisture	moist		

Containers	e.b. Number	Preservatives
402, amberglass	9/11/13 26	6°<
ť		
	8	

QA/QC Samp	ples Collected:	MSIMSP	
Comments:	Siew with	#10 sieve,	collected fixe aliquets from withing 1'
Cadius of	the sample ,	point:	
L	· · ·		



SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID <u>CVFITRI-I-TOIN-PLTFAW</u> Date 9/10 2:12
Personnel Jeff Ravin John Ja Pinh
Plant type: Shrub Grass Forb
Species Artemore Inderium
Aboveground Sample X Belowground Sample
Site ID CVRITRI-I Area Tailings Facility
Location solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative <u>4</u> Bud Flowering Fruiting Senescing
Notes small plants, ar upt 1
- 4 to 3 m from curde point
Average aboveground size of sampled plants 4" with (1 if (2"), 6" with
Description of Aboveground Samples
Sampling/clipping height 1" dreve pred
Pathogens (presence, description, prevalence) —
Herbivory (presence, description, prevalence)
Visible dust
Other Description
production and the second s

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID <u>(VRI-TRI-2-TU3N-PLTAW</u> Date 9/10/13 2:53
Personnel Jeff Daven
Plant type: Shrub Grass Forb_
Species Melilotor Africalia
Aboveground Sample X Belowground Sample
Site ID <u>CIRI-TRI-L</u> Area <u>Tailings Facility</u>
Location
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative 1 Bud Flowering 5 Fruiting Senescing
Notes flash with 3 m
Average aboveground size of sampled plants (8' be' 2' with
vystehn pland is most protrate but has one vested star
Description of Aboveground Samples
Sampling/clipping height 4 chines for este branche in wirell of that 2 at 1" alo
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description On lich aller
0

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURITRI-3 - TU3N - PLT FAW	Date 9 (10) 13 3:12
Personnel J. I Bevan Jon P.	- <u>v.</u>
Plant type: Shrub Grass	Forb
Species Antemirre Induriciany	
Aboveground Sample X	Belowground Sample
Site ID CURTRI-3	Area Tailings Facility
Location	
Description of Sampled Vegetation	
Number of Individuals in Sample 5	
Phenology: Vegetative <u>~ 7</u> Bud Flower	ing [Fruiting Senescing
Notes plan in 2 m of contr	~
Average aboveground size of sampled plants	high 6° diameter
Description of Aboveground Samples	
Sampling/clipping height (
Pathogens (presence, description, prevalence)	
Herbivory (presence, description, prevalence)	
Visible dust	
Other Description ~ 3 ~ fm	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID _ (V&1 - TR2-1 - TO3N - PLT FAW Date 9/10/13 3:38
Personnel JEP Devre Jon Pill
Plant type: Shrub Grass Forb
Species Kililoha efficiela
Aboveground Sample_X Belowground Sample
Site ID Cut 1 - TR2-1 Area Tailings Facility
Location Jula
Description of Sampled Vegetation
Number of Individuals in Sample 5
Phenology: Vegetative Bud Flowering <u>~</u> Fruiting Senescing
Notes flad within 2.5 m of combe proster
Average above ground size of sampled plants $(8^{\circ} \times 18^{\circ})$
Description of Aboveground Samples
Sampling/clipping height 2 lage - J. Je browne stoges 3 male and at T
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description - 3 5 5-

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURITR2-2-TO 3N-PLTFOR Date 9/10/13 4:52
Personnel JEF Davis Jon Pint
Plant type: Shrub Grass Forb_
Species tel loter efficiatio
Aboveground Sample X Belowground Sample
Site ID CVR TR2-1 Area Tailings Facility
Location Solar
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes for all with 2 m
Average above ground size of sampled plants $(5 - b - 3 - 3 - 18 - b - 3 - 3 - 18 - b - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3$
Description of Aboveground Samples
Sampling/clipping height why 1 In grad
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description
10

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CRUTTA 2-3-TUSN-PLTAN Date 9/10/13 4:25
Personnel Jeff Damm
Plant type: Shrub Grass Forb_
Species Keliloter of Cinator
Aboveground Sample X Belowground Sample
Site ID CVRITR2-3 Area Tailings Facility
Location Solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes all with 2 m
Average aboveground size of sampled plants 18 hal 18 with
Description of Aboveground Samples
Sampling/clipping height (" above preme - John mile branche that a
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description ~ 43

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURITR 3-1 TU3N OLTENN Date Ships 2-20
Personnel Jeff Davie Jon Pint
Plant type: Shrub Grass Forb
Species rulilados officinados
Aboveground Sample X Belowground Sample
Site ID <u>CV&1503-1</u> Area <u>Tailings Facility</u>
Location was - solar
1
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative <u>1</u> Bud Flowering <u>2</u> Fruiting Senescing <u>1</u>
Notes to 5 m any he gent bychefor very sparce at this
Average aboveground size of sampled plants flowering and some prop 2' bot X 2 ft wide voyedim (12 year)
Description of Aboveground Samples
Sampling/clipping height has man show
Pathogens (presence, description, prevalence) one worky lend _ , 211 som. St.
Herbivory (presence, description, prevalence)
Visible dust
Other Description 28 gr

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CRVITR2-2 JO3N PUTFAW Date 9/11/15 2-35
Personnel J.D. Davim Jon Pinh
Plant type: Shrub Grass Forb
Species techilotro friendlo
Aboveground Sample X Belowground Sample
Site ID Craines - Area Tailings Facility
Location Mm - sala
Description of Sampled Vegetation Number of Individuals in Sample
Phenology: Vegetative <u>3</u> Bud Flowering Fruiting Senescing
Notes in 5 meters and ha your vijedeting
Average aboveground size of sampled plants levery 2' hgh x 3' work
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 35 f-

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2-TR 1-1-TU3N-PLTFAW Date S/10/13 11:51
Personnel JJF Davin, Jen P.n.
Plant type: Shrub Grass Forb
Species Mulilature Aficinaly
Aboveground Sample X Belowground Sample
Site ID CVR2 - JRI-1-TOIN-PLTFAW Area Tailings Facility
Location selan
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative Bud <u>*</u> Flowering <u>5</u> Fruiting <u>1</u> Senescing
Notes plast have a way of braking, Slovend, Franking, - man by
- Juainer Plan 2 meder
Average aboveground size of sampled plants 22 July 18 diamake
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description medin sized plat

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID _ AT CVA2TAL-2-TUSN-PLTADW Date \$/10/13 12-22
Personnel Jelf Daving Fritzen Pink
Plant type: Shrub Grass Forb
Species protecnistic Jude rivers
Aboveground Sample X Belowground Sample
Site ID CVR2-TRI-V Area Tailings Facility
Location Suler
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting Senescing Notes 6 11 10 2 10
Average aboveground size of sampled plants (2 Jali 4 diamater
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) —
Visible dust
Other Description Cherry John

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVP2TP2-1-TE3N-PLTFAN Date 5/1/13 5-1
Personnel Jeff Devin & Jra Pink
Plant type: Shrub Grass Forb
Species Artemps Indevicient
Aboveground Sample X Belowground Sample
Site ID Area Tailings Facility
Location Jele
Description of Sampled Vegetation
Number of Individuals in Sample5
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes_ 2 scription with inflorence
tesm
Average aboveground size of sampled plants 8 6 4
- 2 are perile of sterre 1' It diamter, 3 are sterre por sight at
Description of Aboveground Samples
Sampling/clipping height 1 war from d
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 40 gm

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLÉCTION DATA SHEET

Sample ID CVKLTR2-2 -TU3N-HLTAN Date 9/11/13 5-39
Personnel JEFF Person Jek Pitch
Plant type: Shrub Grass Forb_
Species Meliletus efficiendes
Aboveground Sample X Belowground Sample
Site ID CVG2 TR2-2 Area Tailings Facility
Location JAar
Description of Sampled Vegetation
Number of Individuals in Sample5
Phenology: Vegetative Bud Flowering / Fruiting / Senescing
Notes all in 2 m
Average aboveground size of sampled plants 18th 15 th 15 th
Description of Aboveground Samples
Sampling/clipping height direntic cit at main she
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) —
Visible dust
Other Description lady lugs 33 gr

R/PROJECTS/22242713_2012_QM_PROG_SUPPORITASK_01/7.0_PROJECT_WORKING_FILESAUGUST 2013 SOIL_VEG SAMPLINGIFIELD FORMS/SAMPLING FORMS/PLANT SAMPLE DATA

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CRV 2 TA 23 -TV3 N-PLTEAM	Date 3/11/13 5=17	
Personnel JA Deven, Ja	P.vt	
Plant type: Shrub Grass	Forb	
Species hulity flinely		
Aboveground Sample <u>X</u>	Belowground Sample	
Site ID CVR 2 TR 2-3	Area Tailings Facility	
Location sela		
Description of Sampled Vegetation		
Number of Individuals in Sample 5		
Phenology: Vegetative Bud Flower	ring Fruiting Senescing	
Notes to 3 m . Jame Frank		
Average above ground size of sampled plants 2^{1}	high 3' Signahar	
Description of Aboveground Samples		
Sampling/clipping height Int at	man sten	
Pathogens (presence, description, prevalence) 3	dud Mcospland with	
3 m of point - not sampled the years provid		
Herbivory (presence, description, prevalence)		
Visible dust	-	
Other Description 27 gr . serge 2	Ind very healty	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID <vk2-tr3-1 (-61<="" 11="" 13="" 9="" date="" th="" to3n-plte=""></vk2-tr3-1>		
Personnel J. M. Davison		
Plant type: Shrub Grass Forb_		
Species Melilater officiely		
Aboveground Sample X Belowground Sample		
Site ID <u>CVRLTR3-1</u> Area <u>Tailings Facility</u>		
Location how so low		
Description of Sampled Vegetation		
Number of Individuals in Sample <u>4</u>		
Phenology: Vegetative 2 Bud Flowering 2 Fruiting Senescing Notes plant in the senescing in the senescing in the senescing is a senescing is a senescing in the senescing in the senescing is a senescing in the senescing in the senescing in the senescing is a senescing in the s		
Average aboveground size of sampled plants Revery plats 2' July 2' dianeter		
Description of Aboveground Samples		
Sampling/clipping height (* Sam Sam		
Pathogens (presence, description, prevalence)		
Herbivory (presence, description, prevalence)		
Visible dust		
Other Description 50 gm		

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

CVR1 TRS-2 TO3P	-PLTFAW	
Sample ID GULZ TR3 -2 - Jos	N-PLTFor Date 9/11/13 (:24	
Personnel Jeff Davien 5	on Prol	
Plant type: Shrub Gr	ass Forb 🛩	
Species Mulileto Phone	alis	
Aboveground Sample X	Belowground Sample	
Site ID CVAL TR3-L	Area Tailings Facility	
Location		
Description of Sampled Vegetation		
Number of Individuals in Sample	5	
Phenology: Vegetative Bud	Flowering Fruiting Senescing	
Notes 15° In 2 m.		
Average aboveground size of sampled pl	lants (5" fell 18" dramater	
Description of Aboveground Samples		
Sampling/clipping height 1 ⁴		
Pathogens (presence, description, preval	ence) 2 mostly deal trange of	
2 m - not sended		
Herbivory (presence, description, prevalence) —		
Visible dust		
Other Description 26 me and	, write . all Merd here alway	
produced seed, they	marker at Rovers and day most	
that		

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CUR 2 TE3-3- TOON-107PAN Date 9/113 (:45
Personnel J.A. Dowson, Jan Row
Plant type: Shrub Grass Forb
Species Militar officendo
Aboveground Sample X Belowground Sample
Site ID CVR 2 TR 3-3 Area Tailings Facility
Location
Description of Sampled Vegetation
Number of Individuals in Sample 5
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes in 3 miles
Average aboveground size of sampled plants <u>X (8 hack 10 with</u>
Description of Aboveground Samples
Sampling/clipping height eligit of main show
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description hs/hlo allader 25-27 gar an

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRJ TRI-I-TUJHPLTFANDate 9/9/	3 3=45
Personnel JSS Devin	
Plant type: Shrub Grass Forb	/
Species Artemara Indoriciano	
Aboveground Sample X Belowground	d Sample
Site ID Area Tailing	s Facility
Location	
	N
Description of Sampled Vegetation	
Number of Individuals in Sample5	
Phenology: Vegetative Bud Flowering I	Fruiting <u>Senescing</u>
Notes MS/NSO - 3 beer 30-50	fm-
All plant on 2m	
Average above ground size of sampled plants $12 - 24^{\circ}$	
4 of 5 plants relatively laupe a	hover h
Description of Aboveground Samples	
Sampling/clipping height	
Pathogens (presence, description, prevalence)	rrd
Herbivory (presence, description, prevalence) with abrease	el
Visible dustNo	
Other Description	

R.VPROJECTS/22242713_2012_QM_PROG_SUPPORTASK_0117.0_PROJECT_WORKING_FILES/AUGUST 2013 SOIL_VEG SAMPLING/FIELD FORMS/SAMPLING FORMS/PLANT SAMPLE DATA

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR 3 TAL-2- TO3N- PLTFAW Date 9/9/13 4:55
Personnel Jeff Davisa Jon Pink
Plant type: Shrub Grass Forb_
Species Andenisia Ludeviciane
Aboveground Sample X Belowground Sample
Site ID CYR3 -TRI-L Area Tailings Facility
Location 1. lev
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative 🗸 Bud Flowering Fruiting Senescing
Notes 2 other in Rover net samples because single stemmed
All plands within 2 m
Average aboveground size of sampled plants 3 -9 in a dram dram of man
2 to 6 monu high ,
Description of Aboveground Samples
Sampling/clipping height 1 25 - 5
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description healthy

R: PROJECTS 22242713_2012_OM_PROG_SUPPORTASK_0117.0_PROJECT_WORKING_FILES AUGUST 2013 SOIL_VEG SAMPLING FORMS SAMPLING FORMS PLANT SAMPLE DATA

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURTTRI -3 - TO3N-PLTFAW	Date 9/14/13 155+ (1-87
Personnel Suff Daven Jon Poul	
Plant type: Shrub Grass	Forb
Species Grindelia squarrese	
Aboveground Sample X	Belowground Sample
Site ID <u>EVF3 - TR(-3</u>	Area Tailings Facility
Location Soler	
Description of Sampled Vegetation	
Number of Individuals in Sample 3	
Phenology: Vegetative Bud Flower	ring Fruiting Senescing
Notes any 3 plans in 2 m. rodins	nost an is 4 m
Average aboveground size of sampled plants(s`	" Ly 2' R diamak - 200 Raver
Description of Aboveground Samples	
Sampling/clipping height dige side shade	of man string cluse to stan and
Pathogens (presence, description, prevalence)	finally 8" est from
Herbivory (presence, description, prevalence)	
Visible dust	
Other Description by healthy plants, live	sten, 1/4" diameter and wordy.
Philippoph taken	
N Contraction of the second se	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID <u>(VK3 TK 2-1 - JV3 N-1 KT FAW</u> Date <u>S 11/13</u> 2:52
Personnel Jeff Deven Jon Pinh
Plant type: Shrub Grass Forb
Species febrale trager
Aboveground Sample X Belowground Sample
Site ID <u>CYESTEL</u> Area <u>Tailings Facility</u>
Location
Description of Sampled Vegetation
Number of Individuals in Sample 8
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes all with 2m
Average aboveground size of sampled plants and plants of the hold
Description of Aboveground Samples
Sampling/clipping height 1 above group
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 25 5~

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3 TAL-2-TE3N-PLTPW I	Date 9/11/12 10=66
Personnel JSA Dawa	
Plant type: Shrub Grass	Forb
Species Solution trapes	
Aboveground Sample X E	Belowground Sample
Site ID CRV3 TR 2-2 A	area Tailings Facility
Location	
Description of Sampled Vegetation	
Number of Individuals in Sample	
Phenology: Vegetative Bud Flowering	g Fruiting Senescing
Notes Cland within 2 m	
Average aboveground size of sampled plants	high 6' will
Description of Aboveground Samples	
Sampling/clipping height 1 - June grow)
Pathogens (presence, description, prevalence)	
Herbivory (presence, description, prevalence)	
Visible dust	
Other Description 26	
	A

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVA3 JR 2-3 - JE3N - FLTFAN Date 5/4/12 (5:33
Personnel Jeff Devan Jan Inch
Plant type: Shrub Grass Forb
Species traliter of Canalis
Aboveground Sample X Belowground Sample
Site ID <u>CVR3 TR2-3</u> Area <u>Tailings Facility</u>
Location Solow
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes in lu
Average aboveground size of sampled plants 3' with 3' with
Description of Aboveground Samples
Sampling/clipping height d. to a vit man to stan
Pathogens (presence, description, prevalence) 1 1 2 1 2 1 2 1 2 4
songled has I side deal
Herbivory (presence, description, prevalence)
Visible dust
Other Description 28 5~

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3 TR3 -1 - TSIN - PLTFAW Date 9/11/13 11-21
Personnel JSF Dawa John Pinh
Plant type: Shrub Grass Forb_
Species Selsele Junio
Aboveground Sample X Belowground Sample
Site ID Area Tailings Facility
Location non-solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering <u><</u> Fruiting Senescing
Notes in 3 m , all at doct pour distance
Average aboveground size of sampled plants 9" have 2" worde have
Description of Aboveground Samples
Sampling/clipping height here she
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 33 gr Brichy
ť

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVK3 TK3-2- TO3N-PUTFAWDate 5/11/13 11-42
Personnel JEFE Dewen John Proh
Plant type: Shrub Grass Forb_
Species Artemaix Indericians
Aboveground Sample X Belowground Sample
Site ID <u>CVR3 TR3-</u> Area <u>Tailings Facility</u>
Location An Islan
Description of Sampled Vegetation
Number of Individuals in Sample5
Phenology: Vegetative <u><u></u> Bud <u>Flowering</u> Fruiting <u>Senescing</u></u>
Notes i 4 m.
Average aboveground size of sampled plants 3-10 12 Jall 6 wide
very midendly
Description of Aboveground Samples
Sampling/clipping height_ 1 st class grant
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 35 gr

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID _ CV&3 TF3-3 TO 3N-P (TFAN Date 9/11) 12:07	
Personnel JSP Dawa	
Plant type: Shrub Grass Forb	
Species Salsale trade	
Aboveground Sample X Belowground Sample	
Site ID CVN 3 TN 3-3 Area Tailings Facility	
Location was-selve	
Description of Sampled Vegetation	
Number of Individuals in Sample5	
Phenology: Vegetative Bud Flowering Fruiting Se	nescing
Notes all in 2 n	
Average aboveground size of sampled plants (2° high & dramehouse <u>Ivergete in the presence</u> , <u>bench</u> <u>Description of Aboveground Samples</u> Sampling/clipping height (° drame drame Pathogens (presence, description, prevalence) – Herbivory (presence, description, prevalence) –	
Visible dust	
Other Description 33 gr	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRI TRI-I-TO2N-PLTGAW Date 9/10/13 2:32
Personnel Tiff Devin
Plant type: Shrub Grass X Forb
Species Percepyrum santhi;
Aboveground Sample X Belowground Sample
Site ID Area Tailings Facility
Location
Description of Sampled Vegetation
Number of Individuals in Sample8
Phenology: Vegetative 571 Bud Flowering Fruiting Senescing
Notes Clanter within 3 m
Average aboveground size of sampled plants 10" has fine for the 8-12-
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) -
Visible dust
Other Description 35 gm w/ 19

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURITRI-2-TO2N-PLTCAW D	vate 8/10/13 3:04
Personnel Jeff Barran Jon Pi	nh
Plant type: Shrub Grass_	Forb
Species les opyrun miti	- /
Aboveground Sample X B	elowground Sample
Site ID CVRITRI-2 A	rea <u>Tailings Facility</u>
Location syler	
Description of Sampled Vegetation	
Number of Individuals in Sample 🛛 😤 🤊	N. Contraction of the second se
Phenology: Vegetative <u>8</u> Bud Flowerin	g Fruiting (Senescing
Notes alander w. High 4 m.	
Average aboveground size of sampled plants	in this durter
2ª 1.	
Description of Aboveground Samples	
Sampling/clipping height	
Pathogens (presence, description, prevalence) —	
······································	
Herbivory (presence, description, prevalence)	
Visible dust	
Other Description	var
- · · · · · · · · · · · · · · · · · · ·	

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRITRI-3-TOLN-FLTEN Date 9/10/13 3-20
Personnel Jeff Barran Jon Pink
Plant type: Shrub Grass Forb
Species Canopyrum mothis
Aboveground Sample X Belowground Sample
Site ID CVRITRI-3 Area Tailings Facility
Location Colem
Description of Sampled Vegetation
Number of Individuals in Sample 8
Phenology: Vegetative <u>/</u> Bud <u>Flowering</u> Fruiting <u>Senescing</u>
Notes Plants in - 3 m
Average aboveground size of sampled plants 7" small charge and churcher
Description of Aboveground Samples
Sampling/clipping height (
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 39 gm

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRITR21-TO2N-PLTCAW Date 9/11/13 3:48
Personnel Joh Dowron Jon Pink
Plant type: Shrub Grass Forb
Species frendringenie spicote
Aboveground Sample X Belowground Sample
Site ID CVEI TE2-1 Area Tailings Facility
Location Seler
Description of Sampled Vegetation
Number of Individuals in Sample7
Phenology: Vegetative 4 Bud Flowering Fruiting 3 Senescing
Notes Friding plant bare already drapped most of sue plant within 2m
Average aboveground size of sampled plants <u>G by 3 wide</u>
Description of Aboveground Samples
Sampling/clipping height <u>" clare ymal</u>
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description ~ 28 gm
•

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID <u>CVRI-TR2-2-TO2N-PUTCHN</u> Date <u>S/10/13</u> 4-08
Personnel Jeff Derm Jon Pink
Plant type: Shrub Grass_
Species francisco operation of ant
Aboveground Sample X Belowground Sample
Site ID Area Tailings Facility
Location
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative <u>~</u> Bud <u></u> Flowering <u></u> Senescing <u></u>
Notes <u>cli in in</u>
Average aboveground size of sampled plants 4" by 3" signals
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 26 3

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CKRITR2-3-TOIN-PLTGAW Date 9/10/13 4:38
Personnel Jeff Down
Plant type: Shrub Grass Forb
Species lescopyrum smithi.
Aboveground Sample X Belowground Sample
Site ID CKLI-TRI-3 Area Tailings Facility
Location color
Description of Sampled Vegetation
Number of Individuals in Sample,
Phenology: Vegetative <u>V</u> Bud Flowering Fruiting Senescing
Notes widely scottand . "plants" are leave during
ell in 2 m
Average aboveground size of sampled plants 8
Description of Aboveground Samples
Sampling/clipping height 1° den growd
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 25 gr

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CV& IT& 3-1 TOUMBLE GAW Date 9/11/13 225
Personnel Joseph Jon Pint
Plant type: Shrub Grass Forb
Species Crudenegnes giude
Aboveground Sample X Belowground Sample
Site ID <u>(V(I)Th3-)</u> Area <u>Tailings Facility</u>
Location non-sele
Description of Sampled Vegetation
Number of Individuals in Sample7
Phenology: Vegetative 7 Bud Flowering Fruiting Senescing
Notes all in 5 on anost last which was at 6 m.
Jeny sparse an
Average aboveground size of sampled plants 4 July 2 That
Evel plant
Description of Aboveground Samples
Sampling/clipping height 1' elser prod
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 21 gm

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Plant Sample Collection

	A	ttachment A		
PLANT	SAMPLE	COLLECTION	DATA	SHEET

Sample ID CULITA3-2 TU2N-PETER Date 9 (11/13 2743
Personnel Self Davan Jon P.N
Plant type: Shrub Grass Forb
Species Pasapyrum emitte
Aboveground Sample X Belowground Sample
Site ID CVCVTF3-L Area Tailings Facility
Location non-sela
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative 4 Bud Flowering Fruiting C Senescing
Notes of within 4 m
sparsely rejected on
Average aboveground size of sampled plants 6 hgh 6 wide spore
Jung.
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description <u>30 gm</u>

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CV&I TR 3-3 JON - PLTEAW Date S/11/13 2:58
Personnel John tor fint
Plant type: Shrub Grass Forb
Species france spreak
Aboveground Sample X Belowground Sample
Site ID CVRITE3-3 Area Tailings Facility
Location un -sola
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative 8 Bud Flowering Fruiting Senescing
Notes within 3 m
Average aboveground size of sampled plants 5' bill 3' withe
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 21 gran

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2TR1-2-TOLN-PLTCHW Date 1/10/13 12:34
Personnel Jeff Deview, Jon ford
Plant type: Shrub Grass Forb
Species larger sonthis
Aboveground Sample X Belowground Sample
Site ID <u>LVK 2 TRI-1</u> Area <u>Tailings Facility</u>
Location
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative <u>4</u> Bud Flowering Fruiting Senescing Senescing
Notes & planty to 4 m from center print
Average aboveground size of sampled plants <u>5' L11 marther served fromy</u>
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) –
Visible dust
Other Description Juna city gave reg of this low to

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2TR1-3-TO2N-PLTGAW Date 9/10 12:50
Personnel Jeff Daving Jon Bach
Plant type: Shrub Grass Forb
Species faronne smithi
Aboveground Sample X Belowground Sample
Site ID URDIR 1-3 Area Tailings Facility
Location
Description of Sampled Vegetation
Number of Individuals in Sample 8
Phenology: Vegetative] Bud Flowering Fruiting Senescing
Notes up to Sm fra cet at in order to get anough plant
material
Average aboveground size of sampled plants 8 July 1 Jo Level Jore pt
in a are up to 1-2' vide
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence) -
Herbivory (presence, description, prevalence)
Visible dust
Other Description Incll, wider Scotland Jund

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Plant Sample Collection

Attachment A
PLANT SAMPLE COLLECTION DATA SHEET
CUR 2+12-1-TOZA-PLTENU
Sample ID <<< > 24 TR2-1 tes - PLTCOW Date Shills 8:27
Personnel Jeff Down To P.ul
Plant type: Shrub Grass Forb
Species Barcopyrum m. Mii
Aboveground Sample X Belowground Sample
Site ID CVR 2 TR 2-1 Area Tailings Facility
Location selen
Description of Sampled Vegetation
Number of Individuals in Sample7
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes all in 2 m
Average aboveground size of sampled plants filicge 12", Rowing when h 18"
Petcher 8° diench
Description of Aboveground Samples
Sampling/clipping height (* escreption)
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) —
Visible dust
Other Description healthy reburt glands 23 gen red
Chete John

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

+ MS/MSD		
Sample ID CVK2TR2-2-TE2N-PLTCAN Date = [11/13 8:50		
Personnel Jeff Darm Jon Bing		
Plant type: Shrub Grass Forb		
Species Carapyron smithi		
Aboveground Sample X Belowground Sample		
Site ID CILL TRU-L Area Tailings Facility		
Location Seler		
Description of Sampled Vegetation		
Number of Individuals in Sample7		
Phenology: Vegetative Bud Flowering Fruiting Senescing		
Notes All in 2 m		
Average aboveground size of sampled plants 10" Ryh Lligge, only, to 18" Ictohe clast 1 A diameter strong harts ful		
Description of Aboveground Samples		
Sampling/clipping height (" a sex promet		
Pathogens (presence, description, prevalence)		
Herbivory (presence, description, prevalence) —		
Visible dust		
Other Description about 30 pm 2 and In 3 Jags		

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CURLTA2-3-JELN-BUTTAN Date 9/1/13 513
Personnel Jeff Dawn Jan Prol
Plant type: Shrub Grass Forb
Species Brender a your 2 18, when
Aboveground Sample X Belowground Sample
Site ID <u>CYP 2 TR 2-3</u> Area <u>Tailings Facility</u>
Location s.ler
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative <u>&</u> Bud Flowering Fruiting <u>Senescing</u>
Notes for 25 m only an great sample took almy
Average aboveground size of sampled plants filing. 6" culor + 16"
Description of Aboveground Samples
Sampling/clipping heightt
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 26 gr

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2TR3-1-TO2N-PUT	Date 9/11/13 (:10 Pm
Personnel JSP Davism	
Plant type: Shrub Grass_	Forb
Species Prendonsegnerin spicete	
Aboveground Sample X	Belowground Sample
Site ID WALTE3-1	Area Tailings Facility
Location new solar	
	· · · · · · · · · · · · · · · · · · ·
Description of Sampled Vegetation	
Number of Individuals in Sample $\underline{\leftarrow 50}$	200
Phenology: Vegetative <u>I</u> Bud Flowe	ering Fruiting 54 Senescing
Notes sad have here shatered. a	ales are in large for an
when I vegetiler individual.	All pland with the
Average aboveground size of sampled plants \sum	Trychapht 6" when 15"
dismede 4th	
Description of Aboveground Samples	
Sampling/clipping height 1 dan grand	,
Pathogens (presence, description, prevalence)	
Herbivory (presence, description, prevalence) –	
	<u> </u>
Visible dust	
Other Description 26 Jm	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2 TR3-2-TO2K-BLTCHW Date 5/11/13 1:33
Personnel SA Davan Son finh
Plant type: Shrub Grass Forb
Species fluido acquera spicato
Aboveground Sample X Belowground Sample
Site ID Crf2 TR3-2 Area Tailings Facility
Location on - soler
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative S Bud Flowering Fruiting Senescing
Notes when 4 m
Average aboveground size of sampled plants 5 " July 3" wite
smell
Description of Aboveground Samples
Sampling/clipping height 1" January
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 27 gm

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2TR3-3 TOIN-PUTCH Date 5/11/13 133
Personnel Jeff Devin
Plant type: Shrub Grass Forb
Species <u>Parageron</u> smithti
Aboveground Sample X Belowground Sample
Site ID CVR 2 JR 3 -3 Area Tailings Facility
Location Non - Folon
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative <u>S</u> Bud Flowering Fruiting <u>3</u> Senescing
Notes within 3 m
Average aboveground size of sampled plants <u>b' high small spore with</u>
Description of Aboveground Samples
Sampling/clipping height 1> prod
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 27 pm sample pt & located in molfied driving
and a word now -solar 2 fact

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRJTRt-1-TUSN-PLTCH Date 9/09/13 4:08
Personnel Jeff Dawron John Pirk
Plant type: Shrub Grass_X Forb
Species Perceptun mithi
Aboveground Sample X Belowground Sample
Site ID <u>(VR3 JFI-)</u> Area <u>Tailings Facility</u>
Location
Description of Sampled Vegetation
Number of Individuals in Sample 5
Phenology: Vegetative V Bud Flowering Fruiting Senescing Notes 2 in Frit, 3 rychtre Plant within 2 m
Average aboveground size of sampled plants Small patran 6-12 in diameter
Description of Aboveground Samples
Sampling/clipping height 1" alere ground
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) wome
Visible dust
Other Description health.

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3-TR1-2-TO2N-PUTCAW Date \$12/13 5:08
Personnel Jeff Dewin, Jon Pink
Plant type: Shrub Grass Forb
Species Caragyrum anothis
Aboveground Sample X Belowground Sample
Site ID CUR 3-TRI-L Area Tailings Facility
Location Solor
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative <u> </u> Bud <u> </u> Flowering <u> </u> Fruiting <u> Senescing</u>
Notes, 3 of & her inflorence allected
Average aboveground size of sampled plants Fries (", Prve.y unling 18" 3
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence) —
Herbivory (presence, description, prevalence)
Visible dust
Other Description one of 6 Las 20% yellow lvs

R. PROJECTS 22242713_2012_QM_PROG_SUPPOR TASK_0117.0_PROJECT_WORKING_FILES AUGUST 2013 SOIL_VEG SAMPLING FORMS SAMPLING FORMS PLANT SAMPLE DATA

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID (VR3 - TR1-3 - TO2K - PLTEN Date 9/10 (1:34
Personnel JSF Barren Jen P.M.
Plant type: Shrub Grass_X Forb *
Species Parcopyrum surthing
Aboveground Sample X Belowground Sample
Site ID <u>CRV3-7R1-3</u> Area <u>Tailings Facility</u>
Location_solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative <u> </u> Bud <u> </u> Flowering <u> </u> Fruiting <u> </u> Senescing
Notes 4 of 8 and fracting alms
Plants within 2 m
Average aboveground size of sampled plants 8 high filmer 18 within
dustice of growing the 8 to 12" diancher.
Description of Aboveground Samples
Sampling/clipping height to character the second
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description gross watter sparse at the least, plant healthy
but med velocit.

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CRA3 TR 2-1-TERN-PUTCAM Date 9/11/13 10207
Personnel JAP Dava
Plant type: Shrub Grass_ Forb
Species larger min
Aboveground Sample X Belowground Sample
Site ID <u>cur3 tr2-1</u> Area Tailings Facility
Location to caler
Description of Sampled Vegetation
Number of Individuals in Sample7
Phenology: Vegetative <u>3</u> Bud Flowering Fruiting Senescing
Notes all in 2 m
Average aboveground size of sampled plants Folige = & may, which is the same diameter bealty
Description of Aboveground Samples
Sampling/clipping height " erec grand
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 26 3m

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVA3 TR 2-2 - T92N - PUTEN Date 9/11/12 1415
Personnel Jeff Davin Jer Pinh
Plant type: Shrub Grass Forb
Species las copyrum smithi
Aboveground Sample X Belowground Sample
Site ID CVR3 TR22 Area Tailings Facility
Location
Description of Sampled Vegetation
Number of Individuals in Sample 5
Phenology: Vegetative 4 Bud Flowering Fruiting 4 Senescing
Notes all in 2 meters
Average aboveground size of sampled plants 12° Slige high color- for 18
danse for la pic days & diameter
Description of Aboveground Samples
Sampling/clipping height (~
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 25 grad
- 0

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR 3 TR 2-3 -Joik-15 Town Date 9/11/13 (0:39
Personnel J.P. Davie Jon P. M.
Plant type: Shrub Grass_
Species prendencyment opicale
Aboveground Sample X Belowground Sample
Site ID CVR3 TR2-3 Area Tailings Facility
Location Iden
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting 5 Senescing
Notes all in 2 m. Gauger is all filinge
Average aboveground size of sampled plants <u>Solveye</u> 8" Ligh under the
Description of Aboveground Samples Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 24 8-

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVK 3 TK3-1 -TG2N -PUTFAN Date 5/11/13 11-28
Personnel J. J. Oanich John Jul
Plant type: Shrub Grass Forb
Species far copyran In: Mr.
Aboveground Sample X Belowground Sample
Site ID Cr & 3 - T & 3 - 1 Area Tailings Facility
Location non-sela-
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting <u></u> Senescing
Notes all in 2 m
Average aboveground size of sampled plants 12th Liph Stringe, when 18th
Description of Aboveground Samples
Sampling/clipping height 1° cherry grand
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 3 5 gm

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3 TR3-2-JOZN-MITER Date 9/11/13 11:45
Personnel JAP Down Jan Pinh
Plant type: Shrub Grass Forb
Species foragerna smithin
Aboveground Sample X Belowground Sample
Site ID <u>CVN3 TN3-2</u> Area <u>Tailings Facility</u>
Location non - solar
Description of Sampled Vegetation
Number of Individuals in Sample5
Phenology: Vegetative / Bud Flowering 4 Fruiting Senescing
Notes All 1 2 nden
Average aboveground size of sampled plants 12 has 21 has almost 18"
agen to dance 8" diemeter
Description of Aboveground Samples
Sampling/clipping height (c) manual
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description 2 5

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVP3 TF3-3-Jo2N-PUTGD Date 911113 12:08
Personnel John JSP Davie Jan Binh
Plant type: Shrub Grass Forb
Species Achnotherun bymanoita
Aboveground Sample X Belowground Sample
Site ID CVR3 TR3-3 Area Tailings Facility
Location non solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering Fruiting
Notes all in 3 m
Average aboveground size of sampled plants (4" high 9" dremater
all healthy the very on size
Description of Aboveground Samples
Sampling/clipping height
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description that tehn 27 pm

R. PROJECTS 22242713_2012_QM_PROG_SUPPORITASK_0117.0_PROJECT_WORKING_FILES AUGUST 2013 SOIL_VEG SAMPLING FIELD FORMS SAMPLING FORMS PLANT SAMPLE DATA

SOP NUMBER 6.0

Elogoto St

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID _ CV & 2 TR 2-1 - TOY N - CLTSAW Date 9/1/13 8:05
Personnel Jef Dewn
Plant type: Shrub Grass Forb
Species Cuctorde Laneta
Aboveground Sample_X Belowground Sample
Site ID Area <u>Tailings Facility</u>
Location
Description of Sampled Vegetation Multiple Number of Individuals in Sample 3
Phenology: Vegetative / Bud Flowering Fruiting Senescing Notes 7 3 m
Average aboveground size of sampled plants small plants 8" 1 x 4 In J.
Description of Aboveground Samples
Sampling/clipping height 1' door prove
Pathogens (presence, description, prevalence) 3 show die best of Jung ment
Herbivory (presence, description, prevalence)
Visible dust
Other Description 26 gm

R. PROJECTS/22242713_2012_OM_PROG_SUPPORTASK_01/7.0_PROJECT_WORKING_FILES/AUGUST 2013 SOIL_VEG SAMPLING/FIELD FORMS/SAMPLING FORMS/PLANT SAMPLE DATA

SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2 TR2-2-JOHN-PUT.	5 m Date 9/11/13 835			
Personnel JEFF Davin Jon	f:			
Plant type: Shrub / Grass	Forb			
Species Carolan at				
Aboveground Sample X Belowground Sample				
Site ID CV& 2 7 A 2 - 2	Area Tailings Facility			
Location Seler				
Description of Sampled Vegetation				
Number of Individuals in Sample4				
Phenology: Vegetative <u>L</u> Bud Flow	wering <u> </u> Fruiting Senescing			
Notes 5. 4 m				
Average aboveground size of sampled plants	10° hyl. St dren der			
Description of Aboveground Samples				
Sampling/clipping height				
Pathogens (presence, description, prevalence)	/			
Herbivory (presence, description, prevalence)	-			
Visible dust				
Other Description small but here they	plant			

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Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR2 JR2-3- TOYN-PLTSAW Date 9/11/12 9:08			
Personnel Jeff Darrow Jen Pinh			
Plant type: Shrub Grass Forb			
Species pricemente pouseosa			
Aboveground Sample X Belowground Sample			
Site ID CVE 2 TE 2 -3 Area Tailings Facility			
Location			
Description of Sampled Vegetation			
Number of Individuals in Sample7			
Phenology: Vegetative V Bud Flowering Fruiting Senescing			
Notes one had gold glade hard for dee			
Average aboveground size of sampled plants 1' Jan 3" down de			
5-4 sturs			
Description of Aboveground Samples			
Sampling/clipping height (" chan grand			
Pathogens (presence, description, prevalence) <u>solls</u> on <u>ne</u> - extension			
Herbivory (presence, description, prevalence)			
Visible dust 2			
Other Description 28 gm, Plotet John			

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID STRI-1-TU4N-PSTSAW Date 9/11/13 7:37
Personnel Jeff Dawn
Plant type: Shrub Grass Forb
Species la character
Aboveground Sample X Belowground Sample
Site ID <u>CV3 TF1-1</u> Area <u>Tailings Facility</u>
Location solar
Description of Sampled Vegetation
Number of Individuals in Sample 6
Phenology: Vegetative Bud Flowering Fruiting Senescing
Notes y to 5 m
Average above ground size of sampled plants $(5'' h \times 8' d \cdot cm \cdot k + 6 - 15 s + cm$
Description of Aboveground Samples
Sampling/clipping height 1" obere promt or at bore at she at deat 2"
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence) —
Visible dust
Other Description 33 gn

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3-TRLZ. JU4N-PLTJAW Date 1/9/13 4:45
Personnel JLP Dawson, Joy Pick
Plant type: Shrub × Grass Forb
Species (netrila lanat
Aboveground Sample X Belowground Sample
Site ID CVN 3 - TRI- 2 Area Tailings Facility
Location I rlev
Description of Sampled Vegetation
Number of Individuals in Sample 5
Phenology: Vegetative V Bud Flowering Fruiting Senescing
Notes fland within 2m
Average aboveground size of sampled plants 9-18" tell, bronched at bare
Description of Aboveground Samples
Sampling/clipping height 1" abore prema, one depend at main ster
Pathogens (presence, description, prevalence)
Herbivory (presence, description, prevalence)
Visible dust
Other Description her 18hy

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID ARB-3- TON-4- (LTSAW	Date 9/10 (1:18
Personnel J. S. Dawr	
Plant type: Shrub Grass	Forb
Species Carate: de lanate	
Aboveground Sample X	Belowground Sample
Site ID CVR3 - TR3 - 3	Area Tailings Facility
LocationSeler	
Description of Sampled Vegetation	
Number of Individuals in Sample 4	
Phenology: Vegetative 2 Bud Flowe	ring 2 Fruiting Senescing
Notes one show 3 m In point	Langle in such star leave, R.
aller, in 2m	
Average above ground size of sampled plants (\mathcal{V})	hyporeneye ((0-30")
diqueter 8-12"	
Description of Aboveground Samples	
Sampling/clipping height 1" al rec from	7
Pathogens (presence, description, prevalence) -	
Herbivory (presence, description, prevalence)	
Visible dust	
Other Description thete taken	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVRZTRA TOUN- PUTSAN Date 9/4/13 S14			
Personnel Jeff Dawlon			
Plant type: Shrub Grass Forb			
Species Caretorida Jenet			
Aboveground Sample X Belowground Sample			
Site ID <u>CYAZTAZ-1</u> Area <u>Tailings Facility</u>			
Location			
Description of Sampled Vegetation			
Number of Individuals in Sample			
Phenology: Vegetative 8 Bud Flowering Flowering Senescing			
Notes to 5 min order to get anyt rolon for ME/MAD			
closent one 3 in pringt.			
Average aboveground size of sampled plants 1' Ligh St dremeter 5-10 show			
Description of Aboveground Samples			
Sampling/clipping height 1 eron grad			
Pathogens (presence, description, prevalence)			
Herbivory (presence, description, prevalence)			
Visible dust			
Other Description photo John, 28 gn w eren of 3 lage			
hs/mp			

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SOP NUMBER 6.0

Plant Sample Collection

Attac	hment A
PLANT SAMPLE COL	LECTION DATA SHEET
Sample ID <u>CKRJTR2-3</u> TO 4D OM Personnel JAP Down JA	TThe Date 9/11/13 18:25
Plant type: Shrub Grass	Forb
Species Constride langte	
Aboveground Sample <u>X</u>	Belowground Sample
Site ID (V&3 T&2-3	Area Tailings Facility
Locationlo~	
Description of Sampled Vegetation Number of Individuals in Sample	fup
Phenology: Vegetative 6 Bud Flo	owering 2 Fruiting Senescing
Average aboveground size of sampled plants	l'high 3" wide 2-4 stem
Description of Aboveground Samples	
Sampling/clipping height 1° crock	-0120
athogens (presence, description, prevalence)	
Ierbivory (presence, description, prevalence)	
7	
/isible dust —	

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3-TRJ-1-TEYN-PUTSM Date 9/4/13 11:15
Personnel SAF Deven
Plant type: Shrub Grass Forb
Species Ericameria hanseula
Aboveground Sample X Belowground Sample
Site ID CRV3 TR3-1 Area Tailings Facility
Location han - solar
Description of Sampled Vegetation
Number of Individuals in Sample
Phenology: Vegetative Bud Flowering / Fruiting Senescing
Notes one at 2m, lat 5m
Average aboveground size of sampled plants 18 Jan 29 with harthy
repult
Description of Aboveground Samples
Description of Aboveground Samples Sampling/clipping height
Description of Aboveground Samples Sampling/clipping height Pathogens (presence, description, prevalence)
Description of Aboveground Samples Sampling/clipping height Pathogens (presence, description, prevalence)
Description of Aboveground Samples Sampling/clipping height Pathogens (presence, description, prevalence) Herbivory (presence, description, prevalence)
Description of Aboveground Samples Sampling/clipping height [" Pathogens (presence, description, prevalence)
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Description of Aboveground Samples Sampling/clipping height ["

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CV & 3 TA 3 -2 - Tett - tran Date 1/13 11:32			
Personnel Jeff Javan, John Pinh			
Plant type: Shrub // Grass Forb			
Species (anotride lenate			
Aboveground Sample X Belowground Sample			
Site ID Area <u>Tailings Facility</u>			
Location non-relev			
Description of Sampled Vegetation			
Number of Individuals in Sample 2			
Phenology: Vegetative Bud Flowering / Fruiting Senescing			
Notes one or (lange) within I my readles & som			
Average aboveground size of sampled plants by me i had 18 fremake			
smalle or SH high 6" drough			
Description of Aboveground Samples			
Sampling/clipping height the start to man she and by and I'm shally			
Pathogens (presence, description, prevalence)			
Herbivory (presence, description, prevalence)			
Visible dust			
Other Description 30 pm By me in values			

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SOP NUMBER 6.0

Plant Sample Collection

Attachment A PLANT SAMPLE COLLECTION DATA SHEET

Sample ID CVR3 +13 -3 -No 4N - PLTSAW Date 1/11/13 11:55			
Personnel John Dewen John Pink			
Plant type: Shrub Grass Forb			
Species Pricemenie neusees.			
Aboveground Sample X Belowground Sample			
Site ID CVR 3 TR 3-3 Area Tailings Facility			
Location you solo			
Description of Sampled Vegetation			
Number of Individuals in Sample 5			
Phenology: Vegetative 2 2 Bud 2 Flowering 1 Fruiting Senescing			
Notes all in 3 mater			
Average aboveground size of sampled plants 1 D + 1 (D diana			
healthy			
Description of Aboveground Samples			
Sampling/clipping height 1° al rre front			
Pathogens (presence, description, prevalence)			
Herbivory (presence, description, prevalence)			
Visible dust			
Other Description 25 grad			

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Appendix C SURVEY COORDINATES CMI Questa Mine Soil and Vegetation Sampling Event August-September 2013

Site ID	Northing	Easting	Horizontal Precision (feet)
CVR1TR1-1	2080968.90	1828613.48	2.3
CVR1TR1-2	2080979.06	1828652.80	1.3
CVR1TR1-3	2080985.76	1828690.99	1.3
CVR1TR2-1	2080626.47	1828559.23	0.3
CVR1TR2-2	2080637.55	1828598.09	0.7
CVR1TR2-3	2080649.61	1828635.02	1.0
CVR1TR3-1	2080238.49	1828533.14	1.3
CVR1TR3-2	2080251.69	1828574.12	0.3
CVR1TR3-3	2080263.79	1828614.11	0.7
CVR2TR1-1	2081095.18	1828939.33	0.3
CVR2TR1-2	2081107.14	1828979.05	0.7
CVR2TR1-3	2081115.95	1829019.23	1.6
CVR2TR2-1	2080670.71	1828855.50	1.3
CVR2TR2-2	2080678.53	1828900.47	1.0
CVR2TR2-3	2080686.54	1828938.87	0.7
CVR2TR3-1	2080297.39	1828753.61	0.3
CVR2TR3-2	2080328.15	1828782.32	1.6
CVR2TR3-3	2080358.95	1828804.72	3.0
CVR3TR1-1	2080925.15	1829157.12	0.7
CVR3TR1-2	2080931.43	1829197.05	1.0
CVR3TR1-3	2080946.23	1829236.51	1.0
CVR3TR2-1	2080565.63	1829114.86	0.3
CVR3TR2-2	2080576.55	1829153.79	0.3
CVR3TR2-3	2080587.45	1829193.48	2.6
CVR3TR3-1	2080362.67	1829038.41	0.3
CVR3TR3-2	2080375.15	1829075.74	0.3
CVR3TR3-3	2080390.25	1829115.41	0.3


Table D-1 RESULTS FROM COVER TRANSECTS

| 3-foot Cover Solar Area
(3S) | 1 | 2 | 3 ! | 5 6

 | 7

 | 9 | 11 12 | 2 13 | 14
 | 16 | 18 20

 | 22

 | 23 | 24 | 27 2 | 28 29
 | 30

 | 31 32

 | 33 | 34 35 | 36 3 | 37 38

 | 39 4
 | 0 41
 | 42
 | 43 4 | 4 45
 | 46 | 48 49
 | 50 | 51 ! | 52 5
 | 58 59 | 60 | SUM
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| Number of Points per Tran | sect (50 Poin | int Transe | ect) |

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 | -1 - | |
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| Grass points | 5 | 10 | 2 | 12

 | 6

 | 9 6 | 7 | 5 | 6 7
 | 8 | 9 4

 | 4 6

 | 7 | 3 | 9 | 7 7
 | 4

 | 2 9

 | 8 | 5 5 | 7 | 10 6

 | 7
 | 10 6
 | 6 1
 | 5 | 8
 | 7 8 | 11 6
 | 8 | 11 | 5
 | 5 7 | 7 7 | 303
 | 6.73 | | | |
| Shruh Points | 0 | 0 | 0 | 14 .

 | 0

 | 0 1 | 0 | 1 | 0 1
 | 0 | 0 0

 | 0 0

 | 0 | / | 10 | 0 2
 | 2

 | / 3

 | 1 | 4 4 | 0 | 7 9

 | 0
 | 1 1
 | s 5
1 0
 | 4 | 0 0
 | 2 3 | 3 5
 | 1 | 1 | 2
 | 0 1 | 0 2 | 215
 | 4.78 | | | |
| All Vegetation Points | 12 | 16 | 2 | 26

 | 20

 | 1 9 | 15 | 7 1 | 3 12
 | 16 | 14 7

 | 7 8

 | 8 | 11 | 25 | 14 13
 | 8

 | 9 12

 | 10 | 9 9 | 13 | 17 15

 | 13
 | 16 15
 | 5 4
 | 9 | 8
 | 9 11 | 14 11
 | 10 | 15 | 7
 | 6 14 | 4 9 | 532
 | 11.82 | | | |
| Rock | 1 | 6 | 3 | 1

 | 7

 | 2 1 | 1 | 2 | 2 2
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 | 3 | 1 | 8 | 3 1
 | 1

 | 4 5

 | 3 | 4 1 | 3 | 4 2

 | 5
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 | 4 5
 | 2 | 1
 | 1 0 | 4 5
 | 3 | 6 | 1
 | 8 2 | 2 4 | 141
 | 3.13 | | | |
| Litter | 1 | 7 | 1 | 2

 | 4

 | 7 7 | 0 | 4 1 | 15 10
 | 13 | 4 6

 | 6 1

 | 0 | 4 | 1 | 9 4
 | 4 3

 | 2 2

 | 9 | 0 3 | 1 | 6 12

 | 4
 | 13 9
 | 9 3
 | 5 | 4 :
 | 1 1 | 9 6
 | 8 | 4 | 6
 | 3 4 | 4 2 | 220
 | 4.89 | | | |
| Other | 0 | 0 | 0 | 0

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 | 0.00 | | | |
| Bare ground | 36 | 21 | 44 | 21 :

 | 19

 | 30 33 | 34 | 37 2 | 20 26
 | 20 | 23 36

 | 6 39

 | 39 | 34 | 16 | 24 32
 | 38

 | 35 31

 | 28 | 37 37 | 33 | 23 21

 | 28
 | 15 22
 | 2 38
 | 34 | 37 39
 | 9 38 | 23 28
 | 29 | 25 | 36
 | 33 30 | 0 35 | 1357
 | 30.16 | | | |
| Total Non-Vegetation | 38 | 34 | 48 | 24

 | 30

 | 39 41 | 35 | 43 3 | 37 38
 | 34 | 36 43

 | 3 42

 | 42 | 39 | 25 | 36 37
 | 42

 | 41 38

 | 40 | 41 41 | 37 | 33 35

 | 37
 | 34 35
 | 5 46
 | 41 | 42 43
 | 1 39 | 36 39
 | 40 | 35 | 43
 | 44 36 | 6 41 | 1718
 | 38.18 | | | |
| Points Percent Cover | | | |

 |

 | | | |
 | - |

 | -

 | | | - |
 |

 |

 | | | |

 |
 |
 |
 | |
 | |
 | - | | -
 | | - | -
 | | | | |
| Grass Cover (%) | 10 | 20 | 4 | 24

 | 12

 | 0 12 | 14 | 10 1 | 2 14
 | 16 | 10 0

 | 0 12

 | 14 | c | 10 | 14 14
 |

 | 4 19

 | 16 | 10 10 | 14 | 20 12

 | 14
 | 20 12
 | 2 2
 | 10 | 16 1.
 | 4 16 | 22 12
 | 16 | 22 | 10
 | 10 1/ | 4 14 | 606
 | 12 47 | 22.25 | 1 92 0 | 0.72 |
| Forb Cover (%) | 10 | 12 | 0 | 28

 | 28

 | 4 4 | 16 | 2 1 | 4 8
 | 16 | 10 6

 | 6 4

 | 2 | 14 | 32 | 14 14
 | 3 4

 | 14 6

 | 2 | 8 8 | 12 | 14 18

 | 12
 | 10 16
 | 6 6
 | 8 | 0
 | 4 6 | 6 10
 | 2 | 6 | 4
 | 2 12 | 2 4 | 430
 | 9.56 | 52.16 | 7.22 1 | 1.08 |
| Shrub Cover (%) | 0 | 0 | 0 | 0

 | 0

 | 0 2 | 0 | 2 | 0 2
 | 0 | 0 0

 | 0 0

 | 0 | 2 | 0 | 0 4
 | 4

 | 0 0

 | 2 | 0 0 | 0 | 0 0

 | 0
 | 2 2
 | 2 0
 | 0 | 0 0
 | 0 0 | 0 0
 | 2 | 2 | 0
 | 0 2 | 2 0 | 28
 | 0.62 | 1.24 | 1.11 0 | 0.17 |
| Total Veg Cover | 24 | 32 | 4 | 52 4

 | 40

 | 2 18 | 30 | 14 2 | 26 24
 | 32 | 28 14

 | 4 16

 | 16 | 22 | 50 | 28 26
 | 5 16

 | 18 24

 | 20 | 18 18 | 26 | 34 30

 | 26
 | 32 30
 | 0 8
 | 18 | 16 18
 | 8 22 | 28 22
 | 20 | 30 | 14
 | 12 28 | 8 18 | 1064
 | 23.64 | 88.23 | 9.39 1 | 1.40 44.54 |
| Total Perennial Cover | 10 | 22 | 4 | 24

 | 12

 | 18 14 | 16 | 12 1 | 12 16
 | 18 | 18 8

 | 8 12

 | 14 | 10 | 22 | 14 18
 | 3 12

 | 8 18

 | 18 | 12 10 | 14 | 20 12

 | 16
 | 22 14
 | 4 2
 | 10 | 16 14
 | 4 16 | 22 12
 | 18 | 24 | 10
 | 10 16 | 6 14 | 654
 | 14.53 | 24.07 | 4.91 0 | 0.73 |
| Total Annual/Biennial | 14 | 10 | 0 | 28

 | 28

 | 4 4 | 14 | 2 1 | 4 8
 | 14 | 10 6

 | 6 4

 | 2 | 12 | 28 | 14 8
 | 8 4

 | 10 6

 | 2 | 6 8 | 12 | 14 18

 | 10
 | 10 16
 | 6 6
 | 8 | 0
 | 4 6 | 6 10
 | 2 | 6 | 4
 | 2 12 | 2 4 | 410
 | 9.11 | 46.46 | 6.82 1 | 1.02 |
| Rock Cover (%) | 2 | 12 | 6 | 2 :

 | 14

 | 4 2 | 2 | 4 | 4 4
 | 2 | 18 2

 | 2 4

 | 6 | 2 | 16 | 6 2
 | 2 2

 | 8 10

 | 6 | 8 2 | 6 | 8 4

 | 10
 | 12 8
 | 8 10
 | 4 | 2
 | 2 0 | 8 10
 | 6 | 12 | 2
 | 16 4 | 4 8 | 282
 | 6.27 | | | |
| Litter Cover (%) | 2 | 14 | 2 | 4

 | 8

 | 4 14 | 0 | 8 3 | 30 20
 | 26 | 8 12

 | 2 2

 | 0 | 8 | 2 | 18 8
 | 8 6

 | 4 4

 | 18 | 0 6 | 2 | 12 24

 | 8
 | 26 18
 | 8 6
 | 10 | 8
 | 2 2 | 18 12
 | 16 | 8 | 12
 | 6 8 | 8 4 | 440
 | 9.78 | | | |
| Other Cover %) | 0 | 0 | 0 | 0

 | 0

 | 0 0 | 0 | 0 | 0 0
 | 0 | 0 0

 | 0 0

 | 0 | 0 | 0 | 0 0
 | 0 0

 | 0 0

 | 0 | 0 0 | 0 | 0 0

 | 0
 | 0 0
 | 0 0
 | 0 | 0 (
 | 0 0 | 0 0
 | 0 | 0 | 0
 | 0 0 | 0 0 | 0
 | 0.00 | | | |
| Bare ground (%) | 72 | 42 | 88 | 42 3

 | 38

 | 66 | 68 | 74 4 | 10 52
 | 40 | 46 72

 | 2 78

 | 78 | 68 | 32 | 48 64
 | 76

 | 70 62

 | 56 | 74 74 | 66 | 46 42

 | 56
 | 30 44
 | 4 76
 | 68 | 74 78
 | 8 76 | 46 56
 | 58 | 50 | 72
 | 66 60 | 0 70 | 2714
 | 60.31 | | | |
| Total Non-Veg Cover | 76 | 08 | 90 | 46 0

 | 60

 | 0 02 | 70 | 80 /· | 4 /0
 | 00 | 72 80

 | 0 84

 | 64 | 78 | 50 | 72 74
 | 6 64

 | 82 70

 | 80 | 82 82 | /4 | 00 70

 | 74
 | 08 70
 | 92
 | 82 | 64 64
 | 2 /8 | /2 /8
 | 80 | 70 | 00
 | 00 72 | 2 82 | 3430
 | 70.30 | | | |
| 2-foot Cover Solar Area | | | |

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 | <u> </u> |
 | | |
 | | | 1
 | | | | Sample |
| (2S) | 1 | 2 | 3 4 | 4 5

 | 6

 | 7 | 8 9 | 10 | 11
 | 12 | 13 14

 | 15

 | 16 | 17 | 18 1 | 19 20
 | 21

 | 22 23

 | 24 | 25 26 | 27 2 | 29

 | 30 3
 | 1 33
 | 34
 | 35 3 | 6 37
 | 38 | 39 40
 | 41 | 42 4 | 43 4
 | 44 45 | 46 | SUM
 | MEAN | VAR | D SE | Adequacy |
| Number of Points per Tran | sect (50 Poin | int Transo | ect) |

 |

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 | |

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 | |
 | |
 | | | | |
 | | |
 | | | | . acquacy |
| Grass Points | 0 | 3 | 3 | 2

 | 14

 | 3 5 | 8 | 2 | 2 6
 | 4 | 6 4

 | 4 11

 | 5 | 1 | 6 | 6 5
 | 6

 | 2 1

 | 7 | 4 2 | 2 | 3 0

 | 7
 | 3 7
 | 2 2
 | 2 | 8
 | 5 2 | 2 3
 | 2 | 1 | 0
 | 4 9 | 5 5 | 1
 | 3.91 | 1 | 1 | |
| Forb Points | 0 | 4 | 1 | 10

 | 1

 | 2 6 | 7 | 3 | 2 0
 | 8 | 4 3

 | 3 4

 | 11 | 3 | 4 | 5 2
 | 9

 | 6 0

 | 7 | 3 6 | 1 | 5 0

 | 4
 | 4 6
 | 6 5
 | 4 | 6 8
 | 8 12 | 1 2
 | 4 | 2 | 7
 | 4 7 | 7 0 |
 | 4.29 | | | |
| Shrub Points | 0 | 0 | 0 | 0

 | 0

 | 0 0 | 0 | 0 | 0 0
 | 0 | 0 0

 | 0 0

 | 0 | 0 | 0 | 0 0
 | 0 0

 | 0 0

 | 0 | 0 0 | 0 | 0 0

 | 0
 | 0 0
 | 0 0
 | 0 | 0 0
 | 0 0 | 0 0
 | 0 | 0 | 0
 | 0 0 | 0 0 |
 | 0.00 | | | |
| All Vegetation Points | 0 | 7 | 4 | 12

 | 15

 | 5 11 | 15 | 5 | 4 6
 | 12 | 10 7

 | 7 15

 | 16 | 4 | 10 | 11 7
 | 15

 | 8 1

 | 14 | 7 8 | 3 | 8 0

 | 11
 | 7 8
 | 8 7
 | 6 | 14 1
 | 3 14 | 3 5
 | 6 | 3 | 7
 | 8 12 | 2 5 | 369
 | 8.20 | | | |
| Rock | 2 | 3 | 5 | 1

 | 1

 | 0 1 | 3 | 0 | 4 5
 | 2 | 0 1

 | 1 3

 | 7 | 0 | 0 | 2 2
 | 4

 | 2 4

 | 8 | 0 7 | 2 | 3 0

 | 8
 | 2 6
 | 6 3
 | 2 | 1
 | 2 3 | 1 0
 | 3 | 3 | 7
 | 7 2 | 2 2 |
 | 2.76 | | | |
| Litter | 0 | 2 | 2 | 4

 | 9

 | 2 0 | 6 | 1 | 1 2
 | 4 | 1 2

 | 2 8

 | 3 | 6 | 9 | 3 2
 | 3

 | 5 0

 | 9 | 6 1 | 5 | 3 0

 | 5
 | 2 1
 | 1 2
 | 8 | 7 !
 | 5 4 | 1 0
 | 9 | 0 | 0
 | 0 1 | 1 1 |
 | 3.22 | | | |
| Other
Data around | 0 | 0 | 0 | 0

 | 0

 | 0 0 | 0 | 0 | 0 0
 | 0 | 0 0

 | 0 0

 | 0 | 0 | 0 | 0 0
 | 0 0

 | 0 0

 | 0 | 0 0 | 0 | 0 0

 | 0
 | 20 25
 | 0 0
 | 0 | 0 0
 | 0 0 | 0 0
 | 0 | 0 | 0
 | 0 0 | 0 2 |
 | 0.04 | | | |
| Bare ground | 48 | 38 | 39 | 33 4

 | 25

 | 13 38 | 26 | 44 4 | 1 3/
 | 32 | 39 40

 | 24

 | 24 | 40 | 31 | 34 39
 | 28

 | 35 45

 | 19 | 37 34 | 40 | 36 50

 | 26
 | 39 35
 | 38
 | 34 | 28 30
 | 7 26 | 45 45
 | 32 | 44 | 30
 | 35 35 | 5 40
0 45 | 1001
 | 35.78 | | | |
| Percent Cover | 30 | 43 | 40 | 30

 | 33

 | 5 55 | 33 | 43 4 | 44
 | 30 | 40 43

 | 3 33

 | 54 | 40 | 40 | 33 43
 | 55

 | 42 45

 | 30 | 43 42 | 47 | 42 30

 | 33
 | 43 42
 | 2 43
 | 44 | 30 3.
 | / 30 | 47 43
 | 44 | 47 | 43
 | 42 30 | o 4J | 1001
 | 41.00 | | | |
| Grass Cover (%) | 0 | 6 | 6 | 4

 | 28

 | 6 10 | 16 | 4 | 4 12
 | 8 | 12 8

 | 8 22

 | 10 | 2 | 12 | 12 10
 | 12

 | 4 2

 | 14 | 8 4 | 4 | 6 0

 | 14
 | 6 4
 | 4 4
 | 4 | 16 10
 | 0 4 | 4 6
 | 4 | 2 | 0
 | 8 10 | 0 10 | 352
 | 7.82 | 32.15 | 5.67 (| 0.85 |
| Forb Cover (%) | 0 | 8 | 2 | 20

 | 2

 | 4 12 | 14 | 6 | 4 0
 | 16 | 8 6

 | 6 8

 | 22 | 6 | 8 | 10 4
 | 18

 | 12 0

 | 14 | 6 12 | 2 | 10 0

 | 8
 | 8 12
 | 2 10
 | 8 | 12 1
 | 6 24 | 2 4
 | 8 | 4 | 14
 | 8 14 | 4 0 | 386
 | 8.58 | 36.48 | 6.04 0 | 0.90 |
| Shrub Cover (%) | 0 | 0 | 0 | 0

 | 0

 | 0 0 | 0 | 0 | 0 0
 | 0 | 0 0

 | 0 0

 | 0 | 0 | 0 | 0 0
 | 0 0

 | 0 0

 | 0 | 0 0 | 0 | 0 0

 | 0
 | 0 0
 | 0 0
 | 0 | 0 (
 | 0 0 | 0 0
 | 0 | 0 | 0
 | 0 0 | 0 0 | 0
 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Veg Cover | 0 | 14 | 8 | 24 3

 | 30

 | 10 22 | 30 | 10 | 8 12
 | 24 | 20 14

 | 4 30

 | 32 | 8 | 20 | 22 14
 | i 30

 | 16 2

 | 28 | 14 16 | 6 | 16 0

 | 22
 | 14 16
 | 6 14
 | 12 | 28 20
 | 6 28 | 6 10
 | 12 | 6 | 14
 | 16 24 | 4 10 | 738
 | 16.40 | 75.38 | 8.68 1 | 1.29 79.10 |
| Total Perennial Cover | 0 | 6 | 8 | 4

 | 28

 | 8 10 | 16 | 8 | 4 12
 | 10 | 14 8

 | 8 22

 | 10 | 2 | 12 | 12 12
 | 12

 | 4 2

 | 14 | 8 4 | 4 | 6 0

 | 14
 | 6 6
 | 6 4
 | 4 | 16 10
 | 0 4 | 6 6
 | 4 | 2 | 2
 | 8 10 | 0 10 | 372
 | 8.27 | 31.20 | 5.59 (| 0.83 |
| Total Annual/Biennial | 0 | 8 | 0 | 20

 | 2

 | 2 12 | 14 | 2 | 4 0
 | 14 | 6 6

 | 6 8

 | 22 | 6 | 8 | 10 2
 | 18

 | 12 0

 | 14 | 6 12 | 2 | 10 0

 | 8
 | 8 10
 | 0 10
 | 8 | 12 10
 | 6 24 | 0 4
 | 8 | 4 | 12
 | 8 14 | 4 0 | 366
 | 8.13 | 38.44 | 6.20 0 | 0.92 |
| Rock | 4 | 6 | 10 | 2

 | 2

 | 0 2 | 12 | 0 | 8 10
 | 4 | 0 2

 | 2 6

 | 14 | 12 | 18 | 4 4
 | 8

 | 4 8

 | 16 | 0 14 | 4 | 6 0

 | 16
 | 4 12
 | 2 6
 | 4 | 2 4
 | 4 6 | 2 0
 | 19 | 6 | 14
 | 14 4 | 4 4 | 248
 | 5.51 | | | |
| Other | 0 | 4 | 4 | <u> </u>

 | 10

 | 4 0 | 0 | 0 | 2 4
 | 0 | 2 4

 | 4 10

 | | 12 | 18 | 0 0
 |

 | 0 0

 | 18 | 12 2 | 10 | 0 0

 | 10
 | 4 2
 | 2 4
 | 10 | 0 0
 | 0 0 | 2 0
 | 18 | 0 | 0
 | 0 2 | 2 2 | 290
 | 0.44 | | | |
| Bare ground | 96 | 76 | 78 | 66

 | 50

 | 36 76 | 52 | 88 8 | 32 74
 | 64 | 78 80

 | 0 48

 | 48 | 80 | 62 | 68 78
 | 3 56

 | 70 90

 | 38 | 74 68 | 80 | 72 100

 | 52
 | 78 70
 | 0 76
 | 68 | 56 60
 | 0 58 | 90 90
 | 64 | 88 | 72
 | 70 70 | 0 80 | 3220
 | 71.56 | | | |
| Total Non Veg Cover | 100 | 86 | 92 | 76

 | 70

 | 90 78 | 70 | 90 9 | 92 88
 | 76 | 80 86

 | 6 70

 | 68 | 92 | 80 | 78 86
 | 5 70

 | 84 98

 | 72 | 86 84 | 94 | 84 100

 | 78
 | 86 84
 | 4 86
 | 88 | 72 74
 | 4 72 | 94 90
 | 88 | 94 | 86
 | 84 76 | 6 90 | 3762
 | 83.60 | | | |
| rotaritori reg corei | | | |

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 | | |
 | | | | |
| 1-foot Cover Solar Area | 1 | 2 | 3 4 | 4 5

 | 6

 | 7 | 8 9 | 10 | 11
 | 12 | 13 14

 | 15

 | 16 | 17 | 18 1 | 19 20
 | 21

 | 22 23

 | 24 | 25 26 | 27 2 | 28 29

 | 30 3
 | 1 32
 | 33
 | 34 3 | 5 36
 | 37 | 38 39
 | 40 | 41 4 | 42 4
 | 13 44 | 45 | SUM
 | MEAN | VAR | D SE | Sample |
| 1-foot Cover Solar Area
(1S) | 1 | 2 | 3 | 4 5

 | 6

 | 7 | 89 | 10 | 11
 | 12 | 13 14

 | 15

 | 16 | 17 | 18 1 | 19 20
 | 21

 | 22 23

 | 24 | 25 26 | 27 2 | 29

 | 30 3:
 | 1 32
 | 33
 | 34 3 | 5 36
 | 37 | 38 39
 | 40 | 41 | 42 4
 | 13 44 | 45 | SUM
 | MEAN | VAR : | D SE | E Sample
Adequacy |
| 1-foot Cover Solar Area
(1S)
Number of Points per Tran | 1
sect (50 Poin | 2
int Transe | 3 4 | 4 5

 | 6

 | 7 | 8 9 | 10 | 11
 | 12 | 13 14

 | 15

 | 16 | 17 | 18 1 | 19 20
 | 21

 | 22 23

 | 24 | 25 26 | 27 2 | 28 29

 | 30 3:
 | 1 32
 | 33
 | 34 3 | 5 36
 | 37 | 38 39
 | 40 | 41 4 | 42 4
 | 13 44 | 45 | SUM
 | MEAN | VAR | D SE | E Sample
Adequacy |
| 1-foot Cover Solar Area
(1S)
Number of Points per Tran
Grass Points | 1
sect (50 Poin
10 | 2
int Transe | 3 4 | 4 5

 | 6
6

 | 7
3 3 | 8 9
0 | 10 | 11
 | 12 | 13 14
11 8

 | 15
8 1

 | 16 | 17 | 18 1
3 | 19 20
 | 21

 | 22 23

 | 24 | 25 26 | 27 2
9 | 28 29
4 7

 | 30 3
 | 1 32
7 8
 | 33
8 12
 | 34 3:
10 | 5 36
7 (
 | 37 | 38 39
 | 40
6 | 41 4 | 42 4
 | 13 44 | 45 | SUM
246
 | MEAN
5.47 | VAR | D SE | E Sample
Adequacy |
| 1-foot Cover Solar Area
(1S)
Number of Points per Tran
Grass Points
Forb Points | 1
sect (50 Poin
10
11 | 2
int Transer
7
3 | 3 4 | 4 5
5
0

 | 6
6
8

 | 7
3 3 3
2 1 | 8 9
0
0 | 10
3
10 | 11
1 3
3 5
0 0
 | 12
5
7 | 13 14
11 8
3 12

 | 15
8 1
2 2
0 0

 | 16
7
11 | 17
4
0 | 18 1
3
3 | 19 20
6 7
0 10
 | 21

 | 22 23
9 7
0 4

 | 24
5
8 | 25 26
4 1
0 3 | 27 2
9
4 | 28 29
4 7
4 9

 | 30 3:
6
1
 | 1 32
7 8
3 6
 | 33
8 12
6 3
 | 34 33
10
7 | 5 36
7 (
5 11
 | 37
6 4 3 9 | 38 39
6 4
6 3
 | 40
6
12 | 41 4
3
6 | 42 4
4
2
 | 13 44
7 11
2 6 | 45
1 4
6 1
0 0 | SUM
246
215
 | MEAN
5.47
4.78 | VAR | iD SE | E Sample
Adequacy |
| 1-foot Cover Solar Area
(15)
Number of Points per Tran
Grass Points
Forb Points
Shrub Points
Ulvegestrico Points | 1
10
11
0
21 | 2
int Transee
7
3
0 | 3 4
ect)
6
2
2
10 | 4 5
5
0
0

 | 6
8
0

 | 7
3 3
2 1
1 0
6 4 | 8 9
0
0
0 | 10
3
10
13 | 11
1 3
3 5
0 0
4 8
 | 12
5
7
0 | 13 14 11 8 3 12 0 0 14 20

 | 15
8 1
2 2
0 0
0 3

 | 16
7
11
0 | 17
4
0
0 | 18 1
3
3
0 | 19 20 6 7 0 10 0 0 6 17
 | 21 7 6 5 0 0 11

 | 22 23
9 7
0 4
0 0
9 11

 | 24
5
8
0 | 25 26
4 1
0 3
0 0
4 4 | 27 2
9
4
0 | 28 29
4 7
4 9
0 0
8 16

 | 30 33
6
1
0
7
 | 1 32
7 8
3 6
0 0
10 14
 | 33
8 12
6 3
0 0
4 15
 | 34 33
10
7
0 | 5 36 7 (5 13 0 (12 11
 | 37
6 4
3 9
0 0
9 | 38 39
6 4
6 3
0 00
 | 40
6
12
0 | 41 4
3
6
0 | 42 4
4
2
0
6
 | 13 44 7 1 2 6 0 0 0 | 45
1 4
6 1
0 0
7 5 | SUM
246
215
3
 | MEAN
5.47
4.78
0.07
10.31 | VAR | iD SE | E Sample
Adequacy |
| 1-foot Cover Solar Area
(15)
Number of Points per Tran
Grass Points
Forb Points
Shrub Points
All vegetation Points
Pook | 1
sect (50 Poin
10
11
0
21 | 2
int Transee
7
3
0
10 | 3 4
ect)
6
2
2
10 | 4 5
5 0
0 0
5 5

 | 6
8
0
14

 | 7
3 3
2 1
1 0
6 4
1 8 | 8 9
0
0
0
0
5 | 10
3
10
0
13
3 | 11
1 3
3 5
0 0
4 8
7 5
 | 12
5
7
0
12
3 | 13 14 11 8 3 12 0 0 14 20 5 2

 | 15
8 1
2 2
0 0
0 3
3 2 6

 | 16
7
11
0
18 | 17
4
0
0
4
3 | 18 1
3
3
0
6 | 19 20 6 7 0 10 0 0 6 17 5 2
 | 21
6
5
0
7
11
9

 | 22 23
9 7
0 4
0 0
9 11
3 1

 | 24
5
8
0
13 | 25 26
4 1
0 3
0 0
4 4
4 4 | 27 2
9
4
0
13 | 29
4 7
4 9
0 0
8 16
2 1

 | 30 33
6
1
0
7
 | 1 32
7 8
3 6
0 0
10 14
5 6
 | 33
8 12
6 3
0 0
4 15
6 2
 | 34 33
10
7
0
17 | 5 36 7 6 5 13 0 0 12 19
 | 37
6 4 3 9 0 0 9 13 2 4 | 38 39
6 4
6 3
0 0
12 7
1 8
 | 40
6
12
0
18 | 41
3
6
0
9
6 | 42 4
4
2
0
6
 | 13 44 7 1 2 6 0 0 9 7 3 1 | 45
1 4
6 1
0 0
7 5
1 3 | SUM
246
215
3
464
 | MEAN 5.47 4.78 0.07 10.31 3.53 | VAR | D SE | E Sample
Adequacy |
| 1-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Utter | 1
sect (50 Poin
10
11
0
21
2
3 | 2
int Transer
7
3
0
10
6
0 | 3 4
cct)
6
2
10
4
4 | 4 5
5 0
0 0
5 5
6 5

 | 6
8
0
14
1
5

 | 7
3 3
2 1
1 0
6 4
1 8
0 1 | 8 9
0
0
0
0
5
0 | 3
10
13
0 | 11
1 3
3 5
0 0
4 8
7 5
1 0
 | 12
5
7
0
12
3
1 | 13 14 11 88 3 12 0 0 14 20 5 22 7 1

 | 15 8 1 2 2 0 0 2 6 1 4

 | 16
7
11
0
18
1
1
2 | 17
4
0
0
4
3
4 | 18 1
3
3
0
6
1
2 | 9 20 6 7 0 10 0 0 6 17 5 2 1 2
 | 21
7 6
0 5
0 0
7 11
2 9
0

 | 22 23
9 7
0 4
0 0
9 11
3 1
1 2

 | 24
5
8
0
13
1
4 | 25 26
4 1
0 3
0 0
4 4
4 7
0 0 | 27 2
9
4
0
13
3
4 | 29 4 7 4 9 0 0 8 16 2 1 4 3

 | 30 33
6
1
0
7
4
0
 | 32 7 8 3 6 0 0 10 14 5 6 1 0
 | 33 8 12 5 3 0 0 4 15 6 2 0 4
 | 34 33
10
7
0
17
1
5 | 36 7 0 5 11 0 0 12 11 1 0
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 | 38 39
6 4
6 3
0 00
12 77
1 8
5 0
 | 40
6
12
0
18
2
5 | 41 4
3
6
0
9
6
0 | 42 4
4
2
0
6
3
1
 | 13 44 7 1 2 6 9 7 3 1 2 3 | 45
1 4
6 1
0 0
7 5
1 3
3 3 | SUM
246
215
3
464
159
99
 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 | VAR S | D SE | E Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other | 1
sect (50 Poin
10
11
0
21
2
3
0 | 2
int Transer
7
3
0
10
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 | MEAN Image: mail and mail | VAR : | D SE | E Sample
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| 1-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground | 1
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0 41 | 9 20 6 7 0 10 0 0 6 17 5 2 1 2 0 0 38 29
 | 21
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 | 30 3:

 | 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 34 30
 | 33 8 12 5 3 0 0 4 15 6 2 0 4 0 0 0 0 0 0
 | 34 33
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27 | 36 7 0 5 11 0 0 12 19 1 2 0 0 36 23
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 0 32 35
 | 40
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4
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 | 13 44 7 1 2 6 0 0 9 7 2 6 0 0 3 1 2 0 36 35 | 45 1 4 6 1 0 0 7 5 1 3 3 3 0 0 9 39 | SUM
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464
159
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1528
 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.000 33.96 | VAR : | D SE | Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation | 1
ssect (50 Point
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 | 7 3 3 2 1 1 0 6 4 1 8 0 1 0 0 13 37 14 46 | 8 9
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 | 12
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38 | 13 14 11 8 3 12 0 0 14 20 5 2 7 1 0 0 24 27 36 30

 | 15 8 1 2 2 0 3 2 6 1 4 0 0 7 377 0 47

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7
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 | 21
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37 | 29 4 7 4 9 0 0 8 16 2 1 4 3 0 0 36 30 42 34

 | 30 3:

 | 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 34 30 40 36
 | 33 8 12 5 3 0 0 4 15 5 2 0 4 0 0 0 0 0 0 0 29 6 35
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33 | 36 7 6 5 12 0 0 1 2 1 2 0 0 36 23 38 33
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 0 32 35 38 43
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1786
 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.000 33.96 39.69 | VAR | D SE | Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover | 1
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37 | 29 4 7 4 9 0 0 8 16 2 1 4 30 0 0 36 30 42 34

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 | 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 34 30 40 36
 | 33 B 12 6 3 0 0 4 15 6 2 0 4 0 0 0 0 0 0 0 0 0 29 6 35
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 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 39.69 | VAR | | Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points All vegetation Points Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Cother (%) | 1
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 | 36 7 0 5 13 0 0 12 19 1 2 1 36 36 23 38 33 14 1 10
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 2 4 6 2 0 0 3 31 1 37 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 0 32 35 38 40
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 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 39.69 10.93 10.93 | VAR : | 5.52 (C | Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover (%) Forb Cover (%) Shub Cover (%) | 1
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 | 21 6 5 0 11 9 0 30 39 112 0 0

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 | 33 8 12 6 3 0 0 4 15 6 2 0 4 0 0 0 29 6 35 6 24 2 6 0 0
 | 34 3 10 - 7 - 0 - 17 - 5 - 0 - 27 - 33 - 20 - 14 - | 5 36 7 0 5 12 0 0 1 2 1 2 36 22 38 33 14 12 0 0
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 2 8 6 18 0 0 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 0 32 35 38 43 12 8 12 8 12 8 0 0
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 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 33.96 10.93 9.56 0.12 | VAR : | D SE | Sample
Adequacy |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Vecent | 1
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 | 7 3 3 2 1 1 0 6 4 0 1 13 37 14 46 6 6 4 2 2 0 2 8 | 8 9 0 0 0 0 0 0 0 0 0 0 45 50 0 0 0 0 0 0 0 0 0 0 0 0 | 10 3 10 0 13 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 | 1 3 3 5 0 0 4 8 7 5 1 0 0 0 8 37 16 42 2 6 6 10 0 0 0 0
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34
38
0
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14
0
24 | 13 14 11 8 3 12 0 0 14 20 0 0 5 2 7 1 0 0 24 27 36 30 22 16 6 24 0 28

 | 15 8 1 2 2 0 0 2 6 1 4 0 0 7 37 0 47 6 2 4 4 0 0

 | 16
7
11
0
18
1
2
0
29
29
32
29
32
14
4
22
0
0
0
36 | 17
4
0
4
3
4
4
0
39
46
8
8
0
0
8
8 | 18 1 3 - 3 - 6 - 1 - 2 - 0 - 41 - 6 - 6 - 6 - 7 - 12 - | 9 20 6 7 0 10 0 6 1 2 0 0 1 2 44 33 12 14 0 20 0 0 0 0 12 14 12 14 12 12
 | 21 6 5 0 11 9 0 0 0 30 39 12 0 0 0 0 0 0 0 0 0 0 0 0 0

 | 22 23 9 7 0 4 0 0 9 11 3 1 1 2 0 0 37 36 41 39 18 14 0 8 0 18

 | 24
5
8
0
13
1
4
0
32
37
10
16
0
0
26 | 25 26 4 1 0 3 0 0 4 4 7 0 0 0 4 4 4 7 0 0 4 4 4 4 4 6 0 0 46 46 8 2 0 6 0 0 8 2 0 6 0 0 | 27 2
9
4
13
3
4
0
30
30
37
8
8
8
0
0 | 29 4 7 4 9 0 0 8 16 2 1 4 3 0 0 36 30 42 34 8 14 8 18 0 0 16 32

 | 30 3:
6 1
1 -
7 -
4 -
0 -
39 -
43 -
-
12 -
2 -
0 -
14 -
-
-
-
-
-
-
-
-
-
-
-
-
-
 | 1 32 7 88 3 66 0 0 10 144 5 66 1 0 0 34 40 366 14 166 6 12 0 0 20 20
 | 33 8 12 5 3 0 0 4 15 6 2 0 4 0 0 0 29 5 35 G 2 6 0 0 0 0 8 30
 | 34 3:
10
7
0
17
5
0
27
33
20
14
0
34 | 5 36 7 0 7 1 0 0 1 0 0 0 36 2: 38 3: 10 2: 14 1: 10 2: 0 0 24 24
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 2 8 6 18 0 0 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 0 32 35 38 43 12 8 12 8 12 6 0 24 14 14
 | 40
6
12
0
18
2
5
0
25
32
25
32
24
24
0
0
36 | 41 41 4
3 5
6 7
9 7
6 7
0 7
0 7
35 7
4
12 7
0 7
18 7
18 7
18 7
19 7
19 7
19 7
19 7
10 7
1 | 42 4
4
2
0
6
3
1
0
40
44
44
8
4
4
0
0 | 13 44 7 1 2 6 0 0 9 7 3 1 2 2 36 33 41 43 14 12 0 0 14 12 14 12 18 12
 | 45 1 4 6 1 0 0 1 3 3 3 0 0 9 39 3 45 2 8 2 2 0 0 0 0 | SUM
246
215
3
464
159
99
0
1528
1786
 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 33.96 10.93 9.56 0.13 20.62
 | VAR : | D SE | Sample Adequacy |
| 1-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Veg Cover Total Percental Cover | 1 ssect (50 Point 10 11 0 11 2 3 0 0 2 4 2 9 2 0 2 0 2 0 4 2 0 2 0 2 0 2 0 2 0 2 0 2 | 2
int Transe
7
3
0
10
6
0
0
0
0
34
40
14
6
0
20
14 | 3 4 6 2 2 10 4 4 0 32 40 12 4 4 12 4 4 18 | 4 5
5
0
0
5
5
5
5
5
5
0
4
5
5
0
10
10
10
10

 | 6
8
0
14
1
5
0
30
-
30
-
30
-
30
-
30
-
30
-
30
-
30
-
30
-
30
-
-
-
-
-
-
-
-
-
-
-
-
-

 | 7 3 3 2 1 1 0 6 4 0 1 13 37 14 46 6 6 4 2 0 0 13 37 14 46 6 6 4 2 0 0 12 8 8 6 | 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3
10
0
13
3
0
0
0
34
37
4
5
6
20
0
1
20
1
20
1
3
3
3
4
3
5
4
5
5
5
5
5
5
5
5
5
5
5
5
5 | 11 1 3 3 5 0 0 4 8 7 5 1 0 0 0 8 37 16 42 2 6 6 10 0 0 8 16 2 6
 | 12
5
7
0
12
3
1
0
0
34
38
10
14
0
14
0
24
10 | 13 14 11 8 3 12 0 0 14 20 5 2 7 1 0 0 24 27 36 30 22 16 24 27 36 20 0 0 22 16 24 27 36 20 36 20 36 20 36 20 36 21 36 22 37 30 38 40 39 22 30 30 30
 30 31 30 32 30

 | 15 8 1 2 2 0 0 3 2 1 4 0 0 7 37 0 47 6 2 4 4 0 0 6 2 4 4 0 0 6 2

 | 16
7
11
0
18
1
2
0
0
29
32
32
32
14
22
0
36
36 | 17
4
0
0
4
3
3
9
46
8
0
0
0
8
8
8
8
8
8
8
8
8
8
8
8
8 | 18 1 3 0 6 1 2 0 41 44 6 6 0 1 6 6 6 6 6 6 6 6 7 6 6 6 7 6 | 9 20 6 7 0 10 0 0 6 17 5 2 1 2 0 0 38 29 12 144 0 20 0 0 12 14 12 12
 | 21 6 5 0 11 2 9 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 12

 | 22 23 9 7 0 4 0 0 9 11 3 1 1 2 0 0 37 36 41 39 18 14 0 0

 | 24
5
8
0
13
1
4
4
0
32
37
10
16
0
26
12 | 25 26 4 1 0 3 0 0 4 4 4 7 0 0 0 0 4 4 4 7 0 0 4 4 4 7 0 0 4 4 4 7 0 0 4 4 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8 8 8 4 | 27 2
9
4
0
13
3
4
0
3
0
30
30
337
18
8
8
8
0
0
26
6
18 | 29 4 7 4 9 0 0 8 16 2 1 4 30 0 0 36 30 42 30 8 14 8 18 0 0 16 32 8 14

 | 30 3: 6 - 1 - 0 - 7 - 4 - 0 - 39 - 43 - 12 - 0 - 12 - 0 - 12 - 12 - 12 - 12 -
 | 1 32 7 8 3 6 0 0 10 14 5 6 1 0 34 36 40 36 14 16 12 0 20 28 16 16
 | 33 8 12 6 3 0 0 4 15 6 2 0 4 0 0 0 0 0 29 6 35 6 24 0 0 6 24 0 0 6 24 0 0 0 29 6 35 6 24 0 0 8 30 0 0 9 30
 | 34 3: 10 - 7 - 0 - 17 - 5 - 0 - 27 - 33 - 20 - 14 - 34 - | 5 36 7 0 5 12 12 12 1 2 1 36 238 33 14 12 10 2 0 0 12 14 13 14
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 2 8 6 18 0 0 0 0 2 2 8 26 2 10 | 38 39 6 4 6 3 0 00 12 77 1 8 5 00 0 00 32 35 38 43 12 8 12 8 12 8 12 8 12 8 12 8
 | 40
6
12
0
18
2
5
0
25
32
12
24
0
36
12 | 41 41 41 41 41 41 41 41 41 41 41 41 41 4 | 42 4
4
2
0
6
3
1
0
40
44
44
8
4
0
12
8
 | 13 44 7 1 2 6 0 0 9 7 3 1 2 2 36 33 41 4 14 7 4 12 0 0 18 14 | 45 1 4 6 1 0 0 7 5 1 3 3 0 9 39 3 45 2 8 2 2 0 0 0 0 9 39 3 45 2 8 2 2 0 0 0 0 4 10 2 8 | SUM
246
215
3
464
159
99
0
1528
1786
492
430
6
928
510
 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 39.69 0 10.93 9.56 0.13 20.62 11.33 | VAR : | D SE | Sample
Adequacy
Adequacy
 |
| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points All vegetation Points All vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Vege Cover Total Prennial Cover Total Annau/Biennial | 1
ssect (50 Point
10
11
0
21
2
3
0
24
20
20
20
20
20
42
20
22
22
22
22 | 2
int Transe
7
3
0
0
0
0
0
0
0
34
40
0
34
40
14
6
20
20
20
14
46 | 3 4 6 2 2 2 10 4 0 32 32 40 12 4 2 10 12 12 12 12 12 12 2 20 18 2 | 4 5 0 0 0 0 0 5 5 5 0 34 10 2 0 10 10 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2

 | 6
8
0
14
1
5
0
30

 | 3 3 2 1 1 0 6 4 1 8 0 1 0 0 13 37 14 46 2 0 2 0 2 0 2 0 2 8 8 6 4 2 | 8 9 0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 10 3 10 0 13 4 5 5 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 | 11 1 3 5 0 0 1 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1
 | 12
5
7
0
12
3
1
1
0
0
34
38
7
10
14
0
24
10
14 | 13 14 11 8 3 12 0 0 14 20 5 2 7 1 0 0 24 27 36 30 22 16 6 24 0 0 28 40 22 16 6 24

 | 15 8 1 2 2 0 0 1 4 0 0 7 37 0 47 6 2 4 4 0 0 0 6 2 4

 | 16 7 11 0 18 1 2 0 29 32 14 22 0 36 14 22 | 17
4
0
0
4
3
4
0
39
46
8
0
0
0
8
8
0
0
0
0
0
0
0
0
0
0
0
0
0 | 18 1 3 - 0 - 6 - 41 - 44 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - | 9 20 6 7 0 100 0 0 6 17 5 2 1 2 0 0 0 0 0 20 0 0 0 20 0 0 12 14 0 22 0 0 12 14 0 22
 | 21 6 5 0 111 9 0 30 30 10 0 111 111 111 111 112 0 10 0 10 0 112 112 110

 | 22 23 9 7 0 4 0 0 3 1 1 2 0 0 0 0 18 14 0 18 18 14 0 0

 | 24
5
8
0
13
1
4
4
0
32
337
10
16
16
0
0
26
114 | 25 26 4 1 0 3 0 0 4 4 4 7 0 0 42 39 46 46 0 0 8 2 0 6 0 0 8 8 8 8 8 4 | 27 2 9 4 0 3 4 0 030 37 18 8 0 26 18 8 | 29 4 7 4 9 0 0 8 16 2 1 4 3 0 0 36 30 42 34 8 18 0 0 0 0 16 32 8 14 8 14 8 14

 | 30 3; 6 - 1 - 0 - 7 - 4 - 0 - 39 - 12 - 2 - 14 - 12 -
 | 1 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 34 33 6 12 0 0 20 28 16 16 4 12
 | 33 8 12 5 3 0 0 4 15 6 2 0 0 0 2 6 35 6 35 7 2 6 0 0 0 2 6 0 0 2 6 0 0 2 6 30 0 5 244 2 6
 | 34 3 10 | 5 36 7 0 5 11 0 0 12 12 1 12 36 22 38 33 10 22 00 0 24 38 14 12 10 22 10 12 14 12 10 22 10 12 10 22 10 22 10 22 10 22 10 22 10 22
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 3 31 1 37 2 8 6 18 0 0 8 26 2 10 6 16 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 2 38 43 12 8 12 8 12 6 0 0 24 14 12 8
 | 40
6
12
0
18
2
5
32
25
32
25
32
12
24
0
0
36
12
24 | 41 41 4
3 5
6 7
0 7
9 6
6 7
0 7
5 7
41 7
6 7
12 7
0 7
18 6
6 7
12 7
1 | 42 4 4 2 0 6 3 1 0 40 40 44 0 1 1 0 40 44 0 1 8 4 0 12 8 4 | 13 44 7 1 2 6 0 0 2 3 3 1 2 3 0 0 0 0 41 4 4 11 0 0 0 14 4 11 14 2 4 12 4 12
 | 45 1 4 6 1 0 0 7 55 1 3 3 3 0 0 9 39 3 45 2 8 2 2 0 0 0 0 9 39 3 45 2 8 2 2 2 8 2 8 2 8 | SUM
246
215
3
464
159
99
0
1528
1528
1786
492
430
6
928
510
418 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 10.93 9.56 0.13 20.62 11.33 9.29
 | VAR : | D SE
5.52 (C
7.52 (1
0.66 (1)
0.66 (1)
5.49 (1)
7.47 (1) | Sample
Adequacy
 |
| I-foot Over Solar Area (1S) Number of Points per Tran Grass Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Ford Cover (%) Total Veg Cover Total Age Total Age Cover Total Age | 1 sect (50 Point 10 10 11 0 21 2 3 0 24 20 20 20 20 4 20 20 22 4 | 2
int Transe
7
3
0
10
6
0
0
34
40
40
14
40
20
14
6
6
12 | 3 4 6 2 2 2 10 4 4 0 32 40 12 4 4 20 18 2 8 2 | 4 5 0 0 0 5 6 - 5 0 34 3 45 3 10 2 10 2 10 2 0 3 10 2 10 2 10 2 10 2 10 2
 | 6 8 0 14 5 0 30 36 12 16 2

 | 3 3 2 1 1 0 6 4 1 8 0 1 0 0 13 37 14 46 2 0 12 8 8 6 4 2 2 16
 | 8 9 0 0 0 0 0 0 5 0 0 0 45 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 | 10 3 10 0 0 0 0 0 33 34 35 20 0 20 20 20 20 10 26 8 18 6 11 | 1 3 3 5 0 0 4 8 7 5 1 0 0 0 18 37 16 42 2 6 6 10 0 0 8 16 2 6 6 10 10 0 10 10
 | 12
5
7
0
12
3
1
1
0
34
38
7
0
14
10
14
10
14
10
0
24
10
10
14
6 | 13 14 11 8 3 122 0 0 14 200 5 22 7 1 0 0 24 277 36 30 22 16 6 24 0 0 22 16 6 24 0 0 22 16 6 24 10 4

 | 15 8 1 2 2 0 0 2 6 1 4 0 0 7 37 0 47 6 2 4 4 0 0 0 6 6 2 4 4 4 4 4 4

 | 16
7
11
0
18
1
2
0
32
14
22
0
36
14
14
22
0
36
14
12
22
0
32
22
2 | 17
4
0
0
4
3
4
0
3
9
4
6
0
8
8
0
0
8
8
0
0
6
 | 18 1 3 3 0 6 1 2 0 41 4 4 6 6 0 12 6 6 6 6 6 2 | 9 20 6 7 0 100 0 0 6 17 5 22 11 2 0 0 0 0 12 144 0 20 0 0 0 0 12 144 0 20 0 2 0 2 0 2 12 144 0 2 12 14 0 2 12 14 0 2 12 14 0 2 10 4
 | 21 6 5 0 111 9 0 30 30 30 30 22 112 100 0 12 100 12 12 12 12 12 12 12 12 13 18

 | 22 23 9 7 0 4 0 0 9 11 3 1 1 2 0 0 37 36 41 39 18 14 0 0 18 22 18 14 0 8 0 0 18 222 18 14 0 8 0 6

 | 24
5
8
0
13
1
1
4
0
32
37
10
16
0
26
12
14
2 | 25 26 4 1 0 3 0 0 4 4 4 7 0 0 42 39 46 46 8 2 0 6 8 8 8 4 0 4 8 14 | 27 2 9 4 0 33 4 0 330 37 118 8 0 26 18 8 6 6 | 29 4 7 4 9 0 0 8 16 2 1 4 30 0 0 36 30 42 34 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14 8 14

 | 30 3: 6 - 1 - 0 - 7 - 4 - 0 - 39 - 41 - 12 - 12 - 14 - 12 - 2 - 38 -
 | 1 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 4 122 10 122
 | 33 8 12 5 3 0 0 6 2 0 0 0 0 0 29 6 29 6 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 6 2 6 2 6 2 6 2 4
 | 34 3
10
7
0
17
17
1
5
0
27
33
7
20
14
0
0
34
20
14
2
2 | 5 36 7 0 5 1: 0 0 12 11 1 0: 0 0 0 0 1 1: 1 1: 1 0: 0 0: 10 2: 0 0: 0 0: 0 0: 0 0: 14 1: 10 2: 0: 2:
 | 37 6 4 3 9 0 0 2 4 6 2 0 0 3 31 1 37 2 8 6 18 0 0 0 0 8 26 2 10 6 16 4 8 | 38 39 6 4 6 3 0 0 12 7 1 8 5 0 0 2 32 35 38 43 12 8 12 8 12 8 12 8 12 8 12 8 12 8 12 8 12 14 12 8 12 14 12 8 12 14 12 14 12 14 12 16 13 16
 | 40
6
12
0
18
2
5
0
0
25
32
12
24
0
36
12
24
4
4
4 | 41 41 41
3 5
6 0
9 5
6 5
0 0
35 5
41
7
7
8
6 12
0 12
18
6 12
12
12
12 | 42 4 4 2 0 6 3 1 0 40 40 44 8 4 0 12 8 4 6 | 13 44 7 1 2 6 0 0 2 3 12 3 0 0 36 35 41 4 0 0 0 0 0 0 0 14 4 12 0 0 0 14 4 12 6 4
 | 45 1 4 6 1 0 0 7 5 1 3 0 0 9 39 3 45 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | SUM
246
215
3
464
159
99
0
0
1528
1786
492
430
6
928
510
418
318 | MEAN 5.47 0.07 10.31 3.53 2.20 0.00 33.96 9.56 0.13 20.62 11.133 9.29
 | VAR : | D SE
5.52 (
10.66 (
10.29 1
5.49 (
17.47 1 | Sample
Adequacy 0.82 1.12 0.00 1.53 70.21 0.82 |
| I-foot Cover Solar Area (1S) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points Rock Litter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Vege Cover Total Annua/Biennial Rock Litter | 1
issect (50 Point
10
11
0
21
3
3
0
24
29
22
0
42
20
22
20
22
4
6 | 2
int Transec
7
3
0
10
6
0
0
0
3
4
0
0
14
6
0
20
14
6
12
20
0 | 3 3 6 2 2 2 10 4 4 32 40 32 40 32 40 32 112 4 4 32 12 4 4 32 12 4 4 32 8 8 | 4 5 0 0 0 5 0 5 6 5 0 34 34 5 0 5 0 5 0 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5

 | 6 8 0 14 1 5 0 30 4 1 5 0 330 4 12 16 0 28 12 16 2 10

 | 3 3 2 1 1 0 6 4 1 8 0 1 0 0 13 37 14 46 6 6 4 2 2 0 12 8 8 6 4 2 2 16 0 2 | 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 10 0 13 3 0 34 37 4 20 20 8 18 6 18 0 0 0 | 1 3 3 5 0 0 4 8 7 5 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 2 6 6 10 2 0
 | 12
5
7
0
12
3
3
1
1
0
34
38
10
14
0
14
0
14
0
14
10
14
6
6
2 | 13 14 11 8 3 12 0 0 14 20 5 22 7 1 0 0 24 27 36 30 22 16 6 24 22 16 6 24 22 16 6 24 10 4 10 14

 | 15 8 1 2 2 0 3 2 6 1 4 0 7 7 37 0 47 6 2 4 4 0 0 6 2 4 4 4 4 4 12 2 8

 | 16 7 11 0 18 1 2 0 232 14 22 0 366 14 22 0 366 14 22 2 4 | 17
4
0
0
4
3
3
4
0
3
9
46
8
8
8
8
8
8
8
8
8
8
8
8
8 | 18 1 3 3 0 6 1 2 0 41 44 6 6 6 6 6 6 6 6 4 6 4 | 20 6 7 0 100 0 0 6 17 5 22 1 2 0 0 38 29 44 33 12 14 0 200 12 34 12 14 0 200 10 4 2 4
 | 21 6 5 0 111 9 0 0 111 9 0 0 111 9 0 0 0 0 10 10 12 110 12 10 0

 | 22 23 9 7 0 4 0 0 9 11 1 2 0 0 0 0 11 2 0 13 14 13 0 8 0 0 18 14 0 8 6 2 2 4

 | 24
5
8
0
133
1
4
0
32
37
37
10
16
0
0
26
12
14
4
2
8 | 25 26 4 1 0 3 0 0 4 4 4 7 0 0 0 0 4 4 4 7 0 0 0 0 4 4 4 7 0 0 4 4 7 0 8 8 8 4 0 4 8 14 0 0 | 27 2 9 4 0 13 3 4 0 30 37 37 18 8 0 18 8 0 26 18 8 6 6 8 | 29 4 7 4 9 0 0 8 16 2 1 4 3 0 0 36 30 42 34 8 16 32 8 8 18 4 32 8 14 8 18 4 22

 | 30 3;
 | 3 3 7 8 3 6 0 0 10 14 5 6 1 0 0 2 0 3 4 36 40 36 6 12 0 0 16 16 4 12 10 12 2 0
 | 33 33 8 12 5 6 3 0 0 4 15 6 2 6 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 6 35 2 6 2 0 0 8 300 0 0 8 5 2.4 2 6 2 2 6 2 4 2 0 8 300 3 3
 | 34 3 10 - 7 - 0 - 17 - 18 - 0 - 27 - 33 - 20 - 14 - 0 - 34 - 20 - 14 - 20 - 14 - 20 - 14 - 20 - 14 - 20 - 14 - 10 - | 5 36 7 0 5 11 0 0 12 11 1 0 0 0 36 22 38 33 10 22 14 11 10 22 24 33 14 11 10 22 2 2 2 2
 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 9 13 2 4 6 2 0 0 1 37 1 37 2 8 6 18 0 0 8 26 2 10 6 16 4 8 2 4 | 38 39 6 4 6 3 0 00 12 7 1 8 5 00 0 00 38 43 38 43 12 8 12 6 0 00 24 14 12 6 2 16 12 6 12 6 12 6 12 6 12 10
 | 40
6
12
0
18
2
5
0
25
32
24
0
36
12
24
4
10
10
10
10
10
10
10
10
10
10 | 41 4 3 6 0 9 6 0 0 0 35 41 0 0 35 12 0 18 6 12 12 0 12 0 | 42 4 4 2 0 6 3 1 0 40 4 4 8 4 0
12 8 4 6 2 | 33 44 7 1 2 6 0 0 2 2 0 0 33 1 2 2 0 0 34 42 41 42 4 112 0 0 18 14 14 2 4 12 6 2 4 6 | 45 1 4 6 1 0 0 7 5 1 3 0 0 9 39 3 45 2 8 2 2 4 10 2 2 2 2 2 6 | SUM
246
215
3
464
159
99
0
0
1528
1786
492
430
6
9
928
510
418
318
198
 | MEAN 5.47 4.78 0.07 10.31 2.20 0.00 33.96 9.56 0.13 20.62 11.33 9.29 7.07 4.40 | VAR : | D SE
 | Sample
Adequacy
Adequacy
0.82
1.12
0.00
1.53
70.21
0.82
1.11 |
| 1-foot Over Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points All vegetation Points Rock Utter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Veg Cover Total Annual/Biennial Rock Utter Utter Utter Other | 1
sect (50 Point
10
11
0
21
2
3
0
22
20
22
20
22
4
6
6
0 | 2
int Transe
7
3
0
10
6
0
0
34
40
0
34
40
14
6
0
14
6
12
12
0
0
0 | 3 4 6 2 2 2 10 4 4 0 32 4 4 4 20 18 8 8 0 0 | 4 5 0 0 0 0 5 5 6 0 0 34 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5

 | 6 8 0 14 1 5 0 30 36 12 16 0 28 12 16 2 10 0

 | 3 3 3 2 1 1 1 0 6 4 1 8 0 1 0 0 0 1 13 37 14 46 4 2 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 0 0 0 | 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3 10 0 1 0 1 3 1 0 1 3 1 0 1 3 1 0 1 3 1 0 1 0 1 20 1 20 1 20 1 20 1 18 1 0 1 0 1 | 1 3 3 5 0 0 4 8 7 5 1 0 0 0 8 37 16 42 2 6 6 10 2 6 6 10 2 6 6 10 2 0 0 0
 | 12
5
7
0
12
3
1
1
0
0
34
38
10
10
14
0
0
24
10
0
24
10
14
6
6
2
2
0 | 13 14 11 8 3 12 0 0 14 20 5 2 7 1 0 0 0 0 22 16 6 24 0 0 0 0 22 16 6 24 10 4 10 4 14 2 0 0

 | 15 8 1 2 2 0 0 2 6 1 4 0 0 7 37 0 47 6 2 4 4 0 6 2 8 2 4 4 12 2 8 0 0

 | 16 7 11 0 18 1 2 0 29 32 4 22 23 | 17
4
0
0
4
3
4
4
0
3
9
3
9
4
6
8
8
0
0
6
8
8
0
0
0
0
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| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Percent Cover Grass Cover (%) Ford Cover (%) Shrub Cover (%) Total Von-Vegetation Portex Cover Total Perennial Cover Total Perennial Cover Total Perennial Cover Total Annua/Biennial Rock Litter Other Bare ground Total Non-Vegetation Total Non-Vegetation Annua/Biennial Rock Litter Other Bare ground Total Non Veg Cover Total Non Veg Cover S-foot Cover (Non-Solar Area (3Ne) | 1
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 | MEAN 5.47 4.78 0.07 10.31 3.53 2.20 0.00 33.96 39.96 9.56 0.13 20.62 7.07 4.40 0.00 67.91 7.38 | VAR : | D SE
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| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points Shrub Points All vegetation Points Rock Utter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Shrub Cover (%) Total Veg Cover Total Perennial Cover Total Non-Veg Cover Bare ground Total Non Veg Cover 3-foot Cover Non-Solar Area (3N) | 1
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| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Percent Cover Grass Cover (%) Forb Cover (%) Forb Cover (%) Forb Cover (%) Total Non-Vegetation Rock Utter Other Bare ground Total Non-Vegetation Total Non-Solar Area (3N) Number of Points per Tran Grass Points | 1 10 10 11 0 121 2 1 3 0 22 0 220 22 0 22 0 22 0 22 0 42 20 22 0 42 20 25 3 6 0 48 58 58 1 58 | 2
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 | 37 6 4 3 9 0 0 9 13 2 4 6 2 0 0 9 13 2 4 6 2 0 0 1 37 2 8 6 18 0 0 6 16 4 2 2 74 0 0 6 62 2 74 | 38 39 6 4 6 3 0 00 12 7 1 8 5 00 0 00 32 35 33 43 12 8 12 6 0 00 24 14 12 6 10 00 0 00 64 70 76 86 3 6
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| I-foot Cover Solar Area (15) Number of Points per Tran Grass Points Forb Points Shrub Points All vegetation Points All vegetation Points All vegetation Points Rock Uitter Other Bare ground Total Non-Vegetation Percent Cover Grass Cover (%) Forb Cover (%) Forb Cover (%) Shrub Cover (%) Total Vege Cover Total Annual/Biennial Rock Uitter Other Bare ground Total Non Vege Cover Total Annual/Biennial Rock Uitter Other Bare ground Total Non Vege Cover Total Non Vege | 1
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 | 12 5 7 0 12 3 1 0 34 38 10 14 6 2 0 68 76 12 11 17 | 13 14 11 8 3 12 0 0 14 20 5 2 7 1 0 0 24 27 36 30 22 16 6 24 0 0 0 0 22 16 6 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 13 14 2 4

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 | 22 23 9 7 0 4 0 0 9 11 1 2 0 0 0 0 37 36 41 39 18 14 0 8 0 0 18 14 0 8 6 2 2 4 0 8 2 4 0 8 6 2 2 4 0 18 12 2 42 78 2 2 42 78 2 2 43 37 36 2 43 37 44 37 5 6 6 6 37 7 1 </td <td>24 5 8 0 13 1 4 0 32 37 10 16 0 26 12 14 2 8 0 64 74 24 1 4 1 6</td> <td>25 26 4 1 0 3 0 0 4 4 4 7 0 0 0 0 4 4 4 7 0 0 0 0 4 3 0 0 8 8 8 4 0 0 0 0 0 0 0 0 10 0 13 13 3 1 2 0 18 14</td> <td>27 2 9 4 0 13 3 4 0 13 3 4 0 30 37 18 8 0 26 18 8 6 6 8 0 60 774 27 12 6 0 18</td> <td>8 29 4 7 4 9 0 0 8 16 2 1 4 30 0 0 36 300 42 34 8 14 8 18 0 0 16 32 8 14 8 18 4 2.3 8 14 8 18 8 18 72 600 84 68 10 10 16 6 2 1 1 10 1 10</td> <td>30 3; - - 1 - - -</td> <td>1 32 7 8 3 6 0 0 10 14 5 6 1 0 0 0 1 0 34 30 40 36 6 12 0 0 20 28 16 16 2 0 0 0 68 66 80 722 1 32 5 3 4 1 1 0</td> <td>33 33 8 12 6 3 0 0 4 15 6 2 0 0 0 0 0 0 0 0 10 0 2 6 3 0 0 0 2 6 2 6 2 4 0 8 0 0 5 2.4 2 6 2 4 0 58 0 0 5 2.4 0 58 2 70 33 12 1 3 0 0 0 0</td> <td>34 3: 10 - 7 - 10 - 7 - 11 - 5 - 0 - 20 - 14 - 0 - 33 - 20 - 14 - 0 - 34 20 10 - 0 - 54 - 66 - 34 3: 12 -</td> <td>5 36 7 7 5 1 1 1 36 1 1 1 1 1 1 0 10 2 2 0 2 2 2 2 0 0 5 36 7 1 0 0 13 </td> <td>37 6 4 3 9 0 0 9 13 2
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Table D-1 RESULTS FROM COVER TRANSECTS

2-foot Cover Non-Solar	1	2	3	4	5	5 7	8	9	10	11	12	13 14	15	16	17	18	19	20 2:	1 22	2 23	24	25	26	27 28	29	30	31	32	33 34	35	36	37 3	8 39	40	41	42	43	44	45	SUM	MEAN	N VAR	SD	SE	Sample
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Number of Points per Tran	sect (50 Po	oint Tran	sect)								-			<u>.</u>	1		-	-			<u>. </u>	I		.1			I					-	-	.1	<u> </u>	т.	I -		I -					1	
Grass Points	0	1	0	6	1	2	4 4	2	3	1	3	4	4	0 6	3	4	0	0	0	3	3 0		0	1	ь 10	1 0	4	0	4	0 :	6	0	0	1	0 0		. 5	3	5	9 9	25 <u>2</u> .	11			
Ford Points	1	13	0	5	0	0	13 16	0 13	10	9	/	0	9	1 5	2	2	0	2	0	3		0	0	1	10 1	1 1	4	0	4	1 9	14	0	0	0	1 0	4	/	0	1	1 1/	1 0	98			
Shrub Points	0	0	0	1	0	0	17 20	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 0		0 0	0	0		1 0.	02	+ +		
All vegetation Points	1	14	0	12	1	2	1/ 20	15	13	10	10	4	13	1 11	. 5	ь	U	2	0	ь	3 L	1	U	2	16 .	2 1	8	U	8	1 12	20	U	0	1	1 0	5	12	3	6	5 27	/5 6.	11	_		
Rock	10	5	16	0	9	15	0 2	1	1	2	1	4	1	9 5	4	7	5	5	21	8 1	.5 3	11	8	16	0	2 7	2	6	7	1 7	5	6	3	5	4 14	. 11	. 4	14	5	5 28	37 6.	38	+		
Litter	0	1	0	2	0	1	4 4	4	2	4	3	1	2	0 2	2	1	0	0	0	2	4 C	0 0	0	0	11	4 0	1	0	1	2 3	9	0	0	0	0 0	1	. 6	0	0) 7	77 1.	71	+		
Other	0	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0 0	0	1	0	0 0	0	0	0	0 0	0	0	0	0	0 0		0 0	0	0)	1 0.	02			
Bare ground	39	30	34	36	40	32	29 24	30	34	34	36	41	34 4	0 32	39	36	45	43	29	34 2	8 4/	38	42	31	23 :	2 42	39	44	34	46 28	16	44	47	44 4	15 36	33	28	33	39	9 161	10 35.	/8			
Total Non-Vegetation	49	36	50	38	49	48	33 30	35	37	40	40	46	37 4	9 39	45	44	50	48	50	44 4	7 50	49	50	48	34 3	8 49	42	50	42	49 38	30	50	50	49 4	9 50	45	38	47	44	1 197	75 43.	89			
Percent Cover											-1		-1		1 -1			_	- 1			1 - 1				- 1					1		- 1	- 1		1	1								
Grass Cover (%)	0	2	0	12	2	4	8 8	8 4	6	2	6	8	8	0 12	6	8	0	0	0	6	6 C	2	0	2	12	2 0	8	0	8	0 6	12	0	0	2	0 0	2	10	6	10) 19	90 4.	22 16.7	7 4.09	0.61	
Forb Cover (%)	2	26	0	10	0	0	26 32	26	20	18	14	0	18	2 10	4	4	0	4	0	6	0 0	0 0	0	2	20 2	2 2	8	0	8	2 18	28	0	0	0	2 0	8	14	0	2	2 35	58 7.	96 94.0	9 9.70	1.45	
Shrub Cover (%)	0	0	0	2	0	0	0 () 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0 0	0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 0	C	0 0	0	0)	2 0.	04 0.0	9 0.30	0.04	
Total Veg Cover	2	28	0	24	2	4	34 40	30	26	20	20	8	26	2 22	10	12	0	4	0	12	6 0	2	0	4	32 2	4 2	16	0	16	2 24	40	0	0	2	2 0	10	24	6	12	2 55	50 12.	22 150.9	5 12.29	1.83	285.20
Total Perennial Cover	0	2	0	14	2	4	8 8	4	6	2	6	8	8	0 12	6	8	0	0	0	6	6 C	2	0	2	12	2 0	8	0	8	2 8	12	0	0	2	0 0	2	10	6	10) 19	96 4.	36 17.5	1 4.18	0.62	
Total Annual/Biennial	2	26	0	10	0	0	26 32	26	20	18	14	0	18	2 10	4	4	0	4	0	6	0 0	0 0	0	2	20 2	2 2	8	0	8	0 16	28	0	0	0	2 0	8	3 14	0	2	2 35	54 7.	87 93.8	9 9.69	1.44	
Rock	20	10	32	0	18	30	0 4	2	2	4	2	8	2 1	.8 10	8	14	10	10	42	16 3	0 6	22	16	32	0	4 14	4	12	14	2 14	10	12	6	10	8 28	22	8	28	10) 57	74 12.	76			
Litter	0	2	0	4	0	2	8 8	8 8	4	8	6	2	4	0 4	4	2	0	0	0	4	8 C	0 0	0	0	22	8 0	2	0	2	4 6	18	0	0	0	0 0	2	12	0	0) 15	54 3.	42			
Other	0	0	0	0	0	0	0 (0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0 0	0 0	0	2	0	0 0	0	0	0	0 0	0	0	0	0	0 0	0	0 0	0	0)	2 0.	04			
Bare ground	78	60	68	72	80	64	58 48	60	68	68	72	82	68 8	64	78	72	90	86	58	68 5	6 94	76	84	62	46 6	4 84	78	88	68	92 56	32	88	94	88 9	90 72	66	56	66	78	3 322	20 71.	56			
Total Non Veg Cover	98	72	100	76	98	96	66 60	70	74	80	80	92	74 9	8 78	90	88	100	96	100	88 9	4 100	98	100	96	68 7	6 98	84	100	84	98 76	60	100	100	98	98 100	90	76	94	88	3 395	50 87.	78			
1-foot Cover Non-Solar	1	2	3	4	5	5 7	8	9	10	11	12	13 14	15	16	17	18	19	20 21	1 22	2 23	24	25	26	27 28	29	30	31	32	33 34	35	36	37 3	8 39	40	41	42	43	44	45	SUM	MEAN	VAR	SD	SE	Sample
Number of Points per Tran	sect (50 Pr	oint Tran	sect)	I		-	-			I				-		I			-		-					-	I		I			I			-							-		I	racquacy
Grass Points	4	3	0	7	0	0	2 :	4	5	10	1	4	0	0 6	0	0	3	6	0	8	3 1	2	0	3	0	0 1	1	0	4	0 7	0	1	9	6	1 0		0	0	0	10	10 2	22	1 1	1	
Earb Points	0	1	0	6	0	0	1 1	2	7	10	1	2	1	1 2	0	0	0	4	0	4	0 0		0	2	3	7 1	2	0	0	6 3	0	0	2	0	3 0	1	0	0	2	20	74 1	64	1 1		
Shruh Points	0	0	0	0	0	0	0 0	0	,	4	0	0	0	0 0	0	0	0	0	0	0	0 0		0	0	0	0 0	0	0	0	0 0	0	0	0	0	0 0		0	0	0	, 1	0 0	00	+ +		
All vegetation points	4	4	0	13	0	0	3 4	6	12	14	2	6	1	4 5	0	0	3	10	0	12	3 1	5	0	5	3	7 2	3	0	4	6 4	0	1	11	6	4 0	1	0	0	2	2 17	74 3	87	+ +		
Pock	12	•	7	15	21	12	2 1	11	7		0	0	4 1	0 3	7	6	10	20	0	4 1	4 7		12	2	16	/ 2	10	0	C	12 13	°	12	2	2	7 0		. 0	11	14	1 25		on	1 1		
littor	1	2	,	2	0	0	1 (1 1	6	2	1	4	0	0 0	, ,	1	10	1	0	2	1 0	0	12	5	0		10	0	0	0 1	0	0	4	0	1 0		, ,		14	1 1	10 1	07			
Other	1	2	0	0	0	0	0 0	0 0	0	0	1	4	0	0 0	0	1	0	0	0	0			1	0	0	0 0	0	0	0	0 0	0	0	4	0	0 0			0	0	, 4)	+0 1.	07			
Bare ground	33	36	43	31	29	38	43 43	32	25	28	38	32	45 3	6 30	43	43	32	36	41	31 3	2 47	42	37	37	31 3	9 42	37	42	41	31 32	42	37	33	41 :	18 42	43	42	39	34	1 167	73 37	18			
Total Non-Veretation	46	46	50	37	50	50	43 4.	32	2.5	20	/8	44	40 /	6 43	50	50	47	40	50	38 /	7 /0	42	50	45	A7 /	3 /18	47	50	41	AA AF	50	10	30	41 .	16 50	4.	50	50	/18	207	76 46	13	+ +		
Porcent Cover	40	40	50	57	50	50	47 40	, 44	50	50	40	44		42	50	50		40	50	50		45	50	45		5 40	47	50	40		50	45	35		0 50	1 43	50	50	40	207	40.	1.5	1 1		
Grass Cover (%)		6	0	14	0	0	4		10	20	2	0	0	0 13		0	6	12	0	16	c 7		0	c	0	0 2	2	0	0	0 /	0	2	10	12	2 0	1		0	0	20	10 4	44 20.1	E E 40	0 02	
Glass Cover (%)	0		0	14	0	0	4 (0	10	20	2	0	U	0 12	. 0	0	0	12	0	0	0 2	4	0	4	6 1	4 2	2	0	0	12 4	0	2	10	12	6 0		0	0	0	1 14	10 2	30 10 1	1 4.02	0.62	
	8	2	0	12	0	0	2 -		14	0	2	4	2	0 /	0											4 /	- 4													+ 1 14				0.00	
Shruh Cover (%)	8	2	0	12	0	0	2 2	4	14	8	2	4	2	8 4	0	0	0	0	0	0		0	0	4	0	0 0	0	0	0	12 4	0	0	4	0	0 0			0			0 0	29 10.2	0.00	0.00	
Shrub Cover (%)	8 0 0	2	0	12 0	0	0	2 2	4 0 0	14	8 0	2	4	2	8 4	0	0	0	0	0	0		0 0	0	0	0	0 0	0	0	0	0 0	0	0	4 0	0	0 0	0	0 0	0	0)	0 0.	29 10.2 00 0.0	0 0.00	0.00	202.26
Shrub Cover (%) Total Veg Cover Total Perceptial Cover	8 0 0 8	2 0 8	0 0 0	12 0 26	0 0 0 0	0 0 0 0	2 2 0 0 6 8	4 0 0 12	14 0 24	8 0 28	2 0 4	4 0 12	2 0 2	8 4 0 0 8 16	0 0 0 0	0	0 0 6	0 20	0 0 0	0 24	0 0 6 2	0 0	0	0 10	0 6 1	0 0 4 4	0 6	0	0 8	12 2 0 0 12 8	0 0 0	0 0 2	4 0 22	0 12 13	0 0 8 0		0 0 2 0	0 0 0	0 4) 1 34	0 0. 18 7.	29 10.2 00 0.0 73 61.9	0 0.00 3 7.87	0.00	292.26
Shrub Cover (%) Total Veg Cover Total Perennial Cover Total Appual/Bieppial	8 0 8 8	2 0 8 6	0 0 0	12 0 26 14	0 0 0	0 0 0 0	2 2 0 0 6 8 4 6	4 0 0 6 12 6 8	14 0 24 10	8 0 28 20	2 0 4 2 2	4 0 12 8	2 0 2 2	8 4 0 0 8 16 0 12	0 0 0 0	0 0 0	0 6 6	0 20 12	0 0 0	0 24 16	0 0 6 2 6 2	0 0 10 4	0 0 0	0 10 6	0 6 1 0	0 0 4 4 0 4	0 6 2	0 0 0	0 8 8	12 2 0 0 12 8 0 4	0 0 0	0 2 2	4 0 22 18	0 12 12	0 0 8 0 2 0		0 0 2 0 0 0	0 0 0	0 4 0	1 34 20 1 14	0 0. 18 7. 14 4.	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6	0 0.00 3 7.87 1 5.45 2 4.0°	0.00 1.17 0.81	292.26
Shrub Cover (%) Total Veg Cover Total Perennial Cover Total Annual/Biennial Perek	8 0 8 8 0	2 0 8 6 2	0 0 0 0	12 0 26 14 12	0 0 0 0 0	0 0 0 0 0	2 2 0 0 6 8 4 6 2 2 2	4 0 0 8 12 6 8 8 9 4	14 0 24 10 14	8 0 28 20 8	2 0 4 2 2	4 0 12 8 4	2 0 2 2 0	8 4 0 0 8 16 0 12 8 4	0 0 0 0	0 0 0 0	0 6 6 0	0 20 12 8	0 0 0 0	0 24 16 8	0 0 6 2 6 2 0 0	0 0 10 4 0 6	0 0 0 0 0	0 10 6 4	0 6 1 6 1	0 0 4 4 0 4 4 0 4 0	0 6 2 4	0 0 0 0	0 8 8 0	12 4 0 0 12 8 0 4 12 4 26 26	0 0 0 0	0 0 2 2 0	4 0 22 18 4	0 0 12 12 0	0 0 8 0 2 0 6 0		0 0 2 0 0 0 2 0	0 0 0 0	0 4 0 4	34 34 0 20 1 14	0 0. 48 7. 04 4. 14 3.	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6	0 0.00 3 7.87 1 5.45 2 4.08	0.00 1.17 0.81 0.61	292.26
Shrub Cover (%) Total Veg Cover Total Perennial Cover Total Annual/Biennial Rock Litter	8 0 8 8 0 24	2 0 8 6 2 16	0 0 0 0 14	12 0 26 14 12 8	0 0 0 0 42	0 0 0 0 24	2 2 0 0 6 8 4 6 2 2 6 6	4 0 0 6 12 6 8 14 6 22	14 0 24 10 14 14	8 0 28 20 8 10 6	2 0 4 2 2 18 2	4 0 12 8 4 16 8	2 0 2 0 8 2 0	8 4 0 0 8 16 0 12 8 4 0 6 0 6	0 0 0 0 0 0 14	0 0 0 0 12 2	0 0 6 0 20 10	0 20 12 8 6	0 0 0 0 18	0 24 16 8 8 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 10 10 4 4 6 6	0 0 0 0 24 2	0 10 6 4 6	0 6 1 6 1 32 0	0 0 4 4 0 4 4 0 8 6 0 6	0 6 2 4 20	0 0 0 0 16	0 8 8 0 10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 16	0 0 2 0 24 0	4 0 22 18 4 4 8	0 0 12 12 0 6	0 0 8 0 2 0 6 0 14 16 2 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 22	0 4 0 4 28	1 34 20 1 14 3 71	0 0. 48 7. 04 4. 14 3. 10 15. 06 3	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6 78 13	0 0.00 3 7.87 1 5.45 2 4.08	0.00 1.17 0.81 0.61	292.26
Shrub Cover (%) Total Veg Cover Total Perennial Cover Total Annual/Biennial Rock Litter Other	8 0 8 8 0 24 2 0	2 0 8 6 2 16 4	0 0 0 0 14 0	12 0 26 14 12 8 4	0 0 0 0 42 0	0 0 0 0 24 0	2 2 0 0 6 8 4 6 2 2 6 6 2 0 0 0	4 0 00 6 12 6 8 7 4 6 22 0 2	14 0 24 10 14 14 12 0	8 0 28 20 8 10 6	2 0 4 2 2 18 2 0	4 0 12 8 4 16 8	2 0 2 2 0 8 2 0 0	8 4 0 0 0 8 16 0 12 8 4 0 6 0 0 0 0	0 0 0 0 0 14 0	0 0 0 0 12 2	0 6 0 20 10	0 20 12 8 6 2	0 0 0 0 18 0	0 24 16 8 8 2 6	0 0 0 6 2 6 2 0 0 0 8 14 2 0 0 0	0 0 10 4 6 6 0 0 0 0 0	0 0 0 0 24 2	0 10 6 4 6 10	0 6 1 6 1 32 0	0 0 4 4 0 4 4 0 8 6 0 6 0 0	0 6 2 4 20 0	0 0 0 16 0	0 8 8 0 10 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 16 0	0 0 2 2 0 24 0	4 0 22 18 4 4 8	0 12 12 0 6 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 22 0 0	0 4 0 4 28 0	34 34 34 3 3 3 71 3 71 3 71 3 71 3 71 3 71 3 4 3 71 3 4 3 4 4 4 4 5 5 6 6 6 7 7 7 7 7 7 7 7	0 0. 18 7. 04 4. 104 3. 10 15. 06 2. 0 0.	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6 78 13 00 00	0 0.00 3 7.87 1 5.45 2 4.08	0.00 1.17 0.81 0.61	292.26
Total Veg Cover (%) Total Veg Cover Total Perennial Cover Total Annual/Biennial Rock Litter Other Bare ground	8 0 8 8 0 24 2 0 66	2 0 8 6 2 16 4 0 72	0 0 0 0 14 0 0 86	12 0 26 14 12 8 4 0 52	0 0 0 0 42 0 0 58	0 0 0 0 24 0 0 76	2 2 0 0 6 8 4 6 2 2 6 6 2 0 0 0 86 86	4 0 0 12 12 12 12 12 12 12 12 12 12 12 12 12	14 0 24 10 14 14 12 0 50	8 0 28 20 8 10 6 0 56	2 0 4 2 2 18 2 0 76	4 0 12 8 4 16 8 0 64	2 0 2 0 8 2 0 0 0 0 0 0 0	8 4 0 0 8 16 0 12 8 4 0 6 0 6 0 0 0 0 0 0 0 0	0 0 0 0 0 14 0 0 0 0 86	0 0 0 0 12 2 0 86	0 0 6 0 20 10 0 64	0 20 12 8 6 2 0 72	0 0 0 0 18 0 0 0 82	0 24 16 8 8 2 6 0 62 6	0 0	0 0 10 10 6 6 6 6 0 0 0 0 0 0 0	0 0 0 0 24 2 0 74	0 10 6 4 6 10 0 74	0 6 1 0 6 1 32 0 0 6 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 4 4 0 4 4 0 8 6 0 6 0 0 8 84	0 6 2 4 20 0 0 74	0 0 0 16 0 84	0 8 8 0 10 0 82	12 2 0 0 12 8 0 4 12 4 26 26 0 2	0 0 0 0 16 0 0 84	0 2 2 0 24 0 0 74	4 0 22 18 4 4 4 8 0	0 12 12 0 6 2 0 0 82	0 0 0 0 8 0 2 0 6 0 14 16 2 0 0 0 76 84		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 22 0 0 0 78	0 4 0 4 28 0 0 0 0 0 0	34 34 34 34 14 371 9 9 33 33 33 33 33 33	0 0. 48 7. 94 4. 14 3. 10 15. 96 2. 0 0. 16 74	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6 78 13 00 36	0 0.00 3 7.87 1 5.45 2 4.08	0.00 1.17 0.81 0.61	292.26
Total Veg Cover (%) Total Veg Cover Total Aprennial Cover Total Annual/Biennial Rock Litter Other Bare ground Total Non Veg Cover	8 0 8 8 0 24 2 2 0 66 92	2 0 8 6 2 16 4 0 72 92	0 0 0 0 14 0 0 86 100	12 0 26 14 12 8 4 0 62 74	0 0 0 42 0 0 58	0 0 0 24 0 76 100	2 2 0 0 6 8 4 6 2 2 6 6 2 0 0 0 86 88 94 92	4 0 0 0 12 13 12 14 15 12 15 12 12 12 12 12 12 12 12 12 12 12 12 12	14 0 24 10 14 14 12 0 50 76	8 0 28 20 8 10 6 0 56 72	2 0 4 2 2 18 2 0 76 96	4 0 12 8 4 16 8 0 64 88	2 0 2 0 8 2 0 0 90 7 98	8 4 0 0 8 16 0 12 8 4 0 6 0 0 0 0 0 0 0 0 12 78 12 84	0 0 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 12 2 0 86 100	0 6 6 0 20 10 0 64 94	0 20 12 8 6 2 0 72 80	0 0 0 18 0 0 82 100	0 24 16 8 26 0 62 76	0 0 0 0 0 0 0 6 2 0 0 0 8 14 2 0	0 0 10 4 6 6 0 0 0 0 0 0 0 0 0	0 0 0 24 2 0 74	0 10 6 4 6 10 0 74 90	0 6 1 0 6 1 32 0 0 6 2 7 94 5	0 0 4 4 0 4 0 4 4 0 8 6 0 6 0 0 8 84 6 96	0 6 2 4 20 0 0 74 94	0 0 0 16 0 84	0 8 8 0 10 0 82 92	12 2 0 0 12 8 0 4 12 4 26 26 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 16 0 0 84 100	0 2 2 0 24 0 0 74 98	4 0 22 18 4 4 4 8 0 66 78	0 12 12 0 6 3 0 0 82 88	0 0 8 0 2 0 6 0 14 16 2 0 0 0 0 76 84 92 100		0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 22 0 0 0 78 100	0 4 0 4 28 0 0 0 0 68 96	34 34 0 20 1 14 3 71 9 9 0 3334 5 415	No 3. 0 0. 48 7. 94 4. 14 3. 10 15. 96 2. 0 0. 46 74. 52 92	29 16.2 00 0.0 73 61.9 53 29.7 20 16.6 78 13 00 36 27	0 0.00 3 7.87 1 5.45 2 4.08	0.00 1.17 0.81 0.61	292.26

Table D-2 SPECIES COMPOSITION FROM COVER TRANSECTS

Abbreviation Scientific Name Common Name	1 2 3 5 6 7 9 11 12 13 14 16 18 20 22 23 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49 50 51 52 58 59 60 70at 7anet 7anet 7bit 7anet
AcHY Achnatherum hymenoides Indian ricegrass ELTR Elymus trachycoulus Slender wheatgrass FEAR Festua arizonia Arizona fescue PASM Pascopyrum smithii Western wheatgrass PSSP Pseudoroegneris spicata Bluebunch wheatgrass SPCR Sporobolus cryptandrus Sand dropseed	0 4 0 1 0 1 0 1 0 1 2 1 0 1 0 1 0 1 0 1 2 0 1 0 1 0 1 0 0 1 0 1 0 0 1 0 0 1 0
Forbs ARLU Artemisia ludoviciana Lauisiana wormwood GRSQ Grindelia squarrasa Curtycup gumwed MRAL Melilotus alba White sweetclover MEOF Melilotus dificialis Yellow sweetclover MESA Medicaoo sadivo Alfalfa	V = V = V = V = V = V = V = V = V = V =
SACO Salsola collina Smooth Russian thistle SATR Salsola tragus Russian thistle Shrubs CELA Ceratoides Janata Winterfat CRVV Chrosothamus visidiffans Yellow rabhithrush	0 0
ERNA Ericameria nasessus Raiburah RAI Species Tatal # of Seesies	0 0
2-foot Cover Solar Area (2S) Abbreviation Scientific Name Common Name	Number of a line line line of a l
Grasses ACHY Achnotherum hymenoides Indian ricegrass ELTR Elymus trachycoulus Slender wheatgrass FEAR Festuc arizonica Arizona fescue	a b
PASM Pascoprum snihli Western wheatgrass PSSP Pseudoroegneria spicota Bluebunch wheatgrass SPCR Sporobolus cryptandrus Sand dropseed Forbs	0 0 1 1 2 2 1 1 7 1 0 2 4 1 0 1 0 0 1 <th1< th=""> <th1< th=""> <th1< th=""> <</th1<></th1<></th1<>
ARLU Artemisia ludoviciana Louisiana wormwood ERDI Erigeron divergens Spreading fleabane GRSQ Grindelia squarrosa Curlycup gumweed MEOF Meliatus difficinalis Yellow sweetchover	0 0 1 0 0 2 0 1 0
SACO Salsola collina Smooth Russian thistle	
SACD Solvalor collino Sinoath Russian thistle SATR Solvalor tragos Russian thistle Trifolium sp. Trifolium sp. Clover All Species	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
SACD Solidor collino Sencoth Russian thistle SATR Solido trogus Russian thistle Clover Clover All Species Total # Species	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
SACD Solidor collino Sencoth Russian thistle SATR Solido tragus Clover Trifolium sp. Clover All Species Total # Species	0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 0
SACD Subolo collina Smooth Russian thistle Rus	0 1 0 1 0 1 0 1 1 0 1 1 0
SACD Salkola collina Smooth Russian thistle SATR Salkola collina Smooth Russian thistle Russian thistle Trifolium sp. Clover All Species 1-foot Cover Solar Area (15) Abbreviation Scientific Name Common Name Grasses ACRY Achnotherum hymenoides ACRY Achnotherum hymenoides Common Name Common	0 1 0
SACD Solvalo rogins Results Interview Results In	a b b b b c b c b c <td< th=""></td<>
SACD Solvalo rogin SATR Solvalo trogin Trifolium sp. Clover Clover All Species I-foot Cover Soluto Argung Abbreviation Scientific Name Common Name Grasses AcCH Achantherum hymenoides ACHY Achantherum hymenoides ACHY Achantherum hymenoides ACHY Achantherum hymenoides ACHY Achantherum sithi Pasedoropyrin smithi PSSP Paedoropyrin smithi PSSP Paedoropyrin smithi PSSP Common Solution Antipolicity Common Solution Solution Common Solution Common Name Common Name Commo	a b a b a b a b a b a b a b a b a b </th
SACO Sukelo collina SATR Sukelo tragus Trifolium sp. Clover Clover All Species 1-foot Cover Solar Area (15) Abbreviation Scientific Name Common Name Grasses ACHY Achnatherum hymenoides Grasses ACHY Achnatherum hymenoides Crested wheatgrass ACHY Achnatherum spinotic FEAR Festuca arizonica PSSM Pseudorogravita Bluebunch wheatgrass Brass FEAR Festus arizonica PSSM Pseudorogravita Bluebunch wheatgrass Buebunch wheatgrass Bluebunch wheatgrass Bluebunch wheatgrass Bluebunch wheatgrass Shrubs Critic Achiola tragus Reas Allul Artemisia ludoviciona KOSC Kochia scoparia Shrubs CHVI Chrysothamnus viscidiflorus ENNA Ericameria naseosus	0 0
SACO Solubo tragus Russian thistle Russian Russian Russian thistle Russian Rus	a </th
SACO Schole rogue Sarta Schole rogue Trifolium sp. Clover All Species 1-foot Cover Solar Area (15) Abbreviation Scientific Name Common Name Grasses Active Active Solar Area (15) Abbreviation Scientific Name Common Name Grasses Active Active Active Solar Area (15) Abbreviation Scientific Name Common Name Grasses Active Active Active Solar Area (15) Common Name Grasses Active Active Solar Area (15) Abbreviation Scientific Name Common Name Grasses Active Active Solar Area (15) Abbreviation Scientific Name Common Name Grasses Active Active Solar Area (15) Buebunch wheatgrass PS-P Pseudorogenerie spicate Buebunch wheatgrass Prote Solar Area (15) Solar Toposothammus viscidiforus ENNA Prosothammus viscidiforus ENNA Prevalence Solar Area (15) Solar Area (15) Solar Area (15) Chrysothammus viscidiforus ENNA Prevalence Solar Area (15) Chrysothammus viscidiforus ENNA Prevalence Solar Area (15) Solar Area (15) Chrysothammus viscidiforus Chrysothammus viscidiforus Chrysoth	a </th
SACD Subole colline Sance Revealed in the Section of Colline SATE Trifolium sp. Clover Clover Trifolium sp. Clover Clover Trifolium sp. Trifolium sp. Clover Solar Area (15) Abstreviation Scientific Name Common Name Abbreviation Scientific Name Common Name Grasses Indian ricegrass Crested wheatgrass ACCR Activation Spice Clover Indian ricegrass Crested wheatgrass Indian ricegrass Crested wheatgrass SATE Scientific Name Common Name Grasses Indian ricegrass Crested wheatgrass SATE Scientific Name Louisiana wormwood Kocha SATE Specific Name Louisiana wormwood Kocha MEDF Meliobus officinalis Vellow raebithrush MEDF Meliobus officinalis Vellow raebithrush Shrubs Chrysotharmus viscid/florus Yellow rabithrush ChVI Chrysotharmus viscid/florus Peliow raebithrush Shrubs Chrysotharmus viscid/florus All Species Shrubs Trictal # Species Total # Species Shrubs Chrysotharmus viscid/florus Peliow rabithrush <td< th=""><th>a b</th></td<>	a b
SACO Schebr colline Specific Name Common Name Colline Specific Name Common Name Common Name Colline Specific Name Common Name	0 0
SACO Schole rogue Research Service Research Service Research Resea	0 </th
SACO Schob rogues Sara Schob rogues Trifolium sp. Clover Clover Trifolium sp. Clover Table Clover Table Clover Table Clover Table Clover Table Clover Table Clover Abbreviation Scientific Name Common Name Grasses Acres Agroperon cristotum Grasses Acres Agroperon cristotum Grasses Acres Agroperon cristotum Grasses Acres Agroperon cristotum Grasses Acres Agroperon cristotum Grasses Acres Agroperon cristotum Grasses FEAR Pestudo cognerio spicata Bluebunch wheetgrass Bluebunch wheetgrass Buebunch wheetgrass Brobs Grosses Grass	0 0 0 0 0 0 0
SACO Schole rogues Research Indian ricegrass Trifolium sp. Clover Trifolium sp. Trifolium sp. Clover All Species Trifolium sp. Trifolium sp. Clover All Species I-foot Cover Solar Area (15) Abbreviation Scientific Name Common Name Grasses Forbs ACHY Achantherum Immenoides ACHY Achantherum sp. Scientific Name Common Name Forse Forbs AU ACHY Achantherum Sp. Scientific Name Common Name Forbs Shubs Cover Solar Area (15) Abbreviation Scientific Name Common Name Solar Area (15) Abbreviation Scientific Name Common Name Crasses Forbs AU Actemisia Iudoviciana KOSC Kachia sogaria Solato tragus Solato tragus Active Tabletorum Solato tragus Active Tabletorum Forbs ACHY Achantherum Immenoides Active Tabletorum Forbs AU Actemisia Iudoviciana KOSC Kachia sogaria Solato tragus Solato tragus Active Tabletorum Forba Active Active Tabletorum Forba	
SACO Schola ragin and a scholar and a schola	1 </th

Table D-2 SPECIES COMPOSITION FROM COVER TRANSECTS

2-foot Cover N	n-Solar Area (2N)		Number of Points Per Transect (50 Point Transect)
Abbreviation	Scientific Name	Common Name	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 Table to the state of t
Grasses ACHY FEAR PASM PSSP	Achnatherum hymenoides Festuca arizonica Pascopyrum smithii Pseudoroegneria spicata	Indian ricegrass Arizona fescue Western wheatgrass Bluebunch wheatgrass	0 0
ARLU GRSQ MEOF MENU SACO SATR	Artemisia ludoviciana Grindelia squarrosa Melilotus officinalis Mentzelia nuda Salsola collina Salsola tragus	Louisiana wormwood Curlycup gumweed Yellow sweetclover Smooth Russian thistle Russian thistle	0 0
Shrubs ERNA	Ericameria naseasus	Rubber rabbitbrush All Species	Image: Notation of the control of t
1-foot Cover N	n-solar Area (1N)	Total # Species	Image: Normal condition Image: Normal
Abbreviation	Scientific Name	Common Name	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Grasses ACHY BRIN FEAR PASM PSSP SPCR	Achnatherum hymenoides Bromus inermis Festuca arizonica Pascopyrum smithii Pseudoroegneria spicata Sporobolus cryptandrus	Indian ricegrass Smooth brome Arizona fescue Western wheatgrass Bluebunch wheatgrass Sand dropseed	1 1 0 0 1 0 1 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0
Forbs ARLU LASE MEOF MESA SATR	Artemisia ludoviciana Lactuca serriola Melilotus officinalis Medicago sativa Salsola tragus	Louisiana wormwood Prickly lettuce Yellow sweetclover Alfalfa Russian thistle	v + v + v + v + v + v + v + v + v + v +
		Total points per transect	4 0 13 0 0 3 4 6 12 14 2 6 1 4 8 0 12 3 1 5 0 5 3 7 2 3 0 4 6 1 1 6 4 0 1 0 0 2 14 34 347 7.33 10 3 7.33 10 3 7.33 10 1 1 6 4 0 1 1 0 0 2 14 348 347 7.33 10 3 7.33 10 1 1 0 1 0 0 2 14 348 347 7.33 10 3 7.33 10 1 1 0 1 0 0 2 14 34 347 7.33 10 1 1 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0

Leastien	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio		al 1 (1 a 2	Church a /a ana
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Shrubs/acre
1-foot Cover Non-Solar Are	ea (1N)								
1N-1	0	0	0	0	0	0	0	0.00	0.00
1N-2	0	0	0	0	0	0	0	0.00	0.00
1N-3	0	0	0	0	0	0	0	0.00	0.00
1N-4	2	0	2	0	0	0	4	53.33	2159.19
1N-5	0	0	0	0	0	0	0	0.00	0.00
1N-6	0	0	0	0	0	0	0	0.00	0.00
1N-7	0	0	0	0	0	0	0	0.00	0.00
1N-8	0	0	1	0	0	0	1	13.33	539.80
1N-9	0	0	0	0	0	0	0	0.00	0.00
1N-10	1	0	0	0	0	0	1	13.33	539.80
1N-11	0	0	0	0	0	0	0	0.00	0.00
1N-12	0	1	1	0	0	0	2	26.67	1079.60
1N-13	0	0	0	0	0	0	0	0.00	0.00
1N-14	0	0	0	0	0	0	0	0.00	0.00
1N-15	0	0	0	0	0	0	0	0.00	0.00
1N-16	0	1	0	0	0	0	1	13.33	539.80
1N-17	0	0	0	0	0	0	0	0.00	0.00
1N-18	0	0	0	0	0	0	0	0.00	0.00
1N-19	0	0	0	0	0	0	0	0.00	0.00
1N-20	0	0	0	0	0	0	0	0.00	0.00
1N-21	0	0	0	0	0	0	0	0.00	0.00
1N-22	0	1	0	0	0	0	1	13.33	539.80
1N-23	0	0	0	0	0	0	0	0.00	0.00
1N-24	0	0	0	0	0	0	0	0.00	0.00
1N-25	0	0	0	0	0	0	0	0.00	0.00
1N-26	0	0	0	0	0	0	0	0.00	0.00
1N-27	1	0	0	0	0	0	1	13.33	539.80
1N-28	0	0	0	0	0	0	0	0.00	0.00
1N-29	0	0	0	0	0	0	0	0.00	0.00
1N-30	0	0	2	0	0	0	2	26.67	1079.60
1N-31	0	0	1	0	0	0	1	13.33	539.80
1N-32	0	0	0	0	0	0	0	0.00	0.00
1N-33	0	0	0	0	0	0	0	0.00	0.00
1N-34	1	0	1	0	0	0	2	26.67	1079.60
1N-35	0	0	1	0	0	0	1	13.33	539.80
1N-36	0	0	0	0	0	0	0	0.00	0.00

Leasting	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio	al 1 /= - 2	a) // // 2	Church a /a ana
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Shrubs/acre
1N-37	0	0	0	0	0	0	0	0.00	0.00
1N-38	0	0	0	0	0	0	0	0.00	0.00
1N-39	0	0	0	0	0	0	0	0.00	0.00
1N-40	0	0	0	0	0	0	0	0.00	0.00
1N-41	0	0	1	0	0	0	1	13.33	539.80
1N-42	0	0	0	0	0	0	0	0.00	0.00
1N-43	1	0	0	0	0	0	1	13.33	539.80
1N-44	0	0	0	0	0	0	0	0.00	0.00
1N-45	0	0	0	0	0	0	0	0.00	0.00
Total Count	6	3	10	0	0	0	19.00	253.33	10256.15
Average Shrub Density							0.42	5.63	227.91
Standard Deviaton							0.81	10.82	438.06
				Relative density					
By Species	Shrubs/7.5m2	Shrubs/100m2	Shrubs/acre	(per acre)					
	0.40	1.70	74.07						
CELA	0.13	1.78	/1.9/	31.58					
CHVI	0.07	0.89	35.99	15.79					
	0.22	2.96	119.96	52.63					
lotal	0.42	5.63	227.91	100.00					
2 fact Cover New Color Are	(20)								
2-foot Cover Non-Solar Are		0	0	0	0		0	0.00	0.00
2N-1	0	0	0	0	0	0	0	0.00	0.00
2N-2	1	0	0	0	0	0	1	13.33	539.80
2N-3	0	0	0	0	0	0	0	0.00	0.00
2N-4	0	0	1	0	0	0	1	13.33	539.80
2N-5	0	0	0	0	0	0	0	0.00	0.00
2N-6	0	0	0	0	0	0	0	0.00	0.00
2N-7	0	1	0	0	0	0	1	13.33	539.80
2N-8	0	0	0	0	0	0	0	0.00	0.00
2N-9	0	0	0	0	0	0	0	0.00	0.00
2N-10	0	0	0	U	0	0	0	0.00	0.00
2N-11	0	0	U	0	0	0	0	0.00	0.00
2N-12	0	0	U	0	0	0	0	0.00	0.00
2N-13	1	0	0	0	0	0	1	13.33	539.80
2N-14	1	0	2	0	0	0	3	40.00	1619.39

l a satism	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio		a) 1 (1 a 2	Church e / e ano
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m ⁻	Shrubs/acre
2N-15	0	0	0	0	0	0	0	0.00	0.00
2N-16	0	0	0	0	0	0	0	0.00	0.00
2N-17	0	0	0	0	0	0	0	0.00	0.00
2N-18	0	0	0	0	0	0	0	0.00	0.00
2N-19	0	0	0	0	0	0	0	0.00	0.00
2N-20	0	0	0	0	0	0	0	0.00	0.00
2N-21	0	0	0	0	0	0	0	0.00	0.00
2N-22	0	0	0	0	0	0	0	0.00	0.00
2N-23	0	0	0	0	0	0	0	0.00	0.00
2N-24	0	0	0	0	0	0	0	0.00	0.00
2N-25	0	0	0	0	0	0	0	0.00	0.00
2N-26	0	0	0	0	0	0	0	0.00	0.00
2N-27	0	0	0	0	0	0	0	0.00	0.00
2N-28	1	0	0	0	0	0	1	13.33	539.80
2N-29	0	0	0	0	0	0	0	0.00	0.00
2N-30	0	0	0	0	0	0	0	0.00	0.00
2N-31	0	0	0	0	0	0	0	0.00	0.00
2N-32	0	0	0	0	0	0	0	0.00	0.00
2N-33	0	0	0	0	0	0	0	0.00	0.00
2N-34	0	0	0	0	0	0	0	0.00	0.00
2N-35	0	0	1	0	0	0	1	13.33	539.80
2N-36	0	0	0	0	0	0	0	0.00	0.00
2N-37	0	0	0	0	0	0	0	0.00	0.00
2N-38	0	0	0	0	0	0	0	0.00	0.00
2N-39	0	0	0	0	0	0	0	0.00	0.00
2N-40	0	0	0	0	0	0	0	0.00	0.00
2N-41	0	0	0	0	0	0	0	0.00	0.00
2N-42	0	0	0	0	0	0	0	0.00	0.00
2N-43	0	0	0	0	0	0	0	0.00	0.00
2N-44	0	0	0	0	0	0	0.00	0.00	0.00
2N-45	0	0	0	0	0	0	0.00	0.00	0.00
Total Count	4	1	4	0	0	0	9.00	120.00	4858.18
Average Shrub Density							0.20	2.67	107.96
Standard Deviation							0.55	7.30	295.66

Location	Ceratoides lanata	Chrysothamnus viscidiflorus	Ericameria nauseosa	Gutierrezia sarothrae	Artemesia frigida	Senecio spartioides	Shrubs/7.5m ²	Shrubs/100m ²	Shrubs/acre
By Species	Shrubs/7.5m2	Shrubs/100m2	Shrubs/acre	Relative density (per acre)					
CELA	0.09	1.19	47.98	44.44					
СНVІ	0.02	0.30	12.00	11.11					
ERNA	0.09	1.19	47.98	44.44					
Total	0.20	2.67	107.96	100.00					
3- foot Cover Non-Solar Ar	ea (3N)								
3N-1	4	0	0	0	0	0	4	53.33	2159.19
3N-2	2	0	1	0	0	0	3	40.00	1619.39
3N-3	1	0	0	0	0	0	1	13.33	539.80
3N-4	2	0	0	0	0	0	2	26.67	1079.60
3N-5	1	0	0	0	0	0	1	13.33	539.80
3N-6	2	0	0	0	0	0	2	26.67	1079.60
3N-7	0	0	0	0	0	0	0	0.00	0.00
3N-8	0	0	0	0	0	0	0	0.00	0.00
3N-9	0	0	0	0	0	0	0	0.00	0.00
3N-10	3	0	0	0	0	0	3	40.00	1619.39
3N-11	1	0	0	0	0	0	1	13.33	539.80
3N-12	1	0	0	0	0	0	1	13.33	539.80
3N-13	2	0	2	0	0	0	4	53.33	2159.19
3N-14	2	0	0	0	0	0	2	26.67	1079.60
3N-15	4	0	0	0	0	0	4	53.33	2159.19
3N-16	1	0	0	0	0	0	1	13.33	539.80
3N-17	0	0	2	0	0	0	2	26.67	1079.60
3N-18	0	0	0	0	0	0	0	0.00	0.00
3N-19	3	0	0	0	0	0	3	40.00	1619.39
3N-20	1	0	0	0	0	0	1	13.33	539.80
3N-21	1	1	1	0	0	0	3	40.00	1619.39
3N-22	2	0	0	0	0	0	2	26.67	1079.60
3N-23	0	0	0	0	0	0	0	0.00	0.00
3N-24	2	0	0	0	0	0	2	26.67	1079.60
3N-25	2	0	0	0	0	0	2	26.67	1079.60
3N-26	0	0	0	0	0	0	0	0.00	0.00
3N-27	0	0	0	0	0	0	0	0.00	0.00

l	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio			Chamber (a sure
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Shrubs/acre
3N-28	5	0	0	0	0	0	5	66.67	2698.99
3N-29	0	0	0	0	0	0	0	0.00	0.00
3N-30	1	0	1	0	0	0	2	26.67	1079.60
3N-31	0	0	0	0	0	0	0	0.00	0.00
3N-32	0	0	1	0	0	0	1	13.33	539.80
3N-33	2	0	0	0	0	0	2	26.67	1079.60
3N-34	3	0	0	0	0	0	3	40.00	1619.39
3N-35	3	0	1	0	0	0	4	53.33	2159.19
3N-36	4	0	0	0	0	0	4	53.33	2159.19
3N-37	5	0	0	0	0	0	5	66.67	2698.99
3N-38	1	1	0	0	0	0	2	26.67	1079.60
3N-39	3	0	0	0	0	0	3	40.00	1619.39
3N-40	2	0	0	0	0	0	2	26.67	1079.60
3N-41	1	0	0	0	0	0	1	13.33	539.80
3N-42	5	0	0	0	0	0	5	66.67	2698.99
3N-43	0	0	1	0	0	0	1	13.33	539.80
3N-44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3N-45	3.00	0.00	0.00	0.00	0.00	0.00	3.00	40.00	1619.39
Total Count	75.00	2.00	10.00	0.00	0.00	0.00	87.00	1159.97	46962.39
Average Shrub Density		-				-	1.93	25.78	1043.61
Standard Deviation							1.53	20.38	825.09
							-		
By Spacios	Shruhe /7 Em2	Shruha /100m2	Shruha /aara	Relative density					
by species	Shrubs/7.5mz	Shrubs/100mz	Shrubs/acre	(per acre)					
CELA	1.67	22.22	899.66	86.21					
CHVI	0.04	0.59	23.99	2.30					
ERNA	0.22	2.96	119.96	11.49					
Total	1.93	25.78	1043.61	100.00					
		-							
1-foot cover Solar Area (1	s)								
1S-1	1	0	2	0	0	0	3	40.00	1619.39
1S-2	1	0	3	0	0	0	4	53.33	2159.19
1S-3	0	1	0	0	0	0	1	13.33	539.80
1S-4	2	5	1	0	0	0	8	106.66	4318.38
1S-5	2	0	0	0	0	0	2	26.67	1079.60
1S-6	1	1	0	0	0	0	2	26.67	1079.60

Location	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio	$Chruche / 7 \ Fm^2$	$h_{\rm m} = 100 {\rm m}^2$	Shrubs/acro
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Sillubs/acre
1S-7	0	0	0	0	0	0	0	0.00	0.00
1S-8	0	0	0	0	0	0	0	0.00	0.00
1S-9	0	1	1	0	0	0	2	26.67	1079.60
1S-10	0	0	0	0	0	0	0	0.00	0.00
1S-11	0	0	0	0	0	0	0	0.00	0.00
1S-12	1	0	0	0	0	0	1	13.33	539.80
1S-13	0	0	1	0	0	0	1	13.33	539.80
1S-14	0	0	0	0	0	0	0	0.00	0.00
1 S -15	2	0	0	0	0	0	2	26.67	1079.60
1S-16	0	0	0	0	0	0	0	0.00	0.00
1S-17	0	0	0	0	0	0	0	0.00	0.00
1S-18	1	0	0	0	0	0	1	13.33	539.80
1S-19	3	0	0	0	0	0	3	40.00	1619.39
1S-20	3	0	0	0	0	0	3	40.00	1619.39
1S-21	1	0	0	0	0	0	1	13.33	539.80
1S-22	2	1	0	0	0	0	3	40.00	1619.39
1S-23	2	0	0	0	0	0	2	26.67	1079.60
1S-24	3	0	0	0	0	0	3	40.00	1619.39
1S-25	0	0	0	0	0	0	0	0.00	0.00
1S-26	0	0	0	0	0	0	0	0.00	0.00
1S-27	0	0	0	0	0	1	1	13.33	539.80
1S-28	0	0	0	0	0	0	0	0.00	0.00
1S-29	0	0	0	0	0	0	0	0.00	0.00
1S-30	0	0	0	0	0	0	0	0.00	0.00
1S-31	1	0	0	0	0	0	1	13.33	539.80
1S-32	3	0	1	0	0	0	4	53.33	2159.19
1S-33	2	0	0	0	0	0	2	26.67	1079.60
1S-34	0	0	0	0	0	0	0	0.00	0.00
1S-35	5	0	0	0	0	0	5	66.67	2698.99
1S-36	2	0	2	0	0	0	4	53.33	2159.19
1S-37	3	0	0	0	0	0	3	40.00	1619.39
1S-38	0	0	0	2	0	0	2	26.67	1079.60
1S-39	0	0	0	0	0	0	0	0.00	0.00
1S-40	3	0	0	0	0	0	3	40.00	1619.39
1S-41	0	0	0	0	0	0	0	0.00	0.00
1S-42	0	0	0	0	0	0	0	0.00	0.00
1S-43	0	0	1	0	0	0	1	13.33	539.80

Location	Ceratoides Ianata	Chrysothamnus viscidiflorus	Ericameria nauseosa	Gutierrezia sarothrae	Artemesia frigida	Senecio spartioides	Shrubs/7.5m ²	Shrubs/100m ²	Shrubs/acre
1S-44	1	0	0	0	0	0	1	13.33	539.80
1S-45	8	0	0	0	0	0	8	106.66	4318.38
Total Count	53	9	12	2	0	1	77.00	1026.64	41564.41
Average Shrub Density						-	1.71	22.81	923.65
Standard Deviation							1.96	26.15	1058.67
By Species	Shrubs/7.5m2	Shrubs/100m2	Shrubs/acre	Relative density (per acre)					
CELA	1.18	15.70	635.76	68.83					
СНVІ	0.20	2.67	107.96	11.69					
ERNA	0.27	3.56	143.95	15.58					
GUSA	0.04	0.59	23.99	2.60					
SESP	0.02	0.30	12.00	1.30					
Total	1.71	22.81	923.65	100.00					
2-foot Cover Solar Area (2	S)								
2S-1	0	0	0	0	0	0	0	0.00	0.00
2S-2	2	1	1	0	0	0	4	53.33	2159.19
2S-3	0	0	0	0	0	0	0	0.00	0.00
2S-4	0	8	4	0	0	0	12	160.00	6477.57
2S-5	6	0	2	0	0	0	8	106.66	4318.38
2S-6	3	0	0	0	0	0	3	40.00	1619.39
2S-7	0	0	1	0	0	0	1	13.33	539.80
2S-8	8	1	1	1	0	0	11	146.66	5937.77
2S-9	0	0	0	0	0	0	0	0.00	0.00
2S-10	0	0	0	0	0	0	0	0.00	0.00
2S-11	3	0	0	0	0	0	3	40.00	1619.39
2S-12	1	0	0	0	0	0	1	13.33	539.80
2S-13	0	1	0	0	0	0	1	13.33	539.80
2S-14	2	1	0	0	0	0	3	40.00	1619.39
2S-15	2	0	0	0	0	0	2	26.67	1079.60
2S-16	0	0	0	0	0	0	0	0.00	0.00
2S-17	0	0	0	0	0	0	0	0.00	0.00
2S-18	0	1	0	0	0	0	1	13.33	539.80
2S-19	2	0	0	0	0	0	2	26.67	1079.60
2S-20	0	0	0	1	0	0	1	13.33	539.80

Location	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio		cl 1 (100 ²	Shruha (aara
Location	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Shrubs/acre
2S-21	1	0	0	0	0	0	1	13.33	539.80
2S-22	1	0	0	0	0	0	1	13.33	539.80
2S-23	0	0	0	0	0	0	0	0.00	0.00
2S-24	2	0	0	0	0	0	2	26.67	1079.60
2S-25	2	0	0	0	0	0	2	26.67	1079.60
2S-26	0	0	1	0	0	0	1	13.33	539.80
2S-27	0	0	0	0	0	0	0	0.00	0.00
2S-28	2	0	0	0	0	0	2	26.67	1079.60
2S-29	0	0	0	0	0	0	0	0.00	0.00
2S-30	0	0	0	0	0	0	0	0.00	0.00
2S-31	4	0	0	0	0	0	4	53.33	2159.19
2S-33	0	0	0	0	0	0	0	0.00	0.00
2S-34	0	0	0	0	0	0	0	0.00	0.00
2S-35	8	0	0	0	0	0	8	106.66	4318.38
2S-36	2	0	0	0	0	0	2	26.67	1079.60
2S-37	2	0	0	0	0	0	2	26.67	1079.60
2S-38	0	0	1	0	0	0	1	13.33	539.80
25-39	2	0	0	0	0	0	2	26.67	1079.60
2S-40	0	0	1	0	0	0	1	13.33	539.80
2S-41	2	1	0	0	0	0	3	40.00	1619.39
2S-42	0	0	0	0	0	0	0	0.00	0.00
2S-43	1	0	0	0	0	0	1	13.33	539.80
2S-44	3	0	0	0	0	0	3	40.00	1619.39
2S-45	6	0	0	0	0	0	6	80.00	3238.79
2S-46	0	0	4	0	0	0	4	53.33	2159.19
Total Count	67.00	14.00	16.00	2.00	0.00	0.00	99.00	1319.97	53439.96
Average Shrub Density						• •	2.20	29.33	1187.55
Standard Deviation							2.81	37.45	1516.33
							•		
				Relative density					
By Species	Shrubs/7.5m2	Shrubs/100m2	Shrubs/acre	(per acre)					
CELA	1.49	19.85	803.70	67.68					
CHVI	0.31	4.15	167.94	14.14					
ERNA	0.36	4.74	191.93	16.16					
GUSA	0.04	0.59	23.99	2.02					
Total	2.20	29.33	1187.55	100.00					

Location	Ceratoides	Chrysothamnus	Ericameria	Gutierrezia	Artemesia	Senecio	Shruhe /7 Em ²	Charache / 1 00 m ²	Shruhs/acro
LOCATION	lanata	viscidiflorus	nauseosa	sarothrae	frigida	spartioides	Shrubs/7.5m	Shrubs/100m	Sillubs/acre
3-foot Cover Solar Area (35	5)								
3S-1	1	0	0	0	0	0	1	13.33	539.80
3S-2	8	0	0	0	0	0	8	106.66	4318.38
3S-3	0	0	0	0	0	0	0	0.00	0.00
3S-5	0	0	0	0	0	0	0	0.00	0.00
3S-6	0	0	0	0	0	0	0	0.00	0.00
3S-7	2	0	0	0	0	0	2	26.67	1079.60
3S-9	1	0	1	0	0	0	2	26.67	1079.60
3S-11	2	0	0	0	1	0	3	40.00	1619.39
3S-12	8	0	0	0	0	0	8	106.66	4318.38
3S-13	2	4	2	0	0	0	8	106.66	4318.38
3S-14	0	0	0	0	0	0	0	0.00	0.00
3S-16	5	0	1	0	0	0	6	80.00	3238.79
3S-18	0	0	0	0	0	0	0	0.00	0.00
3S-20	0	0	0	0	0	0	0	0.00	0.00
3S-22	0	0	0	0	0	0	0	0.00	0.00
3S-23	0	0	0	0	0	0	0	0.00	0.00
3S-24	1	0	0	0	0	0	1	13.33	539.80
3S-27	1	0	0	0	0	0	1	13.33	539.80
3S-28	0	0	0	0	0	0	0	0.00	0.00
3S-29	7	0	1	0	0	0	8	106.66	4318.38
3S-30	2	0	1	0	0	0	3	40.00	1619.39
3S-31	5	1	0	0	0	0	6	80.00	3238.79
3S-32	1	1	0	0	0	0	2	26.67	1079.60
3S-33	2	1	0	0	0	0	3	40.00	1619.39
3S-34	1	0	1	0	0	0	2	26.67	1079.60
3S-35	3	0	0	0	0	0	3	40.00	1619.39
3S-36	0	0	0	0	0	0	0	0.00	0.00
3S-37	0	0	0	0	0	0	0	0.00	0.00
3S-38	1	0	1	0	0	0	2	26.67	1079.60
3S-39	9	0	0	0	0	0	9	120.00	4858.18
3S-40	14	0	0	0	0	0	14	186.66	7557.17
3S-41	4	0	0	0	0	0	4	53.33	2159.19
3S-42	2	1	0	0	0	0	3	40.00	1619.39
3S-43	1	0	0	0	0	0	1	13.33	539.80
3S-44	2	0	1	0	0	0	3	40.00	1619.39

Location	Ceratoides Ianata	Chrysothamnus viscidiflorus	Ericameria nauseosa	Gutierrezia sarothrae	Artemesia frigida	Senecio spartioides	Shrubs/7.5m ²	Shrubs/100m ²	Shrubs/acre
3S-45	1	1	0	0	0	0	2	26.67	1079.60
3S-46	2	0	0	0	0	0	2	26.67	1079.60
3S-48	2	0	0	0	0	0	2	26.67	1079.60
3S-49	3	0	0	0	0	0	3	40.00	1619.39
3S-50	2	0	2	0	0	0	4	53.33	2159.19
3S-51	0	2	0	0	0	0	2	26.67	1079.60
3S-52	0	0	0	0	0	0	0	0.00	0.00
3S-58	1	0	2	0	0	0	3	40.00	1619.39
3S-59	0	0	0	0	0	0	0	0.00	0.00
3S-60	2	0	1	0	0	0	3	40.00	1619.39
Total Count	98	11	14	0	1	0	124	1653.29	66934.90
Average Shrub Density							2.76	36.74	1487.44
Standard Deviation							3.08	41.01	1660.40
By Species	Shrubs/7.5m ²	Shrubs/100m ²	Shrubs/acre	Relative density (per acre)					
CELA	2.18	29.04	1175.56	79.03					
CHVI	0.24	3.26	131.95	8.87					
ERNA	0.31	4.15	167.94	11.29					
ARFR	0.02	0.30	12.00	0.81					
Total	2.76	36.74	1487.44	100					



Chevron Questa Tailing-Solar Facility Data Review Summary

Sample Delivery Group: 200-18417-1 Sampling Date: September 9-11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 25, 2013 Date Completed: October 30, 2013

The table below summarizes the data package and sample identifications discussed in this data review.

				Ana	lyses
Field Identification	Sample Type	Lab Identification	Matrix	Metals (6010C)	Sulfate (9056A)
RB-01-T01N-SOL	RB	200-18417-1	Water	Х	Х
CVR2TR2-2-T01N-SOL	SA	200-18417-3	Soil	Х	Х
CVR2TR2-1-T01N-SOL	SA	200-18417-4	Soil	Х	Х
CVR1TR2-3-T01N-SOL	SA	200-18417-5	Soil	Х	Х
CVR1TR2-2-T01N-SOL	SA	200-18417-6	Soil	Х	Х
CVR1TR2-1-T01N-SOL	SA	200-18417-7	Soil	Х	Х
CVR1TR1-3-T01N-SOL	SA	200-18417-8	Soil	Х	Х
CVR1TR1-2-T01N-SOL	SA	200-18417-9	Soil	Х	Х
CVR1TR1-1-T01N-SOL	SA	200-18417-10	Soil	Х	Х
CVR2TR1-3-T01N-SOL	SA	200-18417-11	Soil	Х	Х
CVR2TR1-2-T01N-SOL	SA	200-18417-12	Soil	Х	Х
CVR2TR1-1-T01N-SOL	SA	200-18417-13	Soil	Х	Х
CVR3TR1-3-T01N-SOL	SA	200-18417-14	Soil	Х	Х
CVR3TR1-2-T01N-SOL	SA	200-18417-15	Soil	Х	Х
CVR3TR1-2-T01D-SOL	FD	200-18417-16	Soil	Х	Х
CVR3TR1-1-T01N-SOL	SA	200-18417-17	Soil	X ^m	X ^m
CVR1TR3-2-T01N-SOL	SA	200-18417-18	Soil	Х	Х
CVR1TR3-3-T01N-SOL	SA	200-18417-19	Soil	Х	Х
CVR1TR3-1-T01N-SOL	SA	200-18417-20	Soil	Х	Х
CVR2TR3-3-T01N-SOL	SA	200-18417-21	Soil	Х	Х
Sample Type: FD – Field	Duplicate F	RB – Rinsate Blank	SA – Samp	ole	

Sample Type: FD – Field Duplicate X^m-Matrix Spike/ Matrix Spike Duplicate Metals – Copper, Molybdenum

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix quality control, laboratory performance, method quality control, field quality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- ____ Data are usable without qualification.
- X Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review	Criteria	Comments
Parameter	Met?	
Chain of Custody & Sample Receipt	Yes	The samples were received by TestAmerica Laboratories in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤ 6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The samples were analyzed within the required holding times.
Laboratory Blanks Method Blank Continuing Calibration Blank 	No	One method blank per method per analytical batch was reported. With the exception listed in Table 1, no target analytes were detected in any method blanks.
Matrix Quality Control	No	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
 Matrix Spike/ Matrix Spike Duplicate CVR3TR1-1-T01N-SOL (Sulfate) Matrix Spike 		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. With the exceptions listed in Table 2, the MS and/or MSD recoveries were within the laboratory acceptance limits.
CVR3TR1-1-Ť01N-SOL (Metals) • Laboratory Duplicate CVR3TR1-1-T01N-SOL (Sulfate, Metals)		When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.
		Laboratory Duplicates (LDs)
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):
		• When both the sample and duplicate values are >5x the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of \leq 35% (soil and sediment) or \leq 50% (plant tissue).
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tissue).
		With the exception listed in Table 3, the LD pairs met the evaluation criteria.
Metals Only	No	Post Digestion Spike (PDS) (Metals Only)
Post Digestion Spikes CVR3TR1-1-T01N-SOL (Metals) RB-01-T01N-SOL (Metals)		With the exceptions listed in Table 4, PDS recoveries were within the acceptance limits.
• Serial Dilution		Serial Dilution (SD) (Metals Only)
RB-01-T01N-SOL (Metals)		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. With the exceptions

Review	Review Criteria Comments			
Parameter	Met?			
		listed in Table 5, all percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.		
Field Quality Control	Yes	Trip Blank (VOCs Only)		
 Trip Blank N/A Field Duplicate 		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.		
CVR3TR1-2-T01N-SOL/		Field Duplicate (FD)		
• Field Blank N/A		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.		
Rinsate Blank RB-01-T01N-SOL RB-02-T01N-SOL (200-18471-2)		The following concentration – dependent criteria were used to evaluate field duplicates:		
		• If both results were >5xRL, then the RPD should be \leq 50% (solid and sediment) or \leq 30% (aqueous).		
		• If both results were ≤5xRL, then the absolute difference between the results should agree within ±4.0xRL		
		The field duplicate pairs met the evaluation criteria.		
		Field Blank (VOCs Only)		
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.		
		Rinsate Blank		
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Two rinsate blanks were collected and analyzed for the soil samples collected for this sampling event.		
		Target analytes were not reported as detected in the rinsate blank samples.		
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.		
Reporting limits met?	Yes	The metals analysis was performed at dilutions for several samples due to matrix effects which is demonstrated by the internal standard recoveries. However, no results were reported as non-detect with elevated reporting limits.		
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.		
	Labora	ttory Performance Review 280-18417-1		
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.		
Initial Calibration Verification/Continuing Calibration Verification	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.		
Laboratory Performance Laboratory Control Sample 	Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.		
Target Compound Identification	Yes	The analytes reported as identified met method criteria. Further action was not necessary.		

Review	Criteria	Comments				
Parameter	Met?					
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.				
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.				
> - Greater Than		\leq - Less Than or Equal to				
°C – Degrees Celsius		\pm - Plus or Minus				
% - Percent		%D – Percent Difference				
%Rs – Percent Recoveries		COC – Chain of Custody				
CCV - Continuing Calibration Verificatio	n	FD – Field Duplicate				
ICV – Initial Calibration Verification		LCS – Laboratory Control Sample				
LD – Laboratory Duplicate		MDL – Method Detection Limit				
MS – Matrix Spike		MSD – Matrix Spike Duplicate				
PDS – Post Digestion Spike		QAPP – Quality Assurance Project Plan				
RL – Reporting Limit		RPDs – Relative Percent Difference				
SD – Serial Dilution		VOCs – Volatile Organic Compounds				

Table 1: Method Rinsate Blank and Resultant Data Qualification

Resultant Data Quanteation								
Associated Samples	Analyte	Concentration	Data Qualification					
MB 200-61224/1-A CVR2TR3-3-T01N-SOL	Copper	1.07 mg/Kg	The associated copper result for sample CVR2TR3-3-T01N-SOL was reported at a concentration >5x the concentration of the blank contamination; therefore, data qualification was not necessary.					

> - Greater Than

mg/Kg – Milligrams per Kilogram

Table 2: MS Recovery Outliers and **Resultant Data Oualification**

Resultant Data Qualification							
Associated Sample	Analyte	%R (Limits)	Qualification				
CVR3TR1-1-T01N-SOL	Copper	56 (75-125)	As the potential bias was considered to be low and >35% of all MS percent recoveries were outside of acceptance				
	Molybdenum	59 (75-125)	limits, the results for all samples, with the exception of sample CVR3TR3-3-T01N-SOL (reported in data package 200-18717-2), were qualified as estimated (J MS-L).				
> - Greater Than J – Estimated	% - Percent L – Low Bias		%R – Percent Recovery MS – Matrix Spike				

Bold indicates a recovery outside of acceptance limits

MS – Matrix Spike

Resultant Data Qualification								
Analyte	Parent	LD	Criteria	Data Qualification				
	Result	Result	not Met					
	(mg/kg)	(mg/kg)						
Total Metals								
Molybdenum	4.6	2.05	RLs > 5X	As the RPD between the laboratory				
			RPD	duplicate pair results exceeded 35%,				
			\leq 35%	the associated molybdenum result				
			(76.6%)	for sample CVR3TR1-1-T01N-SOL				
				was qualified as estimated (J D-I).				
	Res Analyte Molybdenum	Resultant DataAnalyteParentResult(mg/kg)TotalMolybdenum4.6	Resultant Data QualificatioAnalyteParentLDResultResult(mg/kg)(mg/kg)Total WetalsMolybdenum4.62.05	Resultant Data QualificationAnalyteParentLDCriteriaResultResultResultnot Met(mg/kg)(mg/kg)(mg/kg) \mathbb{PD} StateMolybdenum4.62.05RLs > 5XMolybdenum4.62.05(RPD)StateState(76.6%)				

Table 3: Laboratory Duplicate Outliers and

>- Greater Than I - Indeterminate RL – Reporting Limit

% - Percent J - Estimated RPD - Relative Percent Difference D-Duplicate mg/Kg – Milligrams per Kilogram

Table 4: Post-Digestion Spike Outliers and **Resultant Data Qualification**

Associated Samples	Analyte	%R	Qualification
		(Limits)	
CVR3TR1-1-T01N-SOL	Copper	74	As the potential bias was
		(80-120)	considered to be low, the associated
	Molybdenum	74	parent result was qualified as
		(80-120)	estimated (J PDS-L).
%R – Percent Recovery	J – Estimated	L – Low Bi	as

%R – Percent Recovery PDS – Post Digestion Spike.

Bold indicates a recovery or RPD outside of acceptance limits

Associated Sample	Analyte	Parent	Serial	%D	Oualification
······································	5	Sample	Dilution	(Limits)	
		Result	Result	, ,	
		(mg/Kg)	(mg/Kg)		
CVR3TR1-1-T01N-SOL	Copper	12.7	15.43	22	The associated parent result
				(±10)	was qualified as estimated (J
	Molybdenum	4.6	5.69	25	SD-L). The bias is considered
				(±10)	to be low as the native sample
					concentration is less than the
					diluted result.
%D – Percent Difference	J – Estimat	ed		L – Low B	ias

Table 5: Serial Dilution Outliers and n. sultant Data Qualificati

%D – Percent Difference J – Estimated mg/Kg – Milligrams per Kilogram SD – Serial Dilution

Bold indicates a %D outside of acceptance limits

Chevron **Questa Tailing-Solar Facility Data Review Summary**

Sample Delivery Group: 200-18417-2 Sampling Date: September 11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 25, 2013 Date Completed: October 30, 2013

The table below summarizes the data package and sample identifications discussed in this data review.

				Ana	alyses
Field Identification	Sample Type	Lab Identification	Matrix	Metals (6010C)	Sulfate (9056A)
RB-02-T01N-SOL	RB	200-18417-2	Water	X	Х
CVR2TR3-2-T01N-SOL	SA	200-18417-22	Soil	Х	Х
CVR2TR3-1-T01D-SOL	FD	200-18417-23	Soil	Х	Х
CVR2TR3-1-T01N-SOL	SA	200-18417-24	Soil	Х	Х
CVR3TR3-3-T01N-SOL	SA	200-18417-25	Soil	X ^m	X ^m
CVR3TR3-2-T01N-SOL	SA	200-18417-26	Soil	Х	Х
CVR3TR3-1-T01N-SOL	SA	200-18417-27	Soil	Х	Х
CVR3TR2-3-T01N-SOL	SA	200-18417-28	Soil	Х	Х
CVR3TR2-2-T01N-SOL	SA	200-18417-29	Soil	Х	Х
CVR3TR2-1-T01N-SOL	SA	200-18417-30	Soil	Х	Х
CVR2TR2-3-T01N-SOL	SA	200-18417-31	Soil	Х	Х
Sample Type: FD – Field Du	plicate RB –	Rinsate Blank	SA – Sample		•

FD – Field Duplicate Sample Type: X^m-Matrix Spike/ Matrix Spike Duplicate

Metals - Copper, Molybdenum

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix guality control, laboratory performance, method guality control, field guality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- Data are usable without qualification.
- X Data are usable with qualification (noted below).

Some or all data are unusable for any purpose (detailed below).

SA – Sample

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review Parameter	Criteria Met?	Comments		
Chain of Custody & Sample Receipt	Yes	The samples were received by TestAmerica Laboratories in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤ 6 degrees Celsius (°C) temperature criterion.		
Holding Times	Yes	The samples were analyzed within the required holding times.		
Laboratory Blanks Method Blank Continuing Calibration Blank 	No	One method blank per method per analytical batch was reported. With the exception listed in Table 1, no target analytes were detected in any method blanks.		
Matrix Quality Control	No	Matrix Spike/Matrix Spike Duplicate (MS/MSD)		
Matrix Spike/ Matrix Spike Duplicate CVR3TR3-3-T01N-SOL (Sulfate) Matrix Spike CVR3TR3-3-T01N-SOL (Metals)		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. With the exceptions listed in Table 2, the MS and/or MSD recoveries were within the laboratory acceptance limits.		
Laboratory Duplicate CVR3TR3-3-T01N-SOL (Sulfate, Metals)		When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.		
		Laboratory Duplicates (LDs)		
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):		
		• When both the sample and duplicate values are >5x the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of \leq 35% (soil and sediment) or \leq 50% (plant tissue).		
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tisue).		
		The LD pairs met the evaluation criteria.		
Metals Only	No	Post Digestion Spike (PDS) (Metals Only)		
 Post Digestion Spikes CVR3TR3-3-T01N-SOL (Metals) Serial Dilution CUP3CE COL (Metals) 		With the exceptions listed in Table 4, PDS recoveries were within the acceptance limits.		
CVR31R3-3-101N-SOL (Metals)		Serial Dilution (SD) (Metals Only)		
		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. With the exceptions listed in Table 5, all percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.		
Field Quality Control	Yes	Trip Blank (VOCs Only)		
 Trip Blank N/A Field Duplicate CUPETPA 1 TELP COL / 		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.		
CVR2TR3-1-T01D-SOL / CVR2TR3-1-T01N-SOL		Field Duplicate (FD)		
• Field Blank N/A		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.		

Review Parameter	Criteria Met?	Comments			
 Rinsate Blank RB-02-T01N-SOL RB-01-T01N-SOL (200-18471-1) 		The following concentration – dependent criteria were used to evaluate field duplicates:			
		• If both results were >5xRL, then the RPD should be \leq 50% (solid and sediment) or \leq 30% (aqueous).			
		• If both results were ≤5xRL, then the absolute difference between the results should agree within ±4xRL			
		The field duplicate pairs met the evaluation criteria.			
		Field Blank (VOCs Only)			
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.			
		Rinsate Blank			
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Two rinsate blanks were collected and analyzed for the soil samples collected for this sampling event.			
		Target analytes were not reported as detected in the rinsate blank samples.			
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.			
Reporting limits met?	Yes	The metals analysis was performed at dilutions for several samples due to matrix effects which is demonstrated by the internal standard recoveries. However, no results were reported as non-detect with elevated reporting limits.			
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.			
	Labora	tory Performance Review 280-18417-1			
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.			
Initial Calibration Verification/Continuing Calibration Verification	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.			
Laboratory PerformanceLaboratory Control Sample	Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.			
Target Compound Identification	Yes	The analytes reported as identified met method criteria. Further action was not necessary.			
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.			
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.			
> - Greater Than	I	< - Less Than or Equal to			

°C – Degrees Celsius % - Percent

 \pm - Plus or Minus

%D - Percent Difference

%Rs – Percent Recoveries
CCV – Continuing Calibration Verification
ICV – Initial Calibration Verification
LD – Laboratory Duplicate
MS – Matrix Spike
PDS – Post Digestion Spike
RL – Reporting Limit
SD – Serial Dilution

COC – Chain of Custody FD – Field Duplicate LCS – Laboratory Control Sample MDL – Method Detection Limit MSD – Matrix Spike Duplicate QAPP – Quality Assurance Project Plan RPDs – Relative Percent Difference VOCs – Volatile Organic Compounds

Table 1: Method Rinsate Blank and Resultant Data Qualification

Associated Samples	Analyte	Concentration	Data Qualification
MB 200-61224/1-A	Copper	1.07 mg/Kg	The associated copper result for the
CVR2TR3-2-T01N-SOL			associated samples were reported at
CVR2TR3-1-T01D-SOL			concentrations $>5x$ the concentration of the
CVR2TR3-1-T01N-SOL			blank contamination; therefore, data
CVR3TR3-3-T01N-SOL			qualification was not necessary.
CVR3TR3-2-T01N-SOL			
CVR3TR2-3-T01N-SOL			
CVR3TR3-2-T01N-SOL			
CVR3TR2-1-T01N-SOL			
CVR2TR2-3-T01N-SOL			

> - Greater Than

mg/Kg – Milligrams per Kilogram

Table 2: MS Recovery Outliers and Resultant Data Qualification

Analyte	%R	Qualification			
	(Limits)				
	Gener	ral Chemistry			
Sulfate	49/51 (80-120)	As the potential bias was considered to be low and >35% of all MS percent recoveries were outside of acceptance limits, the results for all samples, with the exception of sample CVR3TR1-1-T01N-SOL (reported in data package 200-18417-1), were qualified as estimated (J MS-L).			
% - Pe L - Lo	ercent ow Bias	%R – Percent Recovery MS – Matrix Spike			
	Analyte Sulfate % - Pe L – Lc	Analyte%R (Limits)GenerSulfate49/ 51 (80-120)% - Percent L - Low Bias			

Bold indicates a recovery outside of acceptance limits

Table 3: Post-Digestion Spike Outliers and
Resultant Data Qualification

Associated Samples	Analyte	%R	Qualification
		(Limits)	
CVR3TR3-3-T01N-SOL	Copper	73	As the potential bias was considered to be low, the
		(80-120)	associated parent result was qualified as estimated (J
	Molybdenum	73	PDS-L).
	-	(80-120)	
%R – Percent Recovery	J – Estimated	1	L – Low Bias

%R – Percent Recovery PDS – Post Digestion Spike.

Bold indicates a recovery or RPD outside of acceptance limits

Associated Sample	Analyte	Parent Sample Bosult	Serial Dilution Begult	%D (Limits)	Qualification
		(mg/Kg)	(mg/Kg)		
CVR3TR3-3-T01N-SOL	Copper	14.2	17.51	23 (±10)	The associated parent sample result was qualified as estimated (J SD-L).
	Molybdenum	8.3	10.63	28 (±10)	The bias is considered to be low as the native sample concentration is less than the diluted result.
%D – Percent Difference mg/Kg – Milligrams per Kilogram	J – Estimat SD – Serial	ed Dilution		L-	- Low Bias

Table 4: Serial Dilution Outliers and Resultant Data Qualification

 %D - Percent Difference
 J - Estin

 mg/Kg - Milligrams per Kilogram
 SD - Se

 Bold indicates a %D outside of acceptance limits

Chevron Questa Tailing-Solar Facility Data Review Summary

Sample Delivery Group: 200-18424-1 Sampling Date: September 10-11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 26, 2013 Date Completed: October 30, 2103

The table below summarizes the data package and sample identifications discussed in this data review.

				Analyses
	Sample	T 1 T1 /*/* /*		Metals (6010C)
Field Identification	Type	200 18424 1	Tiggue	v
	SA	200-18424-1	Tissue	
CVRITRI-2-102N-PLIGAW	SA	200-18424-2	Tissue	X
CVR1TR1-3-T02N-PLTGAW	SA	200-18424-3	Tissue	Х
CVR1TR1-1-T03N-PLTFAW	SA	200-18424-4	Tissue	Х
CVR1TR1-2-T03N-PLTFAW	SA	200-18424-5	Tissue	Х
CVR1TR1-2-T03D-PLTFAW	FD	200-18424-6	Tissue	Х
CVR1TR1-3-T03N-PLTFAW	SA	200-18424-7	Tissue	Х
CVR1TR2-1-T02N-PLTGAW	SA	200-18424-8	Tissue	Х
CVR1TR2-2-T02N-PLTGAW	SA	200-18424-9	Tissue	Х
CVR1TR2-3-T02N-PLTGAW	SA	200-18424-10	Tissue	Х
CVR1TR2-1-T03N-PLTFAW	SA	200-18424-11	Tissue	Х
CVR1TR2-2-T03N-PLTFAW	SA	200-18424-12	Tissue	Х
CVR1TR2-3-T03N-PLTFAW	SA	200-18424-13	Tissue	Х
CVR1TR3-1-T02N-PLTGAW	SA	200-18424-14	Tissue	Х
CVR1TR3-2-T02N-PLTGAW	SA	200-18424-15	Tissue	Х
CVR1TR3-3-T02N-PLTGAW	SA	200-18424-16	Tissue	Х
CVR1TR3-1-T03N-PLTFAW	SA	200-18424-17	Tissue	Х
CVR1TR3-2-T03N-PLTFAW	SA	200-18424-18	Tissue	Х
CVR2TR2-2-T02N-PLTGAW	SA	200-18424-28	Tissue	X ^m
RB-03-T01N-PLT	RB	200-18424-39	Water	Х
EQBLK01	LEB	200-18424-74	Tissue	Х
Sample Type: FD – Field Duplicate	LEB – Labo	ratory Equipment Blank	RB – Rinsate Bla	nk

Sample Type: FD – Field Duplicate SA – Sample X^m-Matrix Spike/ Matrix Spike Duplicate

Metals - Molybdenum

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix quality control, laboratory performance, method quality control, field quality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- ____ Data are usable without qualification.
- X Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review	Criteria	Comments		
Parameter	Met?			
Chain of Custody & Sample Receipt	No	The samples were received by TestAmerica Laboratories in good conditi and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤6 degree Celsius (°C) temperature criterion.		
		The times listed on the sample container for samples CVR1TR1-2-T02N- PLTGAW and CVR1TR1-3-T03N-PLTFAW did not match the time listed on the COC. The laboratory logged the samples in per the times listed on the COC. Sample integrity was unlikely affected and further action was not required.		
Holding Times	Yes	The samples were analyzed within the required holding times.		
Laboratory BlanksMethod Blank	Yes	One method blank per method per analytical batch was reported. No target analytes were detected in any method blanks.		
 Continuing Calibration Blank Laboratory Equipment Blanks (EBs) EQBLK01 		The laboratory equipment blank results are used to assess contamination that may be introduced during the plant tissue homogenization process. The total molybdenum result was reported as non-detect in the laboratory equipment blank. Further action was not necessary.		
Matrix Quality Control	Yes	Matrix Spike/Matrix Spike Duplicate (MS/MSD)		
Matrix Spike/ Matrix Spike Duplicate None		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. The MS and/or MSD recoveries were within the laboratory acceptance limits.		
 Matrix Spike CVR2TR2-2-T02N-PLTGAW (Molybdenum) Laboratory Duplicate CVR2TR2-2-T02N-PLTGAW (Molybdenum) 		When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.		
(Norybacham)		Laboratory Duplicates (LDs)		
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):		
		• When both the sample and duplicate values are $>5x$ the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of $\le 35\%$ (soil and sediment) or $\le 50\%$ (plant tissue).		
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tissue).		

Review	Criteria	a Comments		
Parameter	Met?			
		The LD pairs met the evaluation criteria.		
Metals Only	Yes	Post Digestion Spike (PDS) (Metals Only)		
Post Digestion Spikes		The PDS recoveries were within the acceptance limits.		
CVR2TR2-2-T02N-PLTGAW (Molybdenum)		Serial Dilution (SD) (Metals Only)		
Serial Dilution CVR2TR2-2-T02N-PLTGAW (Molybdenum)		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. The percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.		
Field Quality Control	Yes	Trip Blank (VOCs Only)		
• Trip Blank N/A		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.		
• Field Duplicate		Field Duplicate (FD)		
CVRTTR1-2-T03N-PLTFAW / CVRTTR1-2-T03D-PLTFAW		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.		
 Field Blank N/A Pingata Plank 		The following concentration – dependent criteria were used to evaluate field duplicates:		
RB-03-T01N-PLT (200-18424-1) RB-04-T01N-PLT (200-18424-3)		• If both results were >5xRL, then the RPD should be ≤50% (solid and sediment) or ≤30% (aqueous).		
RB-05-T01N-PLT (200-18424-2) RB-06-T01N-PLT (200-18424-4)		• If both results were $\leq 5xRL$, then the absolute difference between the results should agree within $\pm 4xRL$		
, , , , , , , , , , , , , , , , , , , ,		The field duplicate pairs met the evaluation criteria.		
		Field Blank (VOCs Only)		
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.		
		Rinsate Blank		
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Four rinsate blanks were collected and analyzed for the plant tissue samples collected for this sampling event.		
		Target analytes were not reported as detected in the rinsate blank samples.		
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.		
Reporting limits met?	Yes	No results were reported as non-detect with elevated reporting limits.		
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.		
	Labora	ttory Performance Review 280-18417-1		
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.		
Initial Calibration Verification/Continuing Calibration Verification	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.		

	Comments		
Met?			
Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.		
Yes	The analytes reported as identified met method criteria. Further action was not necessary.		
Yes	Transcription errors were not found in this data package. Data qualification was not necessary.		
Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.		
	Met? Yes Yes Yes		

> - Greater Than°C – Degrees Celsius

% - Percent

%Rs-Percent Recoveries

CCV – Continuing Calibration Verification ICV – Initial Calibration Verification

LD – Laboratory Duplicate MS – Matrix Spike

PDS – Post Digestion Spike RL – Reporting Limit

SD – Serial Dilution

Less Than or Equal to \pm - Plus or Minus %D – Percent Difference COC – Chain of Custody FD – Field Duplicate LCS – Laboratory Control Sample MDL – Method Detection Limit MSD – Matrix Spike Duplicate QAPP – Quality Assurance Project Plan RPDs – Relative Percent Difference VOCs - Volatile Organic Compounds

Chevron Questa Tailing-Solar Facility Data Review Summary

Sample Delivery Group: 200-18424-2 Sampling Date: September 10-11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 26, 2013 Date Completed: October 30, 2013

The table below summarizes the data package and sample identifications discussed in this data review.

				Analyses
				Metals (6010C)
Field Identification	Sample Type	Lab Identification	Matrix	
CVR1TR3-3-T03N-PLTFAW	SA	200-18424-19	Tissue	Х
CVR2TR1-1-T02N-PLTGAW	SA	200-18424-20	Tissue	Х
CVR2TR1-2-T02N-PLTGAW	SA	200-18424-21	Tissue	Х
CVR2TR1-3-T02N-PLTGAW	SA	200-18424-22	Tissue	Х
CVR2TR1-1-T03N-PLTFAW	SA	200-18424-23	Tissue	Х
CVR2TR1-2-T03N-PLTFAW	SA	200-18424-24	Tissue	Х
CVR2TR1-3-T03N-PLTFAW	SA	200-18424-25	Tissue	Х
CVR2TR2-1-T02N-PLTGAW	SA	200-18424-26	Tissue	Х
CVR2TR2-1-T02D-PLTGAW	FD	200-18424-27	Tissue	Х
CVR2TR2-3-T02N-PLTGAW	SA	200-18424-29	Tissue	Х
CVR2TR2-1-T03N-PLTFAW	SA	200-18424-30	Tissue	Х
CVR2TR2-2-T03N-PLTFAW	SA	200-18424-31	Tissue	Х
CVR2TR2-3-T03N-PLTFAW	SA	200-18424-32	Tissue	Х
CVR2TR2-1-T04N-PLTSAW	SA	200-18424-33	Tissue	Х
CVR2TR2-2-T04N-PLTSAW	SA	200-18424-34	Tissue	Х
CVR2TR2-3-T04N-PLTSAW	SA	200-18424-35	Tissue	Х
CVR2TR3-1-T02N-PLTGAW	SA	200-18424-36	Tissue	Х
CVR2TR3-2-T02N-PLTGAW	SA	200-18424-37	Tissue	Х
RB-05-T01N-PLT	RB	200-18424-40	Water	Х
CVR3TR2-1-T04N-PLTSAW	SA	200-18424-50	Tissue	X ^m
EQBLK02	LEB	200-18424-75	Tissue	Х
Sample Type: FD – Field Duplicate	LEB – Labor	atory Equipment Blank	RB – Rinsate Bla	nk

Sample Type: FD – Field Duplicate SA – Sample X^m-Matrix Spike/ Matrix Spike Duplicate

Metals – Molybdenum

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix quality control, laboratory performance, method quality control, field quality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- ____ Data are usable without qualification.
- X Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review	Criteria	Comments
Parameter	Met?	
Chain of Custody & Sample Receipt	Yes	The samples were received by TestAmerica Laboratories in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤ 6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The samples were analyzed within the required holding times.
Laboratory Blanks Method Blank Continuing Calibration Blank 	Yes	One method blank per method per analytical batch was reported. No target analytes were detected in any method blanks. The laboratory equipment blank results are used to assess contamination
Laboratory Equipment Blanks (EBs) EQBLK02		that may be introduced during the plant tissue homogenization process. The total molybdenum result was reported as non-detect in the laboratory equipment blank. Further action was not necessary.
Matrix Quality Control	No	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
 Matrix Spike/ Matrix Spike Duplicate None Matrix Spike CVR3TR2-1-T04N-PLTSAW (Molybdenum) Laboratory Duplicate CVR3TR2-1-T04N-PLTSAW (Molybdenum) 		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. With the exceptions listed in Table 1, the MS and/or MSD recoveries were within the laboratory acceptance limits. When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.
(Molybdenum)		Laboratory Duplicates (LDs)
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):
		• When both the sample and duplicate values are $>5x$ the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of $\le 35\%$ (soil and sediment) or $\le 50\%$ (plant tissue).
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tissue).
		criteria.
Metals Only	No	Post Digestion Spike (PDS) (Metals Only)
Post Digestion Spikes		The PDS recoveries were within the acceptance limits.
CVR3TR2-1-T04N-PLTSAW		Serial Dilution (SD) (Metals Only)

Review Parameter	Criteria Met?	Comments
(Molybdenum) • Serial Dilution CVR3TR2-1-T04N-PLTSAW (Molybdenum)		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. With the exceptions listed in Table 3, all percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.
Field Quality Control	Yes	Trip Blank (VOCs Only)
• Trip Blank N/A		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.
Field Duplicate		Field Duplicate (FD)
CVR2TR2-1-T02N-PLTGAW / CVR2TR2-1-T02D-PLTGAW		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.
• Field Blank		The following concentration – dependent criteria were used to evaluate field duplicates:
Kinsate Blank RB-03-T01N-PLT (200-18424-1) PB 04 T01N PLT (200 18424 3)		• If both results were >5xRL, then the RPD should be \leq 50% (solid and sediment) or \leq 30% (aqueous).
RB-05-T01N-PLT (200-18424-2) RB-06-T01N-PLT (200-18424-4)		• If both results were ≤5xRL, then the absolute difference between the results should agree within ±4xRL
		The field duplicate pairs met the evaluation criteria.
		Field Blank (VOCs Only)
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.
		Rinsate Blank
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Four rinsate blanks were collected and analyzed for the plant tissue samples collected for this sampling event.
		Target analytes were not reported as detected in the rinsate blank samples.
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.
Reporting limits met?	Yes	No results were reported as non-detect with elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are
		100% complete.
	Labord	ttory Performance Review 280-18417-1
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.
Initial Calibration Verification/Continuing	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.
Calibration Verification		
Laboratory PerformanceLaboratory Control Sample	Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.
Target Compound Identification	Yes	The analytes reported as identified met method criteria. Further action was not necessary.
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.

Review	Criteria	Comments			
Parameter	Met?				
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data			
		package. Data qualification was not necessary.			
> - Greater Than		\leq - Less Than or Equal to			
°C – Degrees Celsius		\pm - Plus or Minus			
% - Percent		%D – Percent Difference			
%Rs – Percent Recoveries		COC – Chain of Custody			
CCV - Continuing Calibration Verification		FD – Field Duplicate			
ICV – Initial Calibration Verification		LCS – Laboratory Control Sample			
LD – Laboratory Duplicate		MDL – Method Detection Limit			
MS – Matrix Spike		MSD – Matrix Spike Duplicate			
PDS – Post Digestion Spike		QAPP – Quality Assurance Project Plan			
RL – Reporting Limit		RPDs – Relative Percent Difference			
SD – Serial Dilution		VOCs – Volatile Organic Compounds			

Table 1: MS Recovery Outliers and Resultant Data Oualification

Associated Sample	Analyte	%R	Qualification
		(Limits)	
CVR3TR2-1-T04N-PLTSAW	Molybdenum	123.5 (80-120)	As the potential bias was considered to be high the detected molybdenum result for sample CVR3TR3-3-T01N-SOL was qualified as estimated (J MS-L).
> - Greater Than J – Estimated	% - Percent L – Low Bia	s	%R – Percent Recovery MS – Matrix Spike

Bold indicates a recovery outside of acceptance limits

Table 2: Laboratory Duplicate Outliers and

Resultant Data Qualification					
Laboratory Duplicate	Analyte	Parent	LD	Criteria	Data Qualification
		Result	Result	not Met	
		(mg/kg)	(mg/kg)		
CVR3TR2-1-T04N-PLTSAW	Molybdenum	8.5	14.8	RPD	As the RPD between the laboratory
				\leq 35%	duplicate pair results exceeded 2x
					the RL, the associated
					molybdenum result for sample
					CVR3TR1-1-T01N-SOL was
					qualified as estimated (J D-I).
					1
>- Greater Than	% - Percent			D –Duplicat	e
I - Indeterminate	J - Estimated	1		mg/Kg – Mi	lligrams per Kilogram
RL – Reporting Limit	RPD – Relat	ive Percent Di	fference	-	

RL - Reporting Limit

Table 3: Serial Dilution Outliers and Resultant Data Oualification

Associated Sample	Analyte	Parent Sample Result	Serial Dilution Result	%D (Limits)	Qualification
		(mg/Kg)	(mg/Kg)		
CVR3TR2-1-T04N-PLTSAW	Molybdenum	4.6	5.69	25 (±10)	The associated sample results were qualified as estimated (J SD-L). The bias is considered to be low as the native sample concentration is less than the diluted result.

 %D – Percent Difference
 J – Estimated

 mg/Kg – Milligrams per Kilogram
 SD – Serial Dilution

 Bold indicates a %D outside of acceptance limits

L – Low Bias

Chevron Questa Tailing-Solar Facility Data Review Summary

Sample Delivery Group: 200-18424-3 Sampling Date: September 9-11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 26, 2013 Date Completed: October 30, 2013

The table below summarizes the data package and sample identifications discussed in this data review.

				Analyses
				Metals (6010C)
Field Identification	Sample Type	Lab Identification	Matrix	
CVR2TR3-3-T02N-PLTGAW	SA	200-18424-38	Tissue	Х
CVR3TR1-1-T04N-PLTSAW	SA	200-18424-41	Tissue	Х
CVR3TR1-2-T04N-PLTSAW	SA	200-18424-42	Tissue	Х
CVR3TR1-3-T04N-PLTSAW	SA	200-18424-43	Tissue	Х
CVR3TR2-1-T02N-PLTGAW	SA	200-18424-44	Tissue	Х
CVR3TR2-2-T02N-PLTGAW	SA	200-18424-45	Tissue	Х
CVR3TR2-3-T02N-PLTGAW	SA	200-18424-46	Tissue	Х
CVR3TR2-1-T03N-PLTFAW	SA	200-18424-47	Tissue	Х
CVR3TR2-2-T03N-PLTFAW	SA	200-18424-48	Tissue	Х
CVR3TR2-3-T03N-PLTFAW	SA	200-18424-49	Tissue	Х
CVR3TR2-3-T04N-PLTSAW	SA	200-18424-51	Tissue	Х
CVR3TR2-3-T04D-PLTSAW	FD	200-18424-52	Tissue	Х
CVR3TR3-1-T02N-PLTGAW	SA	200-18424-53	Tissue	Х
CVR3TR3-2-T02N-PLTGAW	SA	200-18424-54	Tissue	Х
CVR3TR3-3-T02N-PLTGAW	SA	200-18424-55	Tissue	Х
CVR3TR3-1-T03N-PLTFAW	SA	200-18424-56	Tissue	Х
CVR3TR3-2-T03N-PLTFAW	SA	200-18424-57	Tissue	Х
CVR3TR3-3-T03N-PLTFAW	SA	200-18424-58	Tissue	Х
RB-04-T01N-PLT	RB	200-18424-62	Water	Х
CVR2TR3-3-T03N-PLTFAW	SA	200-18424-67	Tissue	X ^m
EQBLK03	LEB	200-18424-76	Tissue	Х
Sample Type: FD – Field Duplicate	LEB – Labo	ratory Equipment Blank	RB – Rinsate Bla	nk

Sample Type: FD – Field Duplicate LEB – Laboratory Equipment Blank SA – Sample X^m-Matrix Spike/ Matrix Spike Duplicate

Metals – Molybdenum

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix quality control, laboratory performance, method quality control, field quality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- ____ Data are usable without qualification.
- X Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review	Criteria	Comments
Parameter	Met?	
Chain of Custody & Sample Receipt	Yes	The samples were received by TestAmerica Laboratories in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤ 6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The samples were analyzed within the required holding times.
Laboratory Blanks Method Blank Continuing Calibration Blank Laboratory Equipment Blanks 	Yes	One method blank per method per analytical batch was reported. No target analytes were detected in any method blanks. The laboratory equipment blank results are used to assess contamination that may be introduced during the plant tissue homogenization process. The
(EBs) EQBLK03		total molybdenum result was reported as non-detect in the laboratory equipment blank. Further action was not necessary.
Matrix Quality Control	No	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
 Matrix Spike/ Matrix Spike Duplicate None Matrix Spike CVR2TR3-3-T03N-PLTFAW (Molybdenum) Laboratory Duplicate CVR2TR3-3-T03N-PLTFAW (Molybdenum) 		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. With the exceptions listed in Table 1, the MS and/or MSD recoveries were within the laboratory acceptance limits. When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.
		Laboratory Duplicates (LDs)
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):
		• When both the sample and duplicate values are >5x the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of \leq 35% (soil and sediment) or \leq 50% (plant tissue).
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tissue).
		The LD pairs met the evaluation criteria.
Metals Only	No	Post Digestion Spike (PDS) (Metals Only)
• Post Digestion Spikes CVR2TR3-3-T03N-PLTFAW		The PDS recoveries were within the acceptance limits.
Review Parameter	Criteria Met?	Comments
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(Molybdenum)		Serial Dilution (SD) (Metals Only)
• Serial Dilution CVR2TR3-3-T03N-PLTFAW (Molybdenum)		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. The percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.
Field Quality Control	No	Trip Blank (VOCs Only)
• Trip Blank N/A		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.
• Field Duplicate CVR3TR2_3_T04N_PLTSAW /		Field Duplicate (FD)
CVR3TR2-3-T04D-PLTSAW		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.
N/A		The following concentration – dependent criteria were used to evaluate field duplicates:
 RIISAUE BIAIR RB-03-T01N-PLT (200-18424-1) RB-04-T01N-PLT (200-18424-3) 		• If both results were >5xRL, then the RPD should be \leq 50% (solid and sediment) or \leq 30% (aqueous).
RB-05-T01N-PLT (200-18424-2) RB-06-T01N-PLT (200-18424-4)		• If both results were ≤5xRL, then the absolute difference between the results should agree within ±4xRL
		With the exceptions listed in Table 2, the field duplicate pairs met the evaluation criteria.
		Field Blank (VOCs Only)
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.
		Rinsate Blank
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Four rinsate blanks were collected and analyzed for the plant tissue samples collected for this sampling event.
		Target analytes were not reported as detected in the rinsate blank samples.
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.
Reporting limits met?	Yes	No results were reported as non-detect with elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.
	Labora	tory Performance Review 280-18417-1
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.
Initial Calibration Verification/Continuing Calibration Verification	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.
Laboratory PerformanceLaboratory Control Sample	Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.
Target Compound Identification	Yes	The analytes reported as identified met method criteria. Further action was not necessary.

Review Parameter	Criteria Met?	Comments					
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.					
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.					
> - Greater Than	•	\leq - Less Than or Equal to					
°C – Degrees Celsius		\pm - Plus or Minus					
% - Percent		%D – Percent Difference					
%Rs-Percent Recoveries		COC – Chain of Custody					
CCV – Continuing Calibration Verit	fication	FD – Field Duplicate					
ICV – Initial Calibration Verification	n	LCS – Laboratory Control Sample					
LD – Laboratory Duplicate		MDL – Method Detection Limit					
MS – Matrix Spike	MSD – Matrix Spike Duplicate						
PDS – Post Digestion Spike		QAPP – Quality Assurance Project Plan					
RL – Reporting Limit		RPDs – Relative Percent Difference					
SD – Serial Dilution	VOCs – Volatile Organic Compounds						

Table 1: Post-Digestion Spike Outliers and **Resultant Data Qualification**

Associated Samples	Analyte	%R	Qualification
		(Limits)	
CVR2TR3-3-T03N-PLTFAW	Molybdenum	123.0 (80-120)	As the potential bias was considered to be high, the associated results were qualified as estimated (J PDS-H).
%R – Percent Recovery	J – Estimated	L	– Low Bias

%R - Percent Recovery PDS – Post Digestion Spike.

Bold indicates a recovery or RPD outside of acceptance limits

Resultant Data Qualification								
Field Duplicate	Analyte	Parent	FD	Criteria	Data Qualification			
		Result	Result	not Met				
		(mg/kg)	(mg/kg)					
CVR3TR2-3-T04N-PLTSAW/	Molybdenum	9.8	20.0	RPD	As the RPD between the field			
CVR3TR2-3-T04D-PLTSAW				$\leq 50\%$	duplicate pair results exceeded			
				(68%)	50%, the associated molybdenum			
					result for samples CVR3TR2-3-			
					T04N-PLTSAW and CVR3TR2-3-			
					T04D-PLTSAW was qualified as			
					estimated (J FD-I). As $>35\%$ of the			
					field duplicated did not meet the			
					criteria, qualification was extended			
					to all tissue molybdenum results.			
>- Greater Than	% - Percent	•	•	D – Duplicate				

Table 2: Field Duplicate Outliers and Resultant Data Oualification

I - Indeterminate RL – Reporting Limit

J - Estimated RPD – Relative Percent Difference

mg/Kg – Milligrams per Kilogram

Chevron **Questa Tailing-Solar Facility Data Review Summary**

Sample Delivery Group: 200-18424-4 Sampling Date: September 9-11, 2013 Data Reviewer: Joseph Capotrio Peer Reviewer: Sheri Fling

Date Completed: October 26, 2013 Date Completed: October 30, 2013

The table below summarizes the data package and sample identifications discussed in this data review.

				Analyses
Field Identification	Sample Type	Lab Identification	Matrix	Metals (6010C)
CVR3TR3-1-T04N-PLTSAW	SA	200-18424-59	Tissue	Х
CVR3TR3-2-T04N-PLTSAW	SA	200-18424-60	Tissue	Х
CVR3TR3-3-T04N-PLTSAW	SA	200-18424-61	Tissue	Х
RB-06-T01N-PLT	RB	200-18424-63	Water	Х
CVR2TR3-1-T03N-PLTFAW	SA	200-18424-64	Tissue	Х
CVR2TR3-2-T03N-PLTFAW	SA	200-18424-65	Tissue	Х
CVR2TR3-2-T03D-PLTFAW	FD	200-18424-66	Tissue	Х
CVR3TR1-1-T02N-PLTGAW	SA	200-18424-68	Tissue	Х
CVR3TR1-2-T02N-PLTGAW	SA	200-18424-69	Tissue	Х
CVR3TR1-3-T02N-PLTGAW	SA	200-18424-70	Tissue	Х
CVR3TR1-1-T03N-PLTFAW	SA	200-18424-71	Tissue	X ^m
CVR3TR1-2-T03N-PLTFAW	SA	200-18424-72	Tissue	Х
CVR3TR1-3-T03N-PLTFAW	SA	200-18424-73	Tissue	Х
EQBLK04	LEB	200-18424-77	Tissue	Х
Sample Type: FD – Field Duplicate	LEB – Lab	oratory Equipment Blank	RB – Rinsate Bla	nk

SA – Sample X^m-Matrix Spike/ Matrix Spike Duplicate Metals - Molybdenum

Laboratory Equipment Bian

isate

This report contains the final results of the data validation conducted for soil and plant tissue samples collected in September 2013 for the Questa Tailing-Solar Facility. The sample results were presented in 2 soil data packages and 4 plant tissue data packages. The data review was conducted in accordance with the Quality Assurance Project Plan to Chevron Mining Incorporated Questa Mine Sampling (URS, September 2013) and evaluation of laboratory criteria, as applicable.

All packages were reviewed for the following parameters: sample receipt, holding time, laboratory blanks, matrix quality control, laboratory performance, method quality control, field quality control, and reporting limits. In addition, data package 200-18417-1 was reviewed for initial calibration, initial calibration verification, continuing calibration verification, target compound identification, transcription errors, and recalculation.

General Overall Assessment:

- _____ Data are usable without qualification.
- X Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were addressed in the table below.

Review	Criteria	Comments
Parameter	Met?	
Chain of Custody & Sample Receipt	Yes	The samples were received by TestAmerica Laboratories in good condition and were consistent with the accompanying chain of custody (COC). The cooler temperatures upon receipt were within the recommended ≤ 6 degrees Celsius (°C) temperature criterion.
Holding Times	Yes	The samples were analyzed within the required holding times.
Laboratory Blanks Method Blank 	Yes	One method blank per method per analytical batch was reported. No target analytes were detected in any method blanks.
 Continuing Calibration Blank Laboratory Equipment Blanks (EBs) EQBLK04 		The laboratory equipment blank results are used to assess contamination that may be introduced during the plant tissue homogenization process. The total molybdenum result was reported as non-detect in the laboratory equipment blank. Further action was not necessary.
Matrix Quality Control	Yes	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
Matrix Spike/ Matrix Spike Duplicate None		MSs and/or MSDs were submitted at a project frequency of 1 per 20 samples. The MS and/or MSD recoveries were within the laboratory acceptance limits.
 Matrix Spike CVR3TR1-1-T03N-PLTFAW (Molybdenum) RB-06-T01N-PLT (Molybdenum) Laboratory Duplicate RB-06-T01N-PLT (Molybdenum) 		When MS and/or MSD issues accounted for less than 35% of the MS analyses conducted, applicable data qualification was limited to qualification of the parent sample. When >35% of the MS and/or MSD results did not meet the laboratory acceptance limits, qualification was extended to all associated samples.
		Laboratory Duplicates (LDs)
		The following concentration – dependent criteria were used to evaluate laboratory duplicates (LDs):
		• When both the sample and duplicate values are >5x the reporting limit (RL), acceptable sampling and analytical precision is indicated by a relative percent difference (RPD) between the results of \leq 35% (soil and sediment) or \leq 50% (plant tissue).
		• Where the result for one or both analytes of the LD pair is <5xRL, satisfactory precision is indicated if the absolute difference between the LD results is <2xRL (soil and sediment) or <4xRL (plant tissue).
		The LD pairs met the evaluation criteria.
Metals Only	Yes	Post Digestion Spike (PDS) (Metals Only)
Post Digestion Spikes		The PDS recoveries were within the acceptance limits.
CVR3TR1-1-T03N-PLTFAW (Molvbdenum)		Serial Dilution (SD) (Metals Only)
RB-06-T01N-PLT (Molybdenum) • Serial Dilution CVR3TR1-1-T03N-PLTFAW (Molybdenum) RB-06-T01N-PLT (Molybdenum)		Only the results that were greater than 50 times their respective MDLs were appropriate for comparing to the evaluation criterion. The percent differences (%Ds) between the original sample results and the results obtained from the sample-diluted 1:5 were $\leq 10\%$.

Review	Criteria	Comments
Parameter	Met?	
Field Quality Control	Yes	Trip Blank (VOCs Only)
• Trip Blank N/A		A trip blank was not submitted for this sampling event as volatile organic compounds (VOCs) were not analyzed. Further action was not necessary.
Field Duplicate		Field Duplicate (FD)
CVR2TR3-2-T03D-PLTFAW / CVR2TR3-2-T03D-PLTFAW		The frequency of field duplicates met the quality assurance project plan (QAPP) required 1 per 20 samples submitted.
• Field Blank		The following concentration – dependent criteria were used to evaluate field duplicates:
Kinsate Blank RB-03-T01N-PLT (200-18424-1) RB-04-T01N-PLT (200-18424-3)		• If both results were >5xRL, then the RPD should be \leq 50% (solid and sediment) or \leq 30% (aqueous).
RB-05-T01N-PLT (200-18424-2) RB-06-T01N-PLT (200-18424-4)		• If both results were ≤5xRL, then the absolute difference between the results should agree within ±4xRL
		With the exceptions listed in Table 1, the field duplicate pairs met the evaluation criteria.
		Field Blank (VOCs Only)
		A field blank was not submitted for this sampling event as VOCs were not analyzed. Further action was not necessary.
		Rinsate Blank
		The frequency of rinsate blank samples met the QAPP required 1 per 20 samples submitted. Four rinsate blanks were collected and analyzed for the plant tissue samples collected for this sampling event.
		Target analytes were not reported as detected in the rinsate blank samples.
		For aqueous blanks applied to soil/sediment samples, qualification is assigned based on comparison of the sample result to the equivalent concentration in the blank. The equivalent concentration is determined by assuming that all of the analyte present in the blank aliquot analyzed is present in the soil sample aliquot analyzed. Please note that the blank analysis may not involve the same weights, volumes, or dilution factors as the associated samples, and these factors were taken into consideration.
Reporting limits met?	Yes	No results were reported as non-detect with elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.
	Labora	ttory Performance Review 280-18417-1
Initial Calibration	Yes	The initial calibrations met method criteria. Further action was not necessary.
Initial Calibration Verification/Continuing Calibration Verification	Yes	Initial and continuing calibration verification (ICV/CCV) recoveries were within acceptance range.
Laboratory PerformanceLaboratory Control Sample	Yes	One laboratory control sample (LCS) per method per analytical batch was prepared and analyzed. All of the LCS recoveries were within the laboratory determined acceptance limits. These results are indicative of an acceptable level of accuracy with respect to the analytical method.
Target Compound Identification	Yes	The analytes reported as identified met method criteria. Further action was not necessary.
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.
Recalculation	Yes	Calculation or sample quantitation errors were not found in this data package. Data qualification was not necessary.
Caratan Than	ι	

°C – Degrees Celsius % - Percent %Rs-Percent Recoveries CCV - Continuing Calibration Verification ICV - Initial Calibration Verification LD – Laboratory Duplicate MS – Matrix Spike PDS – Post Digestion Spike RL – Reporting Limit SD – Serial Dilution

 \pm - Plus or Minus %D - Percent Difference COC - Chain of Custody FD - Field Duplicate LCS – Laboratory Control Sample MDL – Method Detection Limit MSD – Matrix Spike Duplicate QAPP – Quality Assurance Project Plan RPDs – Relative Percent Difference VOCs – Volatile Organic Compounds

Table 1: Field Duplicate Outliers and Resultant Data Qualification

Field Duplicate	Analyte	Parent	FD	Criteria	Data Qualification
		Result	Result	not Met	
CVR2TR3-2-T03N-PLTFAW/ CVR2TR3-2-T03D-PLTFAW	Molybdenum	35.8	61.7	RPD ≤ 50% (53%)	As the RPD between the field duplicate pair results exceeded 50%, the associated molybdenum result for samples CVR2TR3-2- T03N-PLTFAW and CVR2TR3-2- T03D-PLTFAW was qualified as estimated (J FD-I). As >35% of the field duplicated did not meet the criteria, qualification was extended to all tissue molybdenum results.
>- Greater Than I - Indeterminate	% - Percent J - Estimated	•		D –Duplicate mg/Kg – Millig	rams per Kilogram

RL - Reporting Limit

RPD - Relative Percent Difference

Client: URS Corporation

Client Sample ID:	RB-01-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-1RB Water					Date Sample Date Receive	d: 09/10/2013 1325 d: 09/13/2013 1000
		9056 Anions, ie	on Chromatog	raphy		1000	
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192076 N/A		Instrument ID:	IC2	Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 0136				Initial Weight/Volu Final Weight/Volu	me: 1 ml	L
Prep Date:	N/A				Injection Volume:	1 uL	1.0 15 1. 19
Analyte		Result (m	ng/L)	Qualifie	MDL	12.1	RL
Sulfate	to marta	1.00		U	0.027		1.00

Alps 13

Client: URS Corporation

Client Sample ID:	CVR2TR2-2	-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-3 Solid	3	% Moisture	12.2			Date Sample	d: 09/11/2013 0740
		far in two a		12.2	ente Bonna dana			
		9(056 Anions, ion Chi	romatograph	y-Soluble			
Analysis Method:	9056		Analysis Batch:	400-192077	1	nstrument ID:	IC2	
	N/A		Prep Batch:	N/A	5 - d. L	ab File ID:	Info 2	Pen-Metrohm_Ani
Dilution:	1.0		Leach Batch:	400-191957	1	nitial Weight/Volu	ime: 1 mi	El an El Tra
Analysis Date:	09/18/2013 08	05			F	inal Weight/Volu	me:	
Prep Date:	N/A				1111	njection Volume:	1 uL	1.9 1. 1. 1. 1.
Leach Date:	09/17/2013 14	29						
Analyte	DryW	t Corrected: Y	Result (mg	/Kg)	Qualifier	MDL		RL
Sulfate	J Mr.L		182			3.31		22.8

10/2-16

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-4 Solid	% Moisture	e: 14.3			Date Sampled: 09/11/2013 0745 Date Received: 09/13/2013 1000
		9056 Anions, ion C	hromatograph	y-Soluble		
Analysis Method:	9056 . N/A	Analysis Batch: Prep Batch:	400-192077 N/A	•	Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 0828	Leach Batch:	400-191957		Initial Weight/Volur Final Weight/Volun	ne: 1 mL
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: `	Y Result (n	ng/Kg)	Qualifie	r MDL	RL
Sulfate	JMEL	29.2			3.33	22.9
						Jen 1
						-/3

Client: URS Corporation

Client Sample ID:	CVR11R2-3-101N-SOL					
Lab Sample ID: Client Matrix:	200-18417-5 Solid	% Moisture	e: 6.2		Da Da	te Sampled: 09/10/2013 1630 ate Received: 09/13/2013 1000
		9056 Anions, ion C	hromatograph	y-Soluble		
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192077 N/A		Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 0850	Leach Batch:	400-191957		Initial Weight/Volume	: 1 mL
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: 1	Result (m	ng/Kg)	Qualifier	MDL	RL
Sulfate	J Mr-L	240			3.10	21.3
						12,35
						75/3

Client: URS Corporation

Client Sample ID:	CVR1TR2-2-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-6 Solid	% Moisture:	4.8			Date Sampled: 09/10/2013 1625 Date Received: 09/13/2013 1000
		9056 Anions, ion Ch	romatograph	y-Soluble		And
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192077 N/A		Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 0913	Leach Batch:	400-191957		Initial Weight/Volu Final Weight/Volur	me: 1 mL ne:
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: \	r Result (mg	g/Kg)	Qualifie	r MDL	RL
Sulfate	J Mr-L	155			3.03	20.8

10/12

Client: URS Corporation

Cilent Sample ID:	CVR1TR2-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-7 Solid	% Moisture	: 6.4			Date Sampled: 09/10/2013 1600 Date Received: 09/13/2013 1000
		9056 Anions, ion Ci	nromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077	1	nstrument ID:	IC2
	N/A	Prep Batch:	N/A	L	ab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191957	l.	nitial Weight/Volur	me: 1 mL
Analysis Date:	09/18/2013 1022			F	inal Weight/Volun	ne:
Prep Date:	N/A			1	njection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: \	Y Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	J MALL	237			3.06	21.0

De 10/23/13

Client: URS Corporation

Job Number: 200-18417-1 Sdg Number: 200-18417-1

Client Sample ID:	CVR1TR1-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-8 Solid	% Moisture	6.2			Date Sampled: 09/10/2013 1440
	and the second	9056 Anions, Ion Ch	romatograph	y-Soluble		
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192077 N/A		Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 1045	Leach Batch:	400-191957		Initial Weight/Volur Final Weight/Volun	ne: 1 mL ne:
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: Y	' Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	s mae	448			3.04	20.9

A 12/25/13

TestAmerica Burlington

Client: URS Corporation

Client Sample ID:	CVR1TR1-2-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-9 Solid	% Moisture:	4.1			Date Sampled: 09/10/2013 1445 Date Received: 09/13/2013 1000
and the second		9056 Anions, Ion Cł	romatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077		nstrument ID:	IC2
	N/A	Prep Batch:	N/A	v. e	ab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191957	1	nitial Weight/Volu	me: 1 mL
Analysis Date:	09/18/2013 1108			F	inal Weight/Volur	ne:
Prep Date:	N/A			I	njection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: Y	' Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	JMFL	143			3.02	20.8

At 10/25/13

Client: URS Corporation

Job Number: 200-18417-1 Sdg Number: 200-18417-1

Client Sample ID:	CVR1TR1-1-T01N-SOL					
Lab Sample ID:	200-18417-10					Date Sampled: 09/10/2013 1410
Client Matrix:	Solid	% Moisture:	7.4			Date Received: 09/13/2013 1000
		9056 Anions, ion Ct	romatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192233		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	2.0	Leach Batch:	400-191957		Initial Weight/Volu	me: 1 mL
Analysis Date:	09/19/2013 2136				Final Weight/Volur	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: Y	r Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	5 MS-L	1110			6.21	42.7

UK x0/25/13

TestAmerica Burlington

Client: URS Corporation

Cilent Sample ID:	CVR2TR1-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-11 Solid	% Moisture	2.5			Date Sampled: 09/10/2013 1245 Date Received: 09/13/2013 1000
		9056 Anions, ion Cl	romatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	1.0	Leach Batch:	400-191957		Initial Weight/Volur	ne: 1 mL
Analysis Date:	09/18/2013 1153				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: \	r Result (m	g/Kg)	Qualifie	MDL	RL
Sulfate	J MS-2	50.1			3.00	20.6

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Client: URS Corporation

Client Sample ID:	CVR2TR1-2-T01N-SOL					
Lab Sample ID:	200-18417-12				1 m ² - 9	Date Sampled: 09/10/2013 1225
Client Matrix:	Solid	% Moisture	3.3			Date Received: 09/13/2013 1000
		9056 Anions, ion Cl	romatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	1.0	Leach Batch:	400-191957		Initial Weight/Volum	ne: 1 mL
Analysis Date:	09/18/2013 1216				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected:	Y Result (m	g/Kg)	Qualifier	· MDL	RL
Sulfate	5 M5-L	33.4			3.00	20.6

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Client: URS Corporation

Client Sample ID:	CVR2TR1-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-13 Solid	% Moisture	6.8			Date Sampled: 09/10/2013 1200 Date Received: 09/13/2013 1000
		9056 Anions, ion Cl	romatograph	y-Soluble)	
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192077 N/A		Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm Ani
Dilution: Analysis Date:	1.0 09/18/2013 1239	Leach Batch:	400-191957		Initial Weight/Volu Final Weight/Volu	me: 1 mL me:
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: Y	Result (m	a/Ka)	Qualifie	r MDL	RI
Sulfate	5 Mr-L	84.8			3.13	21.5

Alia

Client: URS Corporation

Client Sample ID:	CVR3TR1-3-T01N-SOL					
Lab Sample ID:	200-18417-14					Date Sampled: 09/10/2013 1115
Client Matrix:	Solid	% Moisture	4.4			Date Received: 09/13/2013 1000
		9056 Anions, ion Cl	romatograph	y-Solubie		
Analysis Method:	9056	Analysis Batch:	400-192077		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	1.0	Leach Batch:	400-191957		Initial Weight/Volur	me: 1 mL
Analysis Date:	09/18/2013 1302				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	J MS-L	919			3.02	20.8

Ad In

Client: URS Corporation

Client Sample ID:	CVR31R1-2-101N-SOL					
Lab Sample ID: Client Matrix:	200-18417-15 Solid	% Moisture:	4.1			Date Sampled: 09/10/2013 1055 Date Received: 09/13/2013 1000
		9056 Anions, Ion Ch	romatograph	y-Soluble		化 超过现代表
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192077 N/A		Instrument ID: Lab File ID:	IC2 Info 2 Pen-Metrohm An
Dilution: Analysis Date:	1.0 09/18/2013 1325	Leach Batch:	400-191957		Initial Weight/Volu Final Weight/Volu	me: 1 mL me:
Prep Date: Leach Date:	N/A 09/17/2013 1429				Injection Volume:	1 uL
Analyte	DryWt Corrected: \	Result (mg	g/Kg)	Qualifie	r MDL	RL
Sulfate	J MFL	30.1			3.03	20.9

Al white

Client: URS Corporation

Olland Domaila ID.

Client Sample ID:	CVR31R1-2-101D-SOL					
Lab Sample ID: Client Matrix:	200-18417-16 Solid	% Moisture	: 4.3			Date Sampled: 09/10/2013 1055 Date Received: 09/13/2013 1000
		9056 Anions, Ion Cl	hromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077	1	Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191957		Initial Weight/Volu	me: 1 mL
Analysis Date:	09/18/2013 1347				Final Weight/Volur	ne:
Prep Date:	N/A			101	Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: \	r Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	JMEL	30.7			3.03	20.8

achslis, o.hslis

Client: URS Corporation

Client Sample ID:	CVR3TR1-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-17 Solid	% Moisture	: 4.2			Date Sampled: 09/09/2013 1620 Date Received: 09/13/2013 1000
		9056 Anions, ion C	hromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192077		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	1.0	Leach Batch:	400-191957		Initial Weight/Volu	me: 1 mL
Analysis Date:	09/18/2013 0742				Final Weight/Volur	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1429					
Analyte	DryWt Corrected: \	r Result (m	ng/Kg)	Qualifie	MDL	RL
Sulfate		229			3.03	20.8

Achstm

Client: URS Corporation

Client Sample ID:	CVR1TR3-2-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-18 Solid	% Moisture	: 8.1			Date Sampled: 09/11/2013 1440 Date Received: 09/13/2013 1000
		9056 Anions, Ion Ci	hromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2 Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volur	me: 1 mL
Analysis Date:	09/18/2013 1713				Final Weight/Volun	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: Y	r Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	5 592, MS-L	4.87		J	3.14	21.6

M hs/n

Client: URS Corporation

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Client Sample ID:	CVR11R3-3-101N-SOL					
Lab Sample ID: Client Matrix:	200-18417-19 Solid	% Moisture	7.3		C C	Date Sampled: 09/11/2013 1455 Date Received: 09/13/2013 1000
		9056 Anions, Ion Cl	romatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2 Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volum	ie: 1 mL
Analysis Date:	09/18/2013 1736				Final Weight/Volum	e:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	5 MS-C	155			3.11	21.4

An polostr

Client: URS Corporation

Client Sample ID:	CVR1TR3-1-T01N-SOL					
Lab Sample ID:	200-18417-20					Date Sampled: 09/11/2013 1410
Client Matrix:	Solid	% Moisture	6.9			Date Received: 09/13/2013 1000
		9056 Anions, ion Ch	romatograph	y-Soluble	9	
Analysis Method:	9056	Analysis Batch:	400-192078		instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volur	me: 1 mL
Analysis Date:	09/18/2013 1759				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: \	r Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	5 ms, sal-L	13.5		J	3.13	21.5

Alpelia

Client: URS Corporation

Client Sample ID:	CVR2TR3-3-T01N-SOL						
Lab Sample ID:	200-18417-21				Date Sampled: 09/11/2013 13		
Client Matrix:	Solid	% Moisture	: 15.2			Date Received: 09/13/2013 1000	
		9056 Anions, ion C	hromatograph	y-Soluble	9		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2	
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani	
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volu	me: 1 mL	
Analysis Date:	09/18/2013 1822				Final Weight/Volur	me:	
Prep Date:	N/A				Injection Volume:	1 uL	
Leach Date:	09/17/2013 1445						
Analyte	DryWt Corrected: Y	r Result (m	g/Kg)	Qualifie	r MDL	RL	
Sulfate	J SQL-I	380			3.43	23.6	

John In

Client: URS Corporation

Client Sample ID:	RB-01-T01N-SOL						
ab Sample ID: 200-18417-1RB Dient Matrix: Water					Date Sampled: 09/10/2013 132 Date Received: 09/13/2013 100		
		6010C	Metals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470	In	strument ID:	METICP7	
Prep Method:	3010A	Prep Batch:	200-61300	La	ab File ID:	091913-01 6010C.ttx	
Dilution:	1.0			In	itial Weight/Volume:	100.00 mL	
Analysis Date:	09/20/2013 0951			Fi	inal Weight/Volume:	100.00 mL	
Prep Date:	09/17/2013 1730				a set and		
Analyte		Result (u	g/L)	Qualifier	MDL	RL	
Copper		25.0	and a state	U	4.3	25.0	
Molybdenum		10.0		U	0.55	10.0	

Alpein

Client: URS Corporation

Client Sample ID:	CVR2TR2-2-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-3 Solid	% Moisture: 12.2			C C	Date Sampled: 09/11/2013 0740 Date Received: 09/13/2013 1000
		6010C I	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61317		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223		Lab File ID:	091713-04.ttx
Dilution:	1.0				Initial Weight/Volum	e: 1.67 g
Analysis Date:	09/18/2013 0139				Final Weight/Volum	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: \	r Result (m	g/Kg)	Qualifier	MDL	RL
Copper	J MS-L	10.6	W. T. H.		0.15	1.7
Molybdenum	LLL	0.79			0.075	0.68

Alex In

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-4 Solid	% Moisture	e: 14.3		Date Date	e Sampled: 09/11/2013 0745 e Received: 09/13/2013 1000
		6010C	Metals (ICP)	5-10	57 N 195	
Analysis Method:	6010C	Analysis Batch:	200-61317	Ins	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	La	b File ID:	091713-04.ttx
Dilution:	1.0			Init	tial Weight/Volume:	1.90 g
Analysis Date:	09/18/2013 0145			Fin	al Weight/Volume:	100.00 mL
Prep Date:	09/16/2013 1730				A DIT TON .	
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL
Copper	5 75-6	11.4			0.14	1.5
Molybdenum		1.9			0.068	0.61

April 13

Client: URS Corporation

Job Number: 200-18417-1 Sdg Number: 200-18417-1

Client Sample ID:	CVR1TR2-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-5 Solid	% Moisture	e: 6.2			Date Sampled: 09/10/2013 1630 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223		Lab File ID:	091913-01 6010C.ttx
Dilution:	2.0				Initial Weight/Volu	ıme: 1.93 g
Analysis Date:	09/19/2013 2346				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifie	r MDL	RL
Copper	5 ME- C	11.5			0.24	2.8
Molybdenum	J Balyms-L	0.64		J	0.12	1.1

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TestAmerica Burlington

Client: URS Corporation

Client Sample ID:	CVR1TR2-2-T01N-SOL					
Lab Sample ID:	200-18417-6				C	Date Sampled: 09/10/2013 1625
Client Matrix:	Solid	% Moisture	: 4.8			Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)	AN VIX		
Analysis Method:	6010C	Analysis Batch:	200-61317	Instru	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab f	File ID:	091713-04.ttx
Dilution:	1.0			Initia	Weight/Volum	e: 1.62 g
Analysis Date:	09/18/2013 0157			Final	Weight/Volum	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	J MG-C	11.5			0.14	1.6
Analysis Method:	6010C	Analysis Batch:	200-61470	Instru	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab i	File ID:	091913-01 6010C.ttx
Dilution:	2.0			Initia	Weight/Volum	ie: 1.62 g
Analysis Date:	09/19/2013 2353			Final	Weight/Volum	e: 100.00 mL
Prep Date:	09/16/2013 1730		a			
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J SQL, MS-L	1.1		J	0.14	1.3

AL Jups/12

Client: URS Corporation

Lab Sample ID: Client Matrix:	200-18417-7 Solid	% Moisture	: 6.4		[[Date Sampled: 09/10/2013 1600 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/18/2013 0203 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61223	Instn Lab I Initia Final	ument ID: File ID: I Weight/Volum Weight/Volum	METICP7 091713-04.ttx ne: 1.83 g ne: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Copper	J MS-L	9.3			0.13	1.5
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 2.0 09/20/2013 0000 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61470 200-61223	Instru Lab I Initia Final	ument ID: File ID: I Weight/Volum I Weight/Volum	METICP7 091913-01 6010C.ttx ne: 1.83 g ne: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Molybdenum	J 596, MS-L	0.88		J	0.13	1.2

Al 10/2x/13

Client: URS Corporation

Client Sample ID:	CVR1TR1-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-8 Solid	% Moisture:	6.2			Date Sampled: 09/10/2013 1440 Date Received: 09/13/2013 1000
-		80100 1				
		6010C N				
Analysis Method:	6010C	Analysis Batch:	200-61317	Instr	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab	File ID:	091713-04.ttx
Dilution:	1.0			Initia	al Weight/Volun	ne: 1.91 g
Analysis Date:	09/18/2013 0208			Fina	I Weight/Volum	ne: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	JMEL	13.5		1.0	0.12	1.4
Analysis Method:	6010C	Analysis Batch:	200-61470	Instr	rument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab	File ID:	091913-01 6010C.ttx
Dilution:	2.0			Initia	al Weight/Volun	ne: 1.91 g
Analysis Date:	09/20/2013 0006			Fina	Weight/Volum	ne: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 MS-L	3.9		1.00	0.12	1.1

a kheln

Client: URS Corporation

Client Sample ID:	CVR1TR1-2-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-9 Solid	% Moisture	e: 4.1		Date Sampled: 09/10/2013 Date Received: 09/13/2013		
		6010C	Metals (ICP)				
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/18/2013 0214 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61223	in Li Fi	nstrument ID: ab File ID: nitial Weight/Volum inal Weight/Volum	METICP7 091713-04.ttx e: 1.58 g e: 100.00 mL	
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL	
Copper Molybdenum	JMALL	12.2 1.4		$[\cdot]_{\mathcal{H}}$	0.15 0.073	1.7 0.66	

Al har The

Client: URS Corporation

Client Sample ID:	CVR11R1-1-101N-SOL					
Lab Sample ID: Client Matrix:	200-18417-10 Solid	% Moisture	e: 7.4	ב נ	Date Sampled: 09/10/2013 1410 Date Received: 09/13/2013 1000	
		6010C	Metals (ICP)	78 J. 12 F.		
Analysis Method:	6010C	Analysis Batch:	200-61317	Instru	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab File ID:		091713-04.ttx
Dilution:	1.0			Initial	Weight/Volum	ne: 1.93 g
Analysis Date:	09/18/2013 0220			Final	Weight/Volum	ne: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL
Copper	JMEL	13.1		1	0.12	1.4
Analysis Method:	6010C	Analysis Batch:	200-61470	Instru	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab File ID:		091913-01 6010C.ttx
Dilution:	2.0			Initial	Weight/Volum	ne: 1.93 a
Analysis Date:	09/20/2013 0033			Final	Weight/Volum	ne: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg/Kg)		Qualifier	MDL	RL
Molybdenum	5 MS-L	4.5			0.12	1.1

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Client: URS Corporation

Client Sample ID:	CVR2TR1-3-T01N-SOL					
Lab Sample ID:	200-18417-11					Date Sampled: 09/10/2013 124
Client Matrix:	Solid	% Moisture: 2.5		Date Received: 09/13/2013 10		
		6010C I	Metals (ICP)		Mines for m	
Analysis Method:	6010C	Analysis Batch:	200-61317	Ir	nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	L	ab File ID:	091713-04.ttx
Dilution:	1.0			li	nitial Weight/Volun	ne: 1.47 g
Analysis Date:	09/18/2013 0226			F	inal Weight/Volum	ne: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Copper	JMEL	25.3	178.000		0.15	1.7
Molybdenum		13.5			0.077	0.70

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Client: URS Corporation

Client Sample ID:	CVR2TR1-2-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-12 Solid	% Moisture:	3.3		1	Date Sampled: 09/10/2013 1225 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)		-36	
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/18/2013 0249 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61223	Instru Lab F Initial Final ¹	ment ID: ile ID: Weight/Volun Weight/Volum	METICP7 091713-04.ttx ne: 1.89 g ne: 100.00 mL
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Copper	5 MS-2	19.5			0.12	1.4
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 2.0 09/20/2013 0040 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61470 200-61223	Instru Lab F Initial Final V	ment ID: ile ID: Weight/Volun Weight/Volum	METICP7 091913-01 6010C.ttx ne: 1.89 g ne: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	JMEL	9.4		Charles M	0.12	1.1

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Client: URS Corporation

Client Sample ID:	CVR2TR1-1-T01N-SOL					
Lab Sample ID:	200-18417-13					Date Sampled: 09/10/2013 1200
Client Matrix:	Solid	% Moisture	6.8			Date Received: 09/13/2013 1000
distantia ()		6010C N	fetals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223		Lab File ID:	091913-01 6010C.ttx
Dilution:	2.0				Initial Weight/Volu	me: 1.81 g
Analysis Date:	09/20/2013 0047				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	r MDL	RL
Copper	5 MS-2	15.8			0.26	3.0
Molybdenum	J MS-L	3.7			0.13	1.2

Alps In

Client: URS Corporation

Client Sample ID:	CVR3TR1-3-T01N-SOL							
Lab Sample ID: Client Matrix:	200-18417-14 Solid	% Moieturo: 4.4			Date Sampled: 09/10/2013 111			
-		6010C	Metals (ICP)	_				
	00100				1	he see that the second		
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7		
Prep Method:	3050B	Prep Batch:	200-61223		Lab File ID:	091913-01 6010C.ttx		
Dilution:	2.0				Initial Weight/Volur	ne: 1.83 g		
Analysis Date:	09/20/2013 0054				Final Weight/Volun	ne: 100.00 mL		
Prep Date:	09/16/2013 1730							
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL		
Copper	JMRZ	11.8			0.25	2.9		
Molybdenum	5 SALIMS-L	0.86		J	0.13	1.1		

M hs/18

Client: URS Corporation

Analytical Data

Client Sample ID:	CVR3TR1-2-T01N-SOL					
Lab Sample ID:	200-18417-15					Date Sampled: 09/10/2013 1055
Client Matrix:	Solid	% Moisture	: 4.1			Date Received: 09/13/2013 1000
		6010C I	fietals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61317	Instru	ment ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab F	ile ID:	091713-04.ttx
Dilution:	1.0			Initial	Weight/Volum	e: 1.92 g
Analysis Date:	09/18/2013 0307			Final	Weight/Volum	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	J MS-C	12.7			0.12	1.4
Analysis Method:	6010C	Analysis Batch:	200-61470	Instru	ment ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab F	ile ID:	091913-01 6010C.ttx
Dilution:	2.0			Initial	Weight/Volum	e: 1.92 g
Analysis Date:	09/20/2013 0101			Final	Weight/Volum	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J MS-C	2.3			0.12	1.1

Alpela

Client: URS Corporation

Client Sample ID:	CVR3TR1-2-T01D-SOL			1		
Lab Sample ID:	200-18417-16				D	ate Sampled: 09/10/2013 1055
	Solid	% Moisture	: 4.3		L. L.	Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)		5.65	
Analysis Method:	6010C	Analysis Batch:	200-61317	Inst	rument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61223	Lab	File ID:	091713-04.ttx
Dilution:	1.0			Initia	al Weight/Volum	e: 1.66 g
Analysis Date:	09/18/2013 0313			Fina	al Weight/Volume	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	5 MS-2	13.5		19 19 19 19 19 19 19 19 19 19 19 19 19 1	0.14	1.6
Molybdenum	111	1.8			0.069	0.63

Al pelos

Client: URS Corporation

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Olla - 1 O amanda ID.

Client Sample ID:	CVR31R1-1-TUIN-SUL						
Lab Sample ID: Client Matrix:	200-18417-17 Solid	% Moisture	e: 4.2		C C	Date Sampled: 09/09/2013 16; Date Received: 09/13/2013 10;	20 20
A		6010C	Metals (ICP)		Service In		
Analysis Method:	6010C	Analysis Batch:	200-61317	In	strument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61223	La	ab File ID:	091713-04.ttx	
Dilution:	1.0			In	itial Weight/Volum	ne: 1.57 g	
Analysis Date:	09/18/2013 0319			Fi	inal Weight/Volum	e: 100.00 mL	
Prep Date:	0 9 /16/2013 1730						
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL	
Copper J M5	,905,50-L	12.7			0.15	1.7	-
Molybdenum 3	45, D, PO5, SD-L	4.6			0.073	0.66	

M/10/13/13

Client: URS Corporation

Job Number: 200-18417-1 Sdg Number: 200-18417-1

CVR1TR3-2-T01N-SOL					
200-18417-18 Solid	% Moisture	e: 8.1		C I	Date Sampled: 09/11/2013 1440 Date Received: 09/13/2013 1000
	6010C	Metals (ICP)		1.1.1.1.1.1	
6010C	Analysis Batch:	200-61317	Ir	strument ID:	METICP7
3050B	Prep Batch:	200-61223	L	ab File ID:	091713-04.ttx
1.0			Ir	nitial Weight/Volum	ne: 1.71 g
09/18/2013 0406			F	inal Weight/Volum	e: 100.00 mL
09/16/2013 1730					
DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL
5 mr-c	19.4			0.14	1.6
5 MS-L	4.4			0.070	0.64
	CVR1TR3-2-T01N-SOL 200-18417-18 Solid 6010C 3050B 1.0 09/18/2013 0406 09/16/2013 1730 DryWt Corrected: Y 5 m<2 5 m<2	CVR1TR3-2-T01N-SOL 200-18417-18 % Moisture Solid % Moisture 6010C Analysis Batch: 3050B Prep Batch: 1.0 09/18/2013 0406 09/16/2013 1730 DryWt Corrected: Y T MCC 19.4 T M5-L 4.4	CVR1TR3-2-T01N-SOL 200-18417-18 % Moisture: 8.1 Solid % Moisture: 8.1 6010C Metals (ICP) 6010C Analysis Batch: 200-61317 3050B Prep Batch: 200-61223 1.0 09/18/2013 0406 09/16/2013 1730 DryWt Corrected: Y Result (mg/Kg) T 5 M5-L	CVR1TR3-2-T01N-SOL 200-18417-18 % Moisture: 8.1 Solid % Moisture: 8.1 6010C Metals (ICP) 6010C Analysis Batch: 200-61317 In 3050B Prep Batch: 200-61223 L 1.0 In In In 09/18/2013 0406 F F 09/16/2013 1730 In In DryWt Corrected: Y Result (mg/Kg) Qualifier 5 M5-L 4.4 In	CVR1TR3-2-T01N-SOL 200-18417-18 % Moisture: 8.1 Solid % Moisture: 8.1 6010C Metals (ICP) 6010C Analysis Batch: 200-61317 Instrument ID: Lab File ID: Initial Weight/Volum 3050B Prep Batch: 200-61223 Lab File ID: Initial Weight/Volum 1.0 Initial Weight/Volum Initial Weight/Volum 09/18/2013 0406 Final Weight/Volum Final Weight/Volum 09/16/2013 1730 DryWt Corrected: Y Result (mg/Kg) Qualifier MDL 5 MS-L 19.4 0.14 0.070

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TestAmerica Burlington

Client: URS Corporation

Client Sample ID:	CVR1	TR3-3-T01N-SOL						
Lab Sample ID: Client Matrix:	200-1 Solid	8417-19	% Moisture: 7.3			Date Sampled: 09 Date Received: 09		
			6010C I	Wetals (ICP)		-18-11-1		
Analysis Method:	6010C		Analysis Batch:	200-61317		nstrument ID:	METICP7	
Prep Method:	3050B		Prep Batch:	200-61223	1	Lab File ID:	091713-04.ttx	
Dilution:	1.0				1	nitial Weight/Volu	me: 1.53 g	
Analysis Date:	09/18/20	13 0411				Final Weight/Volur	ne: 100.00 mL	
Prep Date:	09/16/20	13 1730						
Analyte		DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Copper	5	MSZ	17.1			0.16	1.8	
Molybdenum	L	4 1	6.2			0.078	0.70	

Mulas/p

Client: URS Corporation

Client Sample ID:	CVR1TR3-1-T01N	-SOL					
Lab Sample ID:	200-18417-20				Dat	e Sampled: 09/11/2013	3 1410
Client Matrix:	Solid	% Moisture	9: 6.9		Dat	e Received: 09/13/2013 1000	
		6010C	Metals (ICP)		A A		
Analysis Method:	6010C	Analysis Batch:	200-61317	inst	rument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61223	Lab File ID:		091713-04.ttx	
Dilution:	1.0			Initia	al Weight/Volume:	1.80 g	
Analysis Date:	09/18/2013 0417			Fina	Weight/Volume:	100.00 mL	
Prep Date:	09/16/2013 1730						
Analyte	DryWt Corr	ected: Y Result (m	ng/Kg)	Qualifier	MDL	RL	
Copper	5 MS-C	20.0			0.13	1.5	
Molybdenum	6 4 4	6.0			0.066	0.60	

Tohs/m

Client: URS Corporation

Job Number: 200-18417-1 Sdg Number: 200-18417-1

Lab Sample ID: Client Matrix:	200 Sol	R2TR3-3-T01N-SOL)-18417-21 id	% Moisture	e: 15.2		Da Da	te Sampled: 09/11/20 te Received: 09/13/20	13 1320 13 1000
-			6010C	Metals (ICP)				
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/17/2 09/16/2	2013 2325 2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61224	h L h F	nstrument ID: .ab File ID: nitial Weight/Volume Final Weight/Volume:	METICP7 091713-04.ttx : 1.54 g 100.00 mL	
Analyte		DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL	
Copper Molybdenum	T	MS-L L L	12.0 1.8		В	0.17 0.084	1.9 0.77	

Als/R

TestAmerica Burlington

Client: URS Corporation

Client Sample ID:	RB-02-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-2RB Water				Dat Dat	te Sampled: 09/11/2013 131 te Received: 09/13/2013 100	0 D
		9056 Anions, le	on Chromatog	raphy			
Analysis Method:	9056	Analysis Batch:	400-192076		Instrument ID:	IC2	
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ar	ni
Dilution:	1.0				Initial Weight/Volume:	1 mL	
Analysis Date:	09/18/2013 0159				Final Weight/Volume:		
Prep Date:	N/A				Injection Volume:	1 uL	
Analyte		Result (m	ng/L)	Qualifie	r MDL	RL	
Sulfate		1.00		U	0.027	1.00	2

Achs/13

Client: URS Corporation

Cilent Sample ID:	CVR2TR3-2-T01N-SOL					
Lab Sample ID:	200-18417-22					Date Sampled: 09/11/2013 1257
Client Matrix:	Solid	% Moisture	9.7			Date Received: 09/13/2013 1000
	A PART CARAGE T	9056 Anions, Ion Cl	nromatograph	y-Soluble	9	
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volun	ne: 1 mL
Analysis Date:	09/18/2013 1930				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: Y	' Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	JMAL	42.3	11. CAL		3.25	22.3

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Client: URS Corporation

Client Sample ID:	CVR2TR3-1-T01D-SOL					
Lab Sample ID: Client Matrix:	200-18417-23 Solid	% Moisture	: 10.4			Date Sampled: 09/11/2013 1220 Date Received: 09/13/2013 1000
		9056 Anions, Ion Cl	nromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192078	- 1	nstrument ID:	IC2
	N/A	Prep Batch:	N/A	- 1	ab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962		nitial Weight/Volun	ne: 1 mL
Analysis Date:	09/18/2013 1953			F	-inal Weight/Volum	ie:
Prep Date:	N/A			-1	njection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: `	Y Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate 3	Mal	11.7	i n	J	3.26	22.4

Al ps/13

Client: URS Corporation

Client Sample ID:	CVR2TR3-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-24 Solid	% Moisture: 6.4				Date Sampled: 09/11/2013 1220 Date Received: 09/13/2013 1000
		9056 Anions, Ion Cl	nromatograph	y-Soluble	9	
Analysis Method:	9056 N/A	Analysis Batch: Pren Batch:	400-192078 N/A		Instrument ID:	IC2 Info 2, Pen Metrohm, Ani
Dilution: Analysis Date	1.0	Leach Batch:	400-191962		Initial Weight/Volu	me: 1 mL
Prep Date:	N/A				Injection Volume:	ne. 1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: \	r Result (m	g/Kg)	Qualifie	r MDL	RL
Sulfate	5 MR-C	43.5			3.05	20.9

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Client: URS Corporation

Client Sample ID:	CVR3TR3-3-T01N-SOL						
Lab Sample ID:	200-18417-25				Date Sampled: 09/11/2013		
Client Matrix:	Solid	% Moisture	: 11.9			Date Received: 09/13/2013	3 1000
		9056 Anlons, Ion C	hromatograph	y-Soluble	I BE STOR	4	
Analysis Method:	9056	Analysis Batch:	400-192078	2.0	Instrument ID:	IC2	
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metroh	m Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volur	me: 1 mL	
Analysis Date:	09/18/2013 1650				Final Weight/Volun	ne:	
Prep Date:	N/A				Injection Volume:	1 uL	
Leach Date:	09/17/2013 1445						
Analyte	DryWt Corrected: \	Result (m	g/Kg)	Qualifier	MDL	RL	
Sulfate	5 Mr.c	171			3.30	22.7	

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Client: URS Corporation

Client Sample ID:	CVR3TR3-2-T01N-SOL					
Client Matrix:	200-18417-26 Solid	% Moisture: 9.6				Date Sampled: 09/11/2013 1058 Date Received: 09/13/2013 1000
		9056 Anlons, Ion C	hromatograph	y-Soluble	,	West of the second second
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2 Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volun	ne: 1 mL
Analysis Date:	09/18/2013 2039				Final Weight/Volum	ne:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445				1. 1. 1. 1.	
Analyte	DryWt Corrected:	r Result (n	ng/Kg)	Qualifier	MDL	RL
Sulfate	5 MRC	442			3.18	21.9

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Client: URS Corporation

Job Number: 200-18417-2 Sdg Number: 200-18417-2

Client Sample ID:	CVR3TR3-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-27 Solid	% Moisture	9: 11.6			Date Sampled: 09/11/2013 1050 Date Received: 09/13/2013 1000
. Alexandra		9056 Anions, ion C	hromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192233		Instrument ID:	IC2
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2 Pen-Metrohm Ani
Dilution:	5.0	Leach Batch:	400-191962		Initial Weight/Volu	me: 1 mL
Analysis Date:	09/19/2013 2159				Final Weight/Volu	me:
Prep Date:	N/A				Injection Volume:	1 uL
Leach Date:	09/17/2013 1445					
Analyte	DryWt Corrected: 1	r Result (n	ng/Kg)	Qualifie	r MDL	RL
Sulfate 5	MS-L	2180			16.3	112

Al ps/m

TestAmerica Burlington

Client: URS Corporation

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Client Sample ID:	CVR3TR2-3-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-28 Solid	% Moisture	: 14.0			Date Sampled: 09/11/201 Date Received: 09/13/201	3 1005 3 1000
and the Asso		9056 Anions, Ion Cl	nromatograph	y-Soluble	9		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2	
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2 Pen-Metrol	hm Ani
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volu	me: 1 mL	20 B
Analysis Date:	09/18/2013 2125				Final Weight/Volur	ne:	
Prep Date:	N/A				Injection Volume:	1 uL	
Leach Date:	09/17/2013 1445				A. Stands		
Analyte	DryWt Corrected: \	r Result (m	a/Ka)	Qualifie	r MDL	RL	
Sulfate	5 Mr.C	31.7	,		3.36	23.1	Patronesian

April 13

Client: URS Corporation

Client Sample ID:	CVR3TR2-2-T01N-SOL						
Lab Sample ID:	200-18417-29				Date Sampled: 09/11/2013 09		
Client Matrix:	Solid	% Moisture: 14.6				Date Received: 09/13/2013 1000	
		9056 Anions, ion C	hromatograph	y-Soluble)		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2	
	N/A	Prep Batch:	N/A		Lab File ID:	Info 2_Pen-Metrohm_Ani	
Dilution:	1.0	Leach Batch:	400-191962		Initial Weight/Volu	me: 1 mL	
Analysis Date:	09/18/2013 2147				Final Weight/Volur	ne:	
Prep Date:	N/A				Injection Volume:	1 uL	
Leach Date:	09/17/2013 1445						
Analyte	DryWt Corrected: Y	' Result (m	g/Kg)	Qualifie	r MDL	RL	
Sulfate J	MAL	132			3.42	23.5	

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Client: URS Corporation

Client Sample ID:	CVR3TR2-1-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-30 Solid	% Moisture: 13.1			Date Sampled: 09/11/20 Date Received: 09/13/20		
		9056 Anions, Ion Ch	romatograph	y-Soluble			
Analysis Method:	9056 N/A	Analysis Batch: Prep Batch:	400-192078 N/A		Instrument ID: Lab File ID:	IC2 Info 2_Pen-Metrohm_Ani	
Dilution: Analysis Date:	1.0 09/18/2013 2210	Leach Batch:	400-191962		Initial Weight/Volu Final Weight/Volur	me: 1 mL ne:	
Prep Date: Leach Date:	N/A 09/17/2013 1445				Injection Volume:	1 uL	
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Sulfate J	mse	345			3.36	23.1	

M 10/25/23

Client: URS Corporation

Client Sample ID:	CVR2TR2-3-T01N-SOL					
Lab Sample ID:	200-18417-31					Date Sampled: 09/11/2013 0820
Client Matrix:	Solid	% Moisture	: 13.0			Date Received: 09/13/2013 1000
		9056 Anions, Ion C	hromatograph	y-Soluble		
Analysis Method:	9056	Analysis Batch:	400-192078		Instrument ID:	IC2
	N/A	Prep Batch:	N/A	1	Lab File ID:	Info 2_Pen-Metrohm Ani
Dilution:	1.0	Leach Batch:	400-191962	11	Initial Weight/Volur	me: 1 mL
Analysis Date:	09/18/2013 2233			e an n	Final Weight/Volun	ne:
Prep Date:	N/A			A. H	njection Volume:	1 uL
Leach Date:	09/17/2013 1445		4			
Analyte	DryWt Corrected: Y	r Result (m	g/Kg)	Qualifier	MDL	RL
Sulfate	J MS-L	24.2			3.29	22.6

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Client: URS Corporation

Client Sample ID:	RB-02-T01N-SOL						
Lab Sample ID: Client Matrix:	200-18417-2RB Water				Da Da	Date Sampled: 09/11/2013 1310 Date Received: 09/13/2013 1000	
		6010C	Metals (ICP)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
Analysis Method:	6010C	Analysis Batch:	200-61470	Ins	trument ID:	METICP7	
Prep Method:	3010A	Prep Batch:	200-61300	Lat	File ID:	091913-01 6010C	.ttx
Dilution:	1.0			Init	ial Weight/Volume:	100.00 mL	
Analysis Date:	09/20/2013 1011			Fin	al Weight/Volume:	100.00 mL	
Prep Date:	09/17/2013 1730						
Analyte		Result (u	g/L)	Qualifier	MDL	RL	
Copper		25.0		U	4.3	25.0	
Molybdenum		10.0		U	0.55	10.0	

Al 1/2/13

Client: URS Corporation

Client Sample ID:	CVR2TR3-2-T01N-SOL						
Lab Sample ID:	200-18417-22 Solid	% Mointure	0.7		Date Sampled: 09/11/2013		
	Solid		i. 9.1	100	Da	ate Received: 09/13/2013 1000	
		6010C	Metais (ICP)	1			
Analysis Method:	6010C	Analysis Batch:	200-61317		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61224	1. 1. 1. 1.	Lab File ID:	091713-04.ttx	
Dilution:	1.0			6 - C	Initial Weight/Volume	: 1.69 g	
Analysis Date:	09/17/2013 2331			1.1	Final Weight/Volume	: 100.00 mL	
Prep Date:	09/16/2013 1730						
Analyte	DryWt Corrected: Y	r Result (m	ig/Kg)	Qualifier	MDL	RL	
Copper	J MS-C	19.5		В	0.14	1.6	
Molybdenum	L L J	7.4			0.072	0.66	

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Client: URS Corporation

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Client Sample ID:	CVR21R3-1-1010-SOL					
Lab Sample ID: Client Matrix:	200-18417-23 Solid	% Moisture	: 10.4		Date Date	Sampled: 09/11/2013 1220 Received: 09/13/2013 1000
		6010C I	letais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61317	Ins	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61224	La	b File ID:	091713-04.ttx
Dilution:	1.0			Init	tial Weight/Volume:	1.55 g
Analysis Date:	09/17/2013 2336			Fin	nal Weight/Volume:	100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: \	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	5 MS-6	16.0		В	0.16	1.8
Molybdenum	6 1 1	1.7			0.079	0.72

A 10/10/13

Client: URS Corporation

Client Sample ID:	CVR2TR3-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-24 Solid	% Moisture	6.4		D D	ate Sampled: 09/11/2013 1220 ate Received: 09/13/2013 1000
		6010C N	letais (ICP)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/17/2013 2342 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61224		Instrument ID: Lab File ID: Initial Weight/Volume Final Weight/Volume	METICP7 091713-04.ttx e: 1.73 g e: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	5 MEL	15.6		В	0.14	1.5
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 2.0 09/19/2013 2319 09/16/2013 1730	Analysis Batch: Prep Batch:	200-61470 200-61224		Instrument ID: Lab File ID: Initial Weight/Volume Final Weight/Volume	METICP7 091913-01 6010C.ttx e: 1.73 g e: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	JMFL	2.8	1		0.14	1.2

10/05/3

Client: URS Corporation

Client Sample ID:	CVR	3TR3-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200- ² Solid	18417-25	% Moisture	11.9			Date Sampled: 09/11/2013 1110 Date Received: 09/13/2013 1000
State State			6010C M	fetals (ICP)			
Analysis Method:	6010C		Analysis Batch:	200-61317	1	nstrument ID:	METICP7
Prep Method:	3050B		Prep Batch:	200-61224		ab File ID:	091713-04.ttx
Dilution:	1.0				111	nitial Weight/Volu	me: 1.79 g
Analysis Date:	09/17/20	13 2348			F	inal Weight/Volu	me: 100.00 mL
Prep Date:	09/16/20	013 1730					
Analyte		DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper	5	POSTED-L	14.2		В	0.14	1.6
Molybdenum	J	1 1 1	8.3			0.070	0.63

Client: URS Corporation

Client Sample ID:	c	VR3TR3-2-T01N-SOL						
Lab Sample ID:	2	00-18417-26	N/ Mainture			Date Sampled: 09/11/20		
				3. 9.0			Date Received: 09/13/2013 1000	
			6010C	Metals (ICP)				
Analysis Method:	6010	C	Analysis Batch:	200-61317	Instrument ID: M		METICP7	
Prep Method:	3050)B	Prep Batch:	200-61224	Lab File ID:		091713-04.ttx	
Dilution:	1.0					Initial Weight/Volu	me: 1.65 a	
Analysis Date:	09/1	8/2013 0035				Final Weight/Volur	me: 100.00 mL	
Prep Date:	09/1	6/2013 1730						
Analyte		DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL	
Copper	5	Mr.C	29.2	a state prove	В	0.15	1.7	
Molybdenum	5	M5-C	49.7			0.074	0.67	

AL 10/25/13

Client: URS Corporation

Client Sample ID:	CVR3TR3-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-27 Solid	% Moisture	e: 11.6			Date Sampled: 09/11/2013 1050 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		METICP7	
Prep Method:	3050B	Prep Batch:	200-61224	1.2000	ab File ID:	091913-01 6010C.ttx
Dilution:	2.0				nitial Weight/Volu	me: 1.88 g
Analysis Date:	09/19/2013 2332				-inal Weight/Volu	me: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Copper	J MS-C	15.3		В	0.26	3.0
Molybdenum	5 ME-L	3.9			0.13	1.2

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Client: URS Corporation

Client Sample ID:	CVR3TR2-3-T01N-SOL					
Lab Sample ID: Client Matrix:	200-18417-28 Solid	% Moisture	e: 14.0			Pate Sampled: 09/11/2013 1005 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)	6.2.42	3/12 3/1	and the second second
Analysis Method:	6010C	Analysis Batch:	200-61317	ins	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61224	La	b File ID:	091713-04.ttx
Dilution:	1.0			Init	tial Weight/Volum	e: 1.82 g
Analysis Date:	09/18/2013 0047			Fin	nal Weight/Volume	e: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Copper	JMSZ	11.7		В	0.14	1.6
Molybdenum	5 Mr.L	1.0			0.070	0.64

A johala

Client: URS Corporation

Client Sample ID:	C	R3TR2-2-T01N-SOL						
Lab Sample ID: Client Matrix:	20 Se	00-18417-29 blid	% Moisture	e: 14.6		Date Sampled: 09/11/2013 Date Received: 09/13/2013		
	2.3		6010C	Metals (ICP)	1811			
Analysis Method:	6010	0	Analysis Batch:	200-61317	1-2112	nstrument ID:	METICP7	
Prep Method:	3050	3	Prep Batch:	200-61224	Lab File ID:		091713-04.ttx	
Dilution:	1.0					nitial Weight/Volur	me: 1.45 a	
Analysis Date:	09/18	/2013 0052			1	-inal Weight/Volur	ne: 100.00 mL	
Prep Date:	09/16	/2013 1730						
Analyte		DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL	
Copper	5	MS-C	12.5		В	0.18	2.0	
Molybdenum	J	m5-2	5.3			0.089	0.81	

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Client: URS Corporation

Client Sample ID:	CVI	R3TR2-1-T01N-SOL					
Lab Sample ID: Client Matrix:	200 Soli	-18417-30 d	% Moisture: 13.1			Date Sampled: 09/11/2013 0920 Date Received: 09/13/2013 1000	
	1. 1		6010C I	Metals (ICP)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/18/2 09/16/2	2013 0058 2013 1730	Analysis Batch: Prep Batch:	200-61317 200-61224		Instrument ID: Lab File ID: Initial Weight/Volu Final Weight/Volur	METICP7 091713-04.ttx me: 1.89 g ne: 100.00 mL
Analyte		DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Copper Molybdenum	5	M5-2 M5-2	15.8 6.8		В	0.13 0.067	1.5 0.61

4 10/25/23

Client: URS Corporation

Client Sample ID:	CVR21R2-3-101N-SOL					
Lab Sample ID: Client Matrix:	200-18417-31 Solid	% Moisture	e: 13.0		ľ	Date Sampled: 09/11/2013 0820 Date Received: 09/13/2013 1000
		6010C	Metais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61317	Instr	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61224	Lab	File ID:	091713-04.ttx
Dilution:	1.0			Initia	Weight/Volum	ne: 1.46 g
Analysis Date:	09/18/2013 0104			Fina	Weight/Volum	ie: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL
Copper	J MS-L	8.3		В	0.17	2.0
Analysis Method:	6010C	Analysis Batch:	200-61470	Instr	ument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61224	Lab	File ID:	091913-01 6010C.ttx
Dilution:	2.0			Initia	I Weight/Volum	ne: 1.46 a
Analysis Date:	09/19/2013 2339			Fina	I Weight/Volum	ie: 100.00 mL
Prep Date:	09/16/2013 1730					
Analyte	DryWt Corrected: Y	Result (n	ng/Kg)	Qualifier	MDL	RL
Molybdenum	5 542, 195-2	1.2		J	0.17	1.6

Mappin

Job Number: 200-18424-1 Sdg Number: 200-18424-1

Client Sample ID:	CVR1TR1-1-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-1 Tissue	% Moisture	: 55.8		Date Date	Sampled: 09/10/2013 1432 Received: 09/13/2013 1000
		6010C I	Vietals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volume:	1.33 g
Analysis Date:	09/20/2013 0552				Final Weight/Volume:	100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL.	RL
Molybdenum	JFOI	26.1	All a start	A SAME SAME	0.19	1.7

Client: URS Corporation

Client: URS Corporation

Client Sample ID:	CVR1TR1-2-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-2 Tissue	% Moisture:	49.8			Date Sampled: 09/10/2013 1538 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	si vu	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.41 g
Analysis Date:	09/20/2013 0559			al state	Final Weight/Volu	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 for	18.7			0.16	1.4

Client: URS Corporation

Client Sample ID:	CVR1TR1-3-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-3 Tissue	% Moisture:	51.0			Date Sampled: 09/10/2013 1520 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.33 g
Analysis Date:	09/20/2013 0626				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 \$0-E	66.0		IN-Set 7	0.17	1.5

Client: URS Corporation

Client Sample ID:	CVR1TR1-1-T03N-PLTFAW	/				
Lab Sample ID: Client Matrix:	200-18424-4 Tissue	% Moisture	: 71.0			Date Sampled: 09/10/2013 1412 Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)	V = 6 + 6		
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.42 g
Analysis Date:	09/20/2013 0633				Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	JFR-I	31.4			0.27	2.4
Client: URS Corporation

Client Sample ID:	CVR1TR1-2-T03N-PLTFAW	1				
Lab Sample ID: Client Matrix:	200-18424-5 Tissue	% Moisture	68.7			Date Sampled: 09/10/2013 1453 Date Received: 09/13/2013 1000
		6010C N	letais (ICP)		24 M 1973	
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0			for Silve	nitial Weight/Volur	ne: 1.38 g
Analysis Date:	09/20/2013 0640				Final Weight/Volun	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FP-I	50.5	MA NALINALI PO	1	0.25	2.3

Client: URS Corporation

Client Sample ID:	CVR1TR1-2-T03D-PLTFAW	V					
Lab Sample ID: Client Matrix:	200-18424-6 Tissue	% Moisture	70.3			Date Sampleo Date Receive	d: 09/10/2013 1453 d: 09/13/2013 1000
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METH	CP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	09191	13-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.40	g
Analysis Date:	09/20/2013 0647				Final Weight/Volu	me: 100.0	0 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	MDL	li l	٦L
Molybdenum	J FR-E	57.7		A MAN	0.26	2.3/19/11/2012	2.4

Client: URS Corporation

Client Sample ID:	CVR1TR1-3-T03N-PLTFAV	V				
Lab Sample ID:	200-18424-7					Date Sampled: 09/10/2013 1513
Client Matrix:	Tissue	% Moisture	: 69.8			Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.26 g
Analysis Date:	09/20/2013 0654				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fo-7	16.6	ad a second second		0.29	2.6

Client: URS Corporation

Client Sample ID:	CVR1TR2-1-T02N-PLT	GAW				
Lab Sample ID: Client Matrix:	200-18424-8 Tissue	% Moisture	e: 54.0		Da Da	ate Sampled: 09/10/2013 1548 ate Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	In	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307	La	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0			In	itial Weight/Volume	: 1.39 g
Analysis Date:	09/20/2013 0700			F	nal Weight/Volume	: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected	d: Y Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	5 \$0-I	15.7		11.40 S.	0.17	1.6

Client: URS Corporation

Client Sample ID:	CVR1TR2-2-T02N-PLTGAV	V				
Lab Sample ID: Client Matrix:	200-18424-9 Tissue	% Moisture:	56.3			Date Sampled: 09/10/2013 1608 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.80 g
Analysis Date:	09/20/2013 0707				Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (mg	J/Kg)	Qualifier	MDL	RL
Molybdenum	5 fo-I	7.1			0.14	1.3

Client: URS Corporation

Client Sample ID:	CVR1TR2-3-T02N-PLTGAV	N					
Lab Sample ID: Client Matrix:	200-18424-10 Tissue	% Moisture:	56.2			Date Sampled: 09/10/2013 1638 Date Received: 09/13/2013 1000	
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.48 g	
Analysis Date:	09/20/2013 0714				Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL	
Molybdenum	J FP-2	2.5		1.000	0.17	1.5	

Client: URS Corporation

Client Sample ID:	CVR1TR2-1-T03N-PLTFAW	V				
Lab Sample ID: Client Matrix:	200-18424-11 Tissue	% Moisture	: 69.4			Date Sampled: 09/10/2013 1538 Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				nitial Weight/Volu	me: 1.50 g
Analysis Date:	09/20/2013 0721				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fo-I	26.0		i nam	0.24	2.2

Client: URS Corporation

Client Sample ID:	CVR1TR2-2-T03N-PLTFAW	V				
Lab Sample ID: Client Matrix:	200-18424-12 Tissue	% Moisture	: 61.2			Date Sampled: 09/10/2013 1602 Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.32 g
Analysis Date:	09/20/2013 0728				Final Weight/Volum	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fp-2	20.4		and a second	0.22	2.0

Client: URS Corporation

Client Sample ID:	CVR1TR2-3-T03N-PLTFAW	V				
Lab Sample ID: Client Matrix:	200-18424-13 Tissue	% Moisture	64.8			Date Sampled: 09/10/2013 1625 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	in the second	nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307	L	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0			1	nitial Weight/Volu	me: 1.70 g
Analysis Date:	09/20/2013 0755			F	inal Weight/Volu	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J FO-T	7.4			0.18	1.7

Client: URS Corporation

Client Sample ID:	CVR1TR3-1-T02N-PLTGAV	N					
Lab Sample ID: Client Matrix:	200-18424-14 Tissue	% Moisture	: 58.1			Date Sampled: Date Received	: 09/11/2013 1425 I: 09/13/2013 1000
		6010C I	Metals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METIC	P7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	09191:	3-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.40	9
Analysis Date:	09/20/2013 0802				Final Weight/Volu	me: 100.00	mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	R	L
Molybdenum	JFAZ	40.4			0.19	1.	7

Client: URS Corporation

Client Sample ID:	CVR1TR3-2-T02N-PLTGAV	N				
Lab Sample ID: Client Matrix:	200-18424-15 Tissue	% Moisture	: 54.4			Date Sampled: 09/11/2013 1443 Date Received: 09/13/2013 1000
		6010C N	fetals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307	Lab File ID:		091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.46 g
Analysis Date:	09/20/2013 0809				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fP-I	29.5		and a star	0.17	1.5

Client: URS Corporation

Client Sample ID:	CVR1TR3-3-T02N-PLTGAV	V						
Lab Sample ID: Client Matrix:	200-18424-16 Tissue	% Moisture	56.3			Date Sam Date Rece	Date Sampled: 09/11/2013 1458 Date Received: 09/13/2013 1000	
		6010C I	letals (ICP)					
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	м	ETICP7	
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	09	1913-01 6010C.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.	47 g	
Analysis Date:	09/20/2013 0815				Final Weight/Volu	me: 10	0.00 mL	
Prep Date:	09/18/2013 1800							
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL		RL	
Molybdenum	540-1	32.8		75	0.17		1.6	

Client: URS Corporation

Client Sample ID:	CVR1TR3-1-T03N-PLTFAV	V				
Lab Sample ID:	200-18424-17					Date Sampled: 09/11/2013 1420
Client Matrix:	Tissue	% Moisture	e: 65.3			Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307	1994 I. (199	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0			115	nitial Weight/Volu	me: 1.68 g
Analysis Date:	09/20/2013 0822			1.0	inal Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Molybdenum	5 FD-7	72.2		1.1	0.19	1.7

Client: URS Corporation

Client Sample ID:	CVR1TR3-2-T03N-PLTFAV	V					
Lab Sample ID: Client Matrix:	200-18424-18 Tissue	% Moisture	: 72.0			Date Sampled	: 09/11/2013 1435 I: 09/13/2013 1000
grans ^{ar a} rres		6010C I	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470	41 C 1 - 1	Instrument ID:	METIC	P7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	09191	3-01 6010C.ttx
Dilution:	1.0			15 1	Initial Weight/Volu	ume: 1.72	9
Analysis Date:	09/20/2013 0829			2013-11	Final Weight/Volu	me: 100.00) mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	R	L
Molybdenum	S FO-I	82.6	日本書書	outinities -	0.23	2	1

Client: URS Corporation

Client Sample ID:	CVR2TR2-2-T02N-PLTGAV	V				
Lab Sample ID:	200-18424-28					Date Sampled: 09/11/2013 0850
Client Matrix:	Tissue	% Moisture	e: 57.8			Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volur	ne: 1.43 g
Analysis Date:	09/20/2013 0836				Final Weight/Volun	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	5 FD-T	4.6		128	0.18	1.7

Client: URS Corporation

Client Sample ID:	RB-03-T01N-PLT					
Lab Sample ID: Client Matrix:	200-18424-39RB Water				Date Sampled: 09/10/2013 Date Received: 09/13/2013	1425 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:	METICP7	
Prep Method:	3010A	Prep Batch:	200-61415	Lab File ID:	092013-01.ttx	
Dilution:	1.0			Initial Weight/Volum	e: 100.00 mL	
Analysis Date:	09/20/2013 2336			Final Weight/Volum	e: 100.00 mL	
Prep Date:	09/19/2013 1730			1. 小时对他们早世的		

Analyte	Result (ug/L)	Qualifier	MDL	RL	
Molybdenum	10.0	U	0.55	10.0	1000

Client: URS Corporation

Client Sample ID:	EQBLK01					
Lab Sample ID: Client Matrix:	200-18424-74 Tissue	% Moisture	e: 0.0			Date Sampled: 09/13/2013 0000 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)	4 10 1 2		
Analysis Method:	6010C	Analysis Batch:	200-61470	Ir	nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61307	L	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0	a di Shina		Ir	nitial Weight/Volum	ne: 1.47 g
Analysis Date:	09/20/2013 0930			F	inal Weight/Volum	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum		0.68	1	U	0.075	0.68

Job Number: 200-18424-2 Sdg Number: 200-18424-2

Client: URS Corporation

Client Sample ID:	CVR1TR3-3-T03N-PLTFAV	V					
Lab Sample ID: Client Matrix:	200-18424-19 Tissue	% Moisture	68.8			Date Sample Date Receiv	ed: 09/11/2013 1451 ed: 09/13/2013 1000
		6010C N	fetals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	MET	ICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	0919	913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.45	g
Analysis Date:	09/20/2013 0215				Final Weight/Volu	me: 100.	00 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL		RL
Molybdenum	5 fp-T.	114			0.24	NE OK DE	2.2

Client: URS Corporation

Client Sample ID:	CVR2TR1-1-T02N-PLTGAV	v					
Lab Sample ID: Client Matrix:	200-18424-20 Tissue	% Moisture	: 54.0			Date S Date F	Sampled: 09/10/2013 1204 Received: 09/13/2013 1000
		6010C	Metals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:		091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me:	1.52 g
Analysis Date:	09/20/2013 0222				Final Weight/Volu	me:	100.00 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifie	MDL		RL
Molybdenum	5 FO-T.	9.6			0.16		1.4

Client: URS Corporation

Client Sample ID:	CVR2TR1-2-T02N-PLTGA	N				
Lab Sample ID: Client Matrix:	200-18424-21 Tissue	% Moisture	: 50.5			Date Sampled: 09/10/2013 1234 Date Received: 09/13/2013 1000
		6010C I	Vietals (ICP)	N.		
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.60 g
Analysis Date:	09/20/2013 0228				Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fo-t.	6.9			0.14	1.3

Client: URS Corporation

Client Sample ID:	CVR2TR1-3-T02N-PLTGAV	v				
Lab Sample ID:	200-18424-22					Date Sampled: 09/10/2013 1250
Client Matrix:	Tissue	% Moisture:	52.7			Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.51 g
Analysis Date:	09/20/2013 0235				Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	S FO-I	29.5	and the second H		0.15	1.4

Client: URS Corporation

Client Sample ID:	CVR2TR1-1-T03N-PLTFAM						
Lab Sample ID: Client Matrix:	200-18424-23 Tissue	% Moisture	66.2			Date Sampled Date Received	1: 09/10/2013 1151 d: 09/13/2013 1000
		6010C I	Wetals (ICP)	19.7			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METIC	CP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	09191	3-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.62	g
Analysis Date:	09/20/2013 0242				Final Weight/Volu	me: 100.00	0 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	MDL	F	₹L.
Molybdenum	5 FO-I	57.6		ovi se su s	0.20	1	.8

Client: URS Corporation

Client Sample ID:	CVR2TR1-2-T03N-PLTFAV	v				
Lab Sample ID:	200-18424-24				D	ate Sampled: 09/10/2013 1222
Client Matrix:	Tissue	% Moisture	68.7		D	ate Received: 09/13/2013 1000
		6010C N	Aetals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	In	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355	La	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0			In	itial Weight/Volum	e: 1.42 g
Analysis Date:	09/20/2013 0249			Fi	nal Weight/Volume	e: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-I	3.4		5. 5. 54	0.25	2.3

Client: URS Corporation

Client Sample ID:	CVR2TR1-3-T03N-PLTFAM	1						
Lab Sample ID: Client Matrix:	200-18424-25 Tissue	% Moisture	: 63.7			Date Sam Date Rec	pled: 09/10/2013 eived: 09/13/2013	1257 1000
		6010C I	Metals (ICP)					
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	м	ETICP7	
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	09	91913-01 6010C.tt	x
Dilution:	1.0				Initial Weight/Volu	ime: 1.	65 g	
Analysis Date:	09/20/2013 0256			с. 	Final Weight/Volu	me: 10	00.00 mL	
Prep Date:	09/18/2013 1800							
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	m MDL		RL	
Molybdenum	5 fo-I	15.7		WW.	0.18		1.7	

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T02N-PLTGAV	v				
Lab Sample ID:	200-18424-26	0/ 88-1-1-				Date Sampled: 09/11/2013 0827
	Tissue	% Moisture	55.8	1.100		Date Received: 09/13/2013 1000
No. No. No.		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.42 g
Analysis Date:	09/20/2013 0303				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifie	MDL	RL
Molybdenum	5 FO-T	9.1	Note in the	The Street Street	0.18	1.6

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T02D-PLTGAV	N				
Lab Sample ID:	200-18424-27					Date Sampled: 09/11/2013 0827
Client Matrix:	Tissue	% Moisture	58.1			Date Received: 09/13/2013 1000
		6010C N	fetals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	1 a 1	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.53 g
Analysis Date:	09/20/2013 0330				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-E	8.0	a una an	201	0.17	1.6

Client: URS Corporation

Client Sample ID:	CVR2TR2-3-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-29 Tissue	% Moisture	57.3			Date Sampled: 09/11/2013 0923 Date Received: 09/13/2013 1000
		6010C I	Wetals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	10 Mar 1	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355	1	Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				nitial Weight/Volur	ne: 1.42 g
Analysis Date:	09/20/2013 0336			314 J.W	Final Weight/Volun	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-E	14.3	e avenue		0.18	1.6

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T03N-PLTFAV	V				
Lab Sample ID: Client Matrix:	200-18424-30 Tissue	% Moisture	: 77.3			Date Sampled: 09/11/2013 0811 Date Received: 09/13/2013 1000
		6010C I	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	198.1	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355	$\lambda = \lambda = 0$	Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0			1	nitial Weight/Volum	ne: 1.48 g
Analysis Date:	09/20/2013 0343				Final Weight/Volum	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-Z	10.7			0.33	3.0

Client: URS Corporation

Client Sample ID:	CVR2TR2-2-T03N-PLTFAV	V					
Lab Sample ID: Client Matrix:	200-18424-31 Tissue	% Moisture:	77.1			Date San Date Rec	npled: 09/11/2013 0839 eived: 09/13/2013 1000
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61470	In	strument ID:	N	IETICP7
Prep Method:	3050B	Prep Batch:	200-61355	La	ab File ID:	0	91913-01 6010C.ttx
Dilution:	1.0			In	itial Weight/Volun	ne: 1	.39 g
Analysis Date:	09/20/2013 0350			Fi	nal Weight/Volum	ne: 1	00.00 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	19.00	RL
Molybdenum	5 fp-t	53.7	144.4		0.35		3.1

Client: URS Corporation

Client Sample ID:	CVR2TR2-3-T03N-PLTFAV	V					
Lab Sample ID: Client Matrix:	200-18424-32 Tissue	% Moisture	: 69.0			Date Sampleo Date Receive	d: 09/11/2013 0917 d: 09/13/2013 1000
		6010C I	letals (ICP)			at the	
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METH	CP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	0919	13-01 6010C ttx
Dilution:	1.0				nitial Weight/Volu	me: 1.32	a
Analysis Date:	09/20/2013 0357			5 G 1	Final Weight/Volur	me: 100.0	0 mL
Prep Date:	09/18/2013 1800						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL		٦L
Molybdenum	5 \$0.7.	27.6			0.27	2	2.4

Client: URS Corporation

Client Sample ID:	CVR2TR2-1-T04N-PLTSAV	V				
Lab Sample ID:	200-18424-33					Date Sampled: 09/11/2013 0805
Client Matrix:	Tissue	% Moisture	: 58.5			Date Received: 09/13/2013 1000
		6010C I	Netals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.42 g
Analysis Date:	09/20/2013 0404				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 40-7	14.5			0.19	1.7

Client: URS Corporation

Client Sample ID:	CVR2TR2-2-T04N-PLTSAV	V				
Lab Sample ID: Client Matrix:	200-18424-34 Tissue	% Moisture:	73.1			Date Sampled: 09/11/2013 0835 Date Received: 09/13/2013 1000
		6010C N	letais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470	N	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.51 g
Analysis Date:	09/20/2013 0411				Final Weight/Volum	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifie	r MDL	RL
Molybdenum	5 60-7	18.4	STRUM KON		0.27	2.5

Client: URS Corporation

Client Sample ID:	CVR2TR2-3-T04N-PLTSAV	/				
Lab Sample ID: Client Matrix:	200-18424-35 Tissue	% Moisture	: 66.2			Date Sampled: 09/11/2013 0908 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.88 g
Analysis Date:	09/20/2013 0417				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	MDL	RL
Molybdenum	5 fD-I	10		The way	0.17	1.6

Client: URS Corporation

Client Sample ID:	CVR2TR3-1-T02N-PLTGAV	N				
Lab Sample ID: Client Matrix:	200-18424-36 Tissue	% Moisture	ə: 56.0		ב נ	Date Sampled: 09/11/2013 1310 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		Lab File ID:	091913-01 6010C.ttx
Dilution:	1.0				Initial Weight/Volum	ne: 1.35 g
Analysis Date:	09/20/2013 0424				Final Weight/Volum	e: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	J fo-t	25.5	1.11	X AUTO	0.19	1.7

Client: URS Corporation

Client Sample ID:	CVR2TR3-2-T02N-PLTGAV	V				
Lab Sample ID: Client Matrix:	200-18424-37 Tissue	% Moisture	: 56.3			Date Sampled: 09/11/2013 1333 Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61470		nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355		ab File ID:	091913-01 6010C.ttx
Dilution:	1.0			S	nitial Weight/Volu	me: 1.35 g
Analysis Date:	09/20/2013 0431			12.2	inal Weight/Volur	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J FP-I	28.6			0.19	1.7

Client: URS Corporation

Job Number: 200-18424-2 Sdg Number: 200-18424-2

Client Sample ID:	RB-05-T01N-PLT				
Lab Sample ID:	200-18424-40RB Water			Date Sampled: 09/11/2013 1315	
Client Matrix:				Date	Date Received: 09/13/2013 1000
		6010C	Metais (ICP)		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:	METICP7
Prep Method:	3010A	Prep Batch:	200-61415	Lab File ID:	092013-01.ttx
Dilution:	1.0			Initial Weight/Volume:	100.00 mL
Analysis Date:	09/20/2013 2343			Final Weight/Volume:	100.00 mL
Prep Date:	09/19/2013 1730				

AnalyteResult (ug/L)QualifierMDLRLMolybdenum10.0U0.5510.0
Client: URS Corporation

Client Sample ID:	CVR3TR2-1-T04N-PLTSAV	v				
Lab Sample ID: Client Matrix:	200-18424-50 Tissue	% Moisture	e: 71.7			Date Sampled: 09/11/2013 0941 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)	and so the		
Analysis Method:	6010C	Analysis Batch:	200-61470	1	nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61355	L.	ab File ID:	091913-01 6010C.ttx
Dilution:	1.0	The second second		1	nitial Weight/Volur	me: 1.59 a
Analysis Date:	09/20/2013 0458			F	inal Weight/Volun	ne: 100.00 mL
Prep Date:	09/18/2013 1800					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	5 M5, SD, D-I FD-	Z 8.5			0.24	2.2

Client: URS Corporation

Client Sample ID:	EQBLK02					
Lab Sample ID: Client Matrix:	200-18424-75 Tissue	% Moisture	ə: 0.0			Date Sampled: 09/13/2013 0000 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/20/2013 0532 09/18/2013 1800	Analysis Batch: Prep Batch:	200-61470 200-61355		Instrument ID: Lab File ID: Initial Weight/Volu Final Weight/Volur	METICP7 091913-01 6010C.ttx me: 1.44 g ne: 100.00 mL
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Molybdenum		0.69		U	0.076	0.69

Client: URS Corporation

Client Sample ID:	CVR2TR3-3-T02N-PLTGA	N					
Lab Sample ID: Client Matrix:	200-18424-38 Tissue	% Moisture:	58.9		Dat Da	te Sampled: 09/11/2013 1353 te Received: 09/13/2013 1000	
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480	Ins	strument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362	La	b File ID:	092013-01.ttx	
Dilution:	1.0			Ini	tial Weight/Volume:	1.42 g	
Analysis Date:	09/21/2013 0355			Fi	nal Weight/Volume:	100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL	
Molybdenum	J FD-I	6.7			0.19	1.7	

Client: URS Corporation

Client Sample ID:	CVR3TR1-1-T04N-PLTSAV	V					
Lab Sample ID:	200-18424-41					Date Sampled: 09/11/2013 07	37
Client Matrix:	Tissue	% Moisture:	71.5			Date Received: 09/13/2013 1000	
		6010C N	letals (ICP)				621 11
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.36 g	
Analysis Date:	09/21/2013 0402				Final Weight/Volur	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL	
Molybdenum	5 FD-I	16.1	and a		0.28	2.6	

Client: URS Corporation

Client Sample ID:	CVR3TR1-2-T04N-PLTSAV	V					
Lab Sample ID:	200-18424-42					Date Sampled: 09/09/201	3 1645
Client Matrix:	Tissue	% Moisture	43.5			Date Received: 09/13/201	3 1000
		6010C I	Wetals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.32 g	
Analysis Date:	09/21/2013 0408				Final Weight/Volur	ne: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	MDL	RL	
Molybdenum	5 fo-I	10.3			0.15	1.3	5.

Client: URS Corporation

Client Sample ID:	CVR3TR1-3-T04N-PLTSAV	V					
Lab Sample ID: Client Matrix:	200-18424-43 Tissue	% Moisture:	67.3			Date Sampled: 09/10/2013 Date Received: 09/13/2013	1118 1000
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362	19	Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	ime: 1.45 g	
Analysis Date:	09/21/2013 0436			1.5	Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (mg	J/Kg)	Qualifier	MDL	RL	
Molybdenum	J FD-I	15.8	No. 6	1. 1 P. 1. P	0.23	2.1	100000

Client: URS Corporation

Client Sample ID:	CVR3TR2-1-T02N-PLTGAV	N				
Lab Sample ID: Client Matrix:	200-18424-44 Tissue	% Moisture:	59.2			Date Sampled: 09/11/2013 1004 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.73 g
Analysis Date:	09/21/2013 0442				Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-I	5.0		(je bičevi	0.16	1.4

Client: URS Corporation

Client Sample ID:	CVR3TR2-2-T02N-PLTGAV	v					
Lab Sample ID: Client Matrix:	200-18424-45 Tissue	% Moisture	53.3			Date Sampled: 09/11/2013 10	25
		6010C I	Vietals (ICP)	Alastanet.			_
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	ime: 1.38 g	
Analysis Date:	09/21/2013 0449				Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Molybdenum	5 40-I	3.7	Der te d'		0.17	1.6	

Client: URS Corporation

Client Sample ID:	CVR3TR2-3-T02N-PLTGAV	v						
Lab Sample ID:	200-18424-46					Date Sa	mpled: 09/11/2013	1037
Client Matrix:	Tissue	% Moisture:	61.1			Date Re	eceived: 09/13/2013	1000
		6010C N	letais (ICP)	28.2				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:		METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:		092013-01.ttx	
Dilution:	1.0				Initial Weight/V	olume:	1.56 g	
Analysis Date:	09/21/2013 0456			1.00	Final Weight/Vo	olume:	100.00 mL	
Prep Date:	09/19/2013 1730				100 100			
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifie	r MDL		RL	
Molybdenum	J FD-I	24.1			0.18		1.6	

Client: URS Corporation

Client Sample ID:	CVR3TR2-1-T03N-PLTF	AW				
Lab Sample ID: Client Matrix:	200-18424-47 Tissue	% Moisture	e: 83.3			0ate Sampled: 09/11/2013 0952 0ate Received: 09/13/2013 1000
		6010C	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480	In	strument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362	La	ab File ID:	092013-01.ttx
Dilution:	1.0			Ini	itial Weight/Volum	e: 1.75 g
Analysis Date:	09/21/2013 0503			Fi	nal Weight/Volume	e: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected:	Y Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	J FO-Z	2.6	1.1	J	0.38	3.4

Client: URS Corporation

Client Sample ID:	CVR3TR2-2-T03N-PLTFAV	V				
Lab Sample ID:	200-18424-48					Date Sampled: 09/11/2013 1013
Client Matrix:	Tissue	% Moisture	83.7			Date Received: 09/13/2013 1000
		6010C	Metals (ICP)	1.1.1.5		
Analysis Method:	6010C	Analysis Batch:	200-61480		instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				initial Weight/Volu	me: 1.51 g
Analysis Date:	09/21/2013 0510			1.15	Final Weight/Volur	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ig/Kg)	Qualifier	MDL	RL
Molybdenum	5 fp-7	2.6		J	0.45	4.1

Job Number: 200-18424-3 Sdg Number: 200-18424-3

Client: URS Corporation

Client Sample ID:	CVR3TR2-3-T03N-PLTFAV	V				
Lab Sample ID: Client Matrix:	200-18424-49 Tissue	% Moisture:	72.0			Date Sampled: 09/11/2013 1033 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.43 g
Analysis Date:	09/21/2013 0517				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg	J/Kg)	Qualifie	MDL	RL
Molybdenum	5 for	20.5	CALL & DOOR	0 15	0.28	2.5

Client: URS Corporation

Client Sample ID:	CVR3TR2-3-T04N-PLTSAV	V				
Lab Sample ID: Client Matrix:	200-18424-51 Tissue	% Moisture:	58.4			Date Sampled: 09/11/2013 1020 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	ime: 1.56 g
Analysis Date:	09/21/2013 0524				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifie	MDL	RL
Molybdenum	5 FD-T	9.8			0.17	1.5

Client: URS Corporation

Client Sample ID:	CVR3TR2-3-T04D-PLTSAV	v				
Lab Sample ID: Client Matrix:	200-18424-52 Tissue	% Moisture:	59.9			Date Sampled: 09/11/2013 1028 Date Received: 09/13/2013 1000
		6010C N	letais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.60 g
Analysis Date:	09/21/2013 0531				Final Weight/Volur	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FD-T	20.0			0.17	1.6

Client: URS Corporation

Client Sample ID:	CVR3TR3-1-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-53 Tissue	% Moisture	: 53.7			Date Sampled: 09/11/2013 1128 Date Received: 09/13/2013 1000
		6010C I	Metals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.62 g
Analysis Date:	09/21/2013 0537				Final Weight/Volur	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-T	3.7			0.15	1.3

Client: URS Corporation

Client Sample ID:	CVR3TR3-2-T02N-PLTGAV	N					
Lab Sample ID: Client Matrix:	200-18424-54 Tissue	% Moisture	e: 51.1			Date Sampled: 09/11/2013 11 Date Received: 09/13/2013 10	49
		6010C	Metals (ICP)	e - 38°			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				nitial Weight/Volu	ime: 1.76 g	
Analysis Date:	09/21/2013 0605			12 21	Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/19/2013 1730				and a starts		
			in the second				
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL	
Molybdenum	5 fo-E	26.8			0.13	1.2	π.

Client: URS Corporation

Client Sample ID:	CVR3TR3-3-T02N-PLTGAV	V				
Lab Sample ID: Client Matrix:	200-18424-55 Tissue	% Moisture:	58.1		Date Date	Sampled: 09/11/2013 1205 Received: 09/13/2013 1000
		6010C N	letals (ICP)	1.313		
Analysis Method:	6010C	Analysis Batch:	200-61480	-2 - 1	nstrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362	L	ab File ID:	092013-01.ttx
Dilution:	1.0			1	nitial Weight/Volume:	1.57 g
Analysis Date:	09/21/2013 0612			F	inal Weight/Volume:	100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FO-I	20.7	12. 51.11	W.	0.17	1.5

Client: URS Corporation

Client Sample ID:	CVR3TR3-1-T03N-PLTFAM	/					
Lab Sample ID:	200-18424-56					Date Sampled: 09/11/2013 11	21
Client Matrix:	Tissue	% Moisture	73.6			Date Received: 09/13/2013 10	00
		6010C N	letais (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.42 g	
Analysis Date:	09/21/2013 0618				Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Molybdenum	5 fp-T	4.2			0.29	2.7	-

Client: URS Corporation

Client Sample ID:	CVR3TR3-2-T03N-PLTFAW	1					
Lab Sample ID: Client Matrix:	200-18424-57 Tissue	% Moisture	67.9			Date Sampled: 09/11/2013 1 Date Received: 09/13/2013 1	142 000
		6010C N	fletals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volu	me: 1.53 g	
Analysis Date:	09/21/2013 0625				Final Weight/Volu	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Molybdenum	5 FD-F.	18.6	and the second		0.22	2.0	101 580

Client: URS Corporation

Client Sample ID:	CVR3TR3-3-T03N-PLTFAV	V				
Lab Sample ID: Client Matrix:	200-18424-58 Tissue	% Moisture	: 75.0			Date Sampled: 09/11/2013 1204 Date Received: 09/13/2013 1000
		6010C I	Metais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01 tbx
Dilution:	1.0				Initial Weight/Volu	me: 1.59 g
Analysis Date:	09/21/2013 0632				Final Weight/Volur	me: 100.00 ml
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J FO-I	9.6		1. State	0.28	2.5

Client: URS Corporation

Client Sample ID:	RB-04-T01N-PLT						
Lab Sample ID:	200-18424-62RB					Date Sampled: 09/11/2013 1	1020
Client Matrix:	Water					Date Received: 09/13/2013 1	1000
		6010C	Metals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3010A	Prep Batch:	200-61415		Lab File ID:	092013-01.ttx	£.,
Dilution:	1.0				Initial Weight/Volu	me: 100.00 mL	
Analysis Date:	09/21/2013 0010				Final Weight/Volur	me: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte		Result (u	g/L)	Qualifier	MDL	RL	
Molybdenum		10.0		U	0.55	10.0	

Client: URS Corporation

Cilent Sample ID:	CVR2TR3-3-T03N-PLTFAM	V				
Lab Sample ID: Client Matrix:	200-18424-67 Tissue	% Moisture:	68.9		C C	Date Sampled: 09/11/2013 1345 Date Received: 09/13/2013 1000
		6010C N	letais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480	Ins	trument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362	Lat	b File ID:	092013-01.ttx
Dilution:	1.0			Init	ial Weight/Volum	e: 1.77 g
Analysis Date:	09/21/2013 0639			Fin	al Weight/Volume	e: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	J PDS, FD-H	29.1			0.20	1.8

Client: URS Corporation

Client Sample ID:	EQBLK03					
Lab Sample ID: Client Matrix:	200-18424-76 Tissue	% Moisture	: 0.0			Date Sampled: 09/13/2013 0000 Date Received: 09/13/2013 1000
		6010C I	Vietals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61362		Lab File ID:	092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.00 a
Analysis Date:	09/21/2013 0733				Final Weight/Volur	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum		1.0		U	0.11	1.0

Client: URS Corporation

Client Sample ID:	CVR3TR3-1-T04N-PLTSAW	1					
Lab Sample ID:	200-18424-59					Date Sample	ed: 09/11/2013 1115
Client Matrix:	Tissue	% Moisture:	66.0			Date Receive	ed: 09/13/2013 1000
		6010C N	letals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	MET	ICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		0920)13-01.ttx
Dilution:	1.0				Initial Weight/Volu	me: 1.42	g
Analysis Date:	09/21/2013 0105				Final Weight/Volu	me: 100.	00 mL
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL		RL
Molybdenum	J FP-I	5.7		S. 80	0.23		2.1

Client: URS Corporation

Client Sample ID:	CVR3TR3-2-T04N-PLTSAV	v				
Lab Sample ID: Client Matrix:	200-18424-60 Tissue	% Moisture:	64.7			Date Sampled: 09/11/2013 1142 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)	*		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0			11.1	nitial Weight/Volu	me: 1.58 g
Analysis Date:	09/21/2013 0111				inal Weight/Volur	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (mg	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FD-Z	39.3		•	0.20	1.8

Client: URS Corporation

Client Sample ID:	CVR3TR3-3-T04N-PLTSAV						
Lab Sample ID:	200-18424-61					Date Sampled: 09/11/	2013 1155
Client Matrix:	Tissue	% Moisture	67.9			Date Received: 09/13/	2013 1000
		6010C N	fetals (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7	
Prep Method:	3050B	Prep Batch:	200-61414	1	ab File ID:	092013-01.ttx	
Dilution:	1.0			1	nitial Weight/Volur	me: 1.47 g	
Analysis Date:	09/21/2013 0139			F	inal Weight/Volun	ne: 100.00 mL	
Prep Date:	09/19/2013 1730	Provide states					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Molybdenum	J FD-I	5.9			0.23	2.1	

Client: URS Corporation

Client Sample ID:	RB-06-T01N-PLT						
Lab Sample ID: Client Matrix:	200-18424-63RB Water			D D	Date Sampled: 09/11/2013 1531 Date Received: 09/13/2013 1000		
		6010C	Metals (ICP)	- Sha			
Analysis Method:	6010C	Analysis Batch:	200-61480	Instr	ument ID:	METICP7	
Prep Method:	3010A	Prep Batch:	200-61415	Lab File ID:		092013-01.ttx	
Dilution:	1.0			Initia	al Weight/Volume	e: 100.00 mL	
Analysis Date:	09/21/2013 0017			Fina	Weight/Volume	e: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte		Result (u	ig/L)	Qualifier	MDL	RL	
Molybdenum		10.0		U	0.55	10.0	

Client: URS Corporation

Client Sample ID:	CVR2TR3-1-T03N-PLTFAM	V. Contraction of the second				
Lab Sample ID:	200-18424-64					Date Sampled: 09/11/2013 1301
Client Matrix:	Tissue	% Moisture:	67.8			Date Received: 09/13/2013 1000
		6010C N	letals (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0			1	nitial Weight/Volur	ne: 1.46 g
Analysis Date:	09/21/2013 0145			F	inal Weight/Volun	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 fd-I	52.3			0.23	2.1

Client: URS Corporation

Client Sample ID:	CVR2TR3-2-T03N-PLTFAW	V				
Lab Sample ID:	200-18424-65		100			Date Sampled: 09/11/2013 1324
Client Matrix:	Tissue	% Moisture:	69.9			Date Received: 09/13/2013 1000
		6010C N	fetals (ICP)	84 . A.		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0			in the	nitial Weight/Volur	ne: 1.47 g
Analysis Date:	09/21/2013 0152			F	inal Weight/Volun	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	J FO-L	35.8		115 Y.	0.25	2.3

Client: URS Corporation

Client Sample ID:	CVR2TR3-2-T03D-PLTFAV	Ville State				
Lab Sample ID: Client Matrix:	200-18424-66 Tissue	% Moisture	e: 66.8			Date Sampled: 09/11/2013 1324 Date Received: 09/13/2013 1000
		6010C	Metais (ICP)			
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0				Initial Weight/Volu	ume: 1.32 g
Analysis Date:	09/21/2013 0159				Final Weight/Volu	ime: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifie	m MDL	RL
Molybdenum	J FD-Z	61.7		947. 947 100.	0.25	2.3

Client: URS Corporation

Client Sample ID:	CVR3TR1-1-T02N-PLTGAV	v				
Lab Sample ID: Client Matrix:	200-18424-68 Tissue	% Moisture	50.0			Date Sampled: 09/09/2013 1619 Date Received: 09/13/2013 1000
		6010C N	letals (ICP)	1000-1000 1100-1000		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0				nitial Weight/Volu	me: 1.40 g
Analysis Date:	09/21/2013 0206				Final Weight/Volu	me: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	JFD-Z	6.3			0.16	1.4

Client: URS Corporation

Client Sample ID:	CVR3TR1-2-T02N-PLTGAV	N				
Lab Sample ID: Client Matrix:	200-18424-69 Tissue	% Moisture:	54.9			Date Sampled: 09/09/2013 1708 Date Received: 09/13/2013 1000
		6010C N	letais (ICP)	· · · · · · · · · · · · · · · · · · ·		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instru	ment ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab F	ile ID:	092013-01.ttx
Dilution:	1.0			Initial	Weight/Volun	ne: 1.41 g
Analysis Date:	09/21/2013 0213			Final	Weight/Volum	ne: 100.00 mL
Prep Date:	09/19/2013 1730	a				
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL
Molybdenum	5 FD-I	9.0			0.17	1.6

Client: URS Corporation

Client Sample ID:	CVR3TR1-3-T02N-PLTGAV	V				
Lab Sample ID: Client Matrix:	200-18424-70 Tissue	% Moisture	e: 51.8			Date Sampled: 09/10/2013 1134 Date Received: 09/13/2013 1000
		6010C	Metals (ICP)	12 - S		
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx
Dilution:	1.0				nitial Weight/Volu	me: 1.47 g
Analysis Date:	09/21/2013 0219			F	inal Weight/Volur	ne: 100.00 mL
Prep Date:	09/19/2013 1730					
Analyte	DryWt Corrected: Y	Result (m	ng/Kg)	Qualifier	MDL	RL
Molybdenum	5 PD-I	7.8			0.16	1.4

Client: URS Corporation

Client Sample ID:	CVR3TR1-1-T03N-PLTFAM	V						
Lab Sample ID: Client Matrix:	200-18424-71 Tissue	% Moisture	: 65.4		Date Sampled: 09/09// Date Received: 09/13//			
		6010C I	Vietals (ICP)					
Analysis Method:	6010C	Analysis Batch:	200-61480	Instrument ID:		METICP7		
Prep Method:	3050B	Prep Batch:	200-61414	Lab File ID:		092013-01.ttx		
Dilution:	1.0				Initial Weight/Volu	ume: 1.40 g		
Analysis Date:	09/21/2013 0226				Final Weight/Volu	ume: 100.00 mL		
Prep Date:	09/19/2013 1730							
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL		
Molybdenum	J PD-I	9.4			0.23	2.1		

Client: URS Corporation

Client Sample ID:	CVR3TR1-2-T03N-PLTFAM						
Lab Sample ID: Client Matrix:	200-18424-72 Tissue	% Moisture:	69.2			Date Sampled: 09/09/2013 1655 Date Received: 09/13/2013 1000	
		6010C N	Aetais (ICP)	1910 (S#2)			
Analysis Method: Prep Method: Dilution: Analysis Date: Prep Date:	6010C 3050B 1.0 09/21/2013 0321 09/19/2013 1730	Analysis Batch: Prep Batch:	200-61480 200-61414		Instrument ID: Lab File ID: Initial Weight/Volu Final Weight/Volu	METICP7 092013-01.tbx me: 1.30 g me: 100.00 mL	
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	RL	
Molybdenum	5 F 0-I	5.9			0.28	2.5	

Client: URS Corporation

Client Sample ID:	CVR3TR1-3-T03N-PLTFAM	V					
Lab Sample ID: Client Matrix:	200-18424-73 Tissue	% Moisture	: 60.2			Date Sampled: Date Received	09/10/2013 1107 : 09/13/2013 1000
		6010C I	Vietais (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METIC	P7
Prep Method:	3050B	Prep Batch:	200-61414	4.77	Lab File ID:	09201:	3-01.ttx
Dilution:	1.0			See.	Initial Weight/Volu	me: 1.42 (
Analysis Date:	09/21/2013 0328				Final Weight/Volu	me: 100.00	mL
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (m	g/Kg)	Qualifier	MDL	R	L.
Molybdenum	J FD-Z	47.6			0.19	1.	8
Analytical Data

Client: URS Corporation

Job Number: 200-18424-4 Sdg Number: 200-18424-4

Cilent Sample ID:	EQBLK04						
Lab Sample ID:	200-18424-77					Date Sampled: 09/13/2013 0000	
Client Matrix:	Tissue	% Moisture	0.0		Date Received: 09/13/2013 1000		
		6010C N	letais (ICP)				
Analysis Method:	6010C	Analysis Batch:	200-61480		Instrument ID:	METICP7	
Prep Method:	3050B	Prep Batch:	200-61414		Lab File ID:	092013-01.ttx	
Dilution:	1.0				Initial Weight/Volur	ne: 1.00 g	
Analysis Date:	09/21/2013 0334				Final Weight/Volun	ne: 100.00 mL	
Prep Date:	09/19/2013 1730						
Analyte	DryWt Corrected: Y	Result (mg/Kg)		Qualifier	MDL	RL	
Molybdenum	Charles 2 distant of an argu-	1.0	Care a la care a	U	0.11	1.0	



Appendix F – Laboratory Data Packages are provided under separate cover.