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Draft Final RMAP Park Soil Sampling Field Sampling Plan (FSP) Submittal #2 [Covering Scown Field, Cherokee Park, Copper/ Emmet, West Side Subdivision Park, Chester Steele Park, and Cinders Field]

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June 14, 2022

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RE: Draft Final RMAP Park Soil Sampling Field Sampling Plan (FSP) Submittal #2 [Covering Scown Field, Cherokee Park, Copper/Emmet, West Side Subdivision Park, Chester Steele Park, and Cinders Field]

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to submit the Draft Final Residential Metals Abatement Program (RMAP) Park Soil Sampling Field Sampling Plan Submittal #2, which addresses soil sampling at Scown Field, Cherokee Park, Copper/Emmet, West Side Subdivision Park, Chester Steele Park, and Cinders Field under the RMAP program. The report, tables, and figures may be downloaded at the following link:

https://pioneertechnicalservices.sharepoint.com/:f:/s/submitted/EvkjR3SzbVVPjn1CFZGwVOoBJwL78cbxvIra3HLunR1RUA.

If you have any questions or comments, please call me at (907) 355-3914.

Sincerely,

Mike Mednulty

Mike Mc Anulty Liability Manager Remediation Management Services Company An affiliate of **Atlantic Richfield Company**



Atlantic Richfield Company

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Harley Harris / NRDP - email

Katherine Hausrath / NRDP - email

Meranda Flugge / NRDP - email

Ted Duaime / MBMG - email

Gary Icopini / MBMG - email

Becky Summerville / MR - email

Kristen Stevens / UP - email

Robert Bylsma / UP - email

John Gilmour / Kelley Drye - email

Leo Berry / BNSF - email

Robert Lowry / BNSF - email

Brooke Kuhl / BNSF – email

Mark Engdahl / BNSF - email

Jeremie Maehr / Kennedy Jenks - email

Annika Silverman / Kennedy Jenks - email

Matthew Mavrinac / RARUS - email

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Scott Juskiewicz / Montana Tech – email

File: MiningSharePoint@bp.com - email

BPSOU SharePoint - upload

SILVER BOW CREEK/BUTTE AREA NPL SITE BUTTE PRIORITY SOILS OPERABLE UNIT

Draft Final

2022 Residential Metals Abatement Program (RMAP)
Park Soil Sampling Field Sampling Plan (FSP)
Submittal #2
[Covering Scown Field, Cherokee Park, Copper/Emmet,
West Side Subdivision Park, Chester Steele Park, and
Cinders Field]

Butte-Silver Bow County

and

Atlantic Richfield Company

SILVER BOW CREEK/BUTTE AREA NPL SITE BUTTE PRIORITY SOILS OPERABLE UNIT

Draft Final

2022 Residential Metals Abatement Program (RMAP)
Park Soil Sampling Field Sampling Plan (FSP)
Submittal #2
[Covering Scown Field, Cherokee Park, Copper/Emmet,
West Side Subdivision Park, Chester Steele Park, and
Cinders Field]

Prepared for:

Butte-Silver Bow County
Superfund Division
155 W. Granite
Butte, Montana 59701

and

Atlantic Richfield Company 317 Anaconda Road Butte, Montana 59701

Prepared by:

Pioneer Technical Services, Inc. 1101 S. Montana Street Butte, Montana 59701

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LIST OF ATTACHMENTS

Attachment A Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP) (Non-Residential Parcels)

DOCUMENT MODIFICATION SUMMARY

Modification Author		Version	Description	Date
0	Jesse Schwarzrock	Draft Final	Issued for Agency Review	06/14/22

1.0 INTRODUCTION

This Field Sampling Plan (FSP) was developed to outline a portion of the 2022 Residential Metals Abatement Program (RMAP) park/play area soil sampling plan for Butte, Montana, area parks. Soil sampling procedures, data quality objectives, standard operating procedures, sampling analytical methods, sampling equipment, quality control (QC) samples, and data validation and assessment will be according to the *Final Residential Metals Abatement Program* (RMAP) Quality Assurance Project Plan (QAPP) (Non-Residential Parcels) (Butte-Silver Bow County and Atlantic Richfield Company, 2022) (referred to herein as QAPP), provided in Attachment A.

2.0 PARK SOIL SAMPLING SCOPE

The scope of work covered by this FSP includes the following parks:

- Scown Field.
- Cherokee Park.
- Copper/Emmet.
- West Side Subdivision Park.
- Chester Steele Park.
- Cinders Field.

The attached figure set (Figure 1 through Figure 6) depicts the areas to be sampled and shows the individual sampling polygons and associated areas. Table 1 lists the park properties (along with Resident ID's, geocodes, and ownership information), and Table 2 shows the anticipated sampling quantities for the parks covered by this FSP.

3.0 PARK SOIL SAMPLING SCHEDULE

Sampling schedules will be finalized through ongoing conversations with appropriate representatives. Pending Agency approvals, sampling efforts will begin in June 2022. The appropriate utility locating service (i.e., One Call Utility Locate Services) will be contacted and informed of sampling activities 48 hours prior to commencing soil sampling activities.

4.0 FIELD SAMPLING PLAN

4.1 Soil Sampling Procedures

Soil sampling procedures will be completed as stated in Section 3.2 (for composite sampling) and Section 3.3 (for incremental sampling) of the QAPP (Attachment A).

4.1.1 Soil Sampling Density, Location, and Compositing

Soil sampling density, location, and compositing decisions will be made according to the information provided in Section 3.2.1 (for composite sampling) and Section 3.3.1 (for incremental sampling) of the QAPP (Attachment A).

4.1.2 Soil Sampling Depths

Sampling depths will be selected as stated in Section 3.2.2 (for composite sampling) and Section 3.3.2 (for incremental sampling) of the QAPP (Attachment A).

4.1.3 Equipment Decontamination

Reusable sampling equipment will be decontaminated as described in Section 3.2.4 (for composite sampling) and Section 3.3.4 (for incremental sampling) of the QAPP (Attachment A).

4.2 Sampling Polygon Delineation

The reasoning behind the delineation of sampling polygons is documented below. This information was collected from BSB representatives as well as site visits. Field sampling crews will have the flexibility to make minor modifications to these polygons in the field as needed (e.g., if crews discover a garden area that was not previously delineated, they will have the ability to add it to the plan and sample accordingly) in consultation with the Agencies' field representative.

4.2.1 Scown Field

- Land Use Category #1 (playgrounds) This land use category is not applicable at this park.
- Land Use Category #2 (high access areas/barren sports areas) The ballpark infield area is a combination of aggregate and grass cover. Given that most of the area is aggregate and the high use of this area, the entire area has been designated a high access area. Based on its area, it will be sampled as two separate high access sampling polygons.

The area upgradient of and surrounding the ballpark consists of unmaintained vegetation areas. Due to its proximity to the ballpark, it has also been designated as a high access area. Based on the total area, it has been split into three separate high access sampling polygons.

Lastly, there is an aggregate covered bullpen area in the southwest corner of the site, which has also been designated a high access area and will be sampled separately as a high access sampling polygon.

Each high access polygon will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).

• Land Use Category #3 (grass areas/turf covered sports fields) – The ballpark has one continuous, irrigated lawn area that consists of the ballpark outfield. Due to its consistent land use and maintained nature, this area has been designated as a grass sampling area that will be sampled per the incremental sampling methodology (ISM) detailed in Section 3.3 of the QAPP (Attachment A).

- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.

4.2.2 Cherokee Park

- Land Use Category #1 (playgrounds) Cherokee Park has three separate playground areas. Each will be sampled separately per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park (minus the playgrounds) is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.

4.2.3 Copper/Emmet

- Land Use Category #1 (playgrounds) The Copper/Emmet Park has one playground area. It will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park (minus the playground) is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.

4.2.4 West Side Subdivision Park

- Land Use Category #1 (playgrounds) The West Side Subdivision Park has two playground areas. Each will be sampled separately per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park (minus the playgrounds) is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.

4.2.5 Chester Steele Park

- Land Use Category #1 (playgrounds) The Chester Steele Park has one playground area. It will be sampled per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).
- Land Use Category #2 (high access areas/barren sports areas) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park (minus the playground and opportunistic sampling area) is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.
- Opportunistic Sampling there is a small, exposed aggregate area directly west of the splash pad along South Alabama Street. Due to the exposed soil and proximity to the splash pad, it has been designated as an opportunistic sampling area and will be sampled separately per the composite sampling methodology detailed in Section 3.2 of the QAPP (Attachment A).

4.2.6 Cinders Field

- Land Use Category #1 (playgrounds) This land use category is not applicable at this park.
- Land Use Category #2 (high access areas/barren sports areas) This land use category is not applicable at this park.
- Land Use Category #3 (grass areas/turf covered sports fields) The entire park is an established/maintained lawn area. Due to its consistent land use and well-maintained nature, this area has been designated as a grass sampling area that will be sampled per the ISM logic detailed in Section 3.3 of the QAPP (Attachment A).
- Land Use Category #4 (low access areas/low maintenance areas) This land use category is not applicable at this park.
- Land Use Category #5 (garden areas) This land use category is not applicable at this park.

4.3 Deviations

This section addresses any deviations to the Agencies-approved QAPP (Attachment A) pertaining to 2022 BPSOU RMAP park soil sampling in or near Butte. Deviations include the following:

- No known deviations at this time.
- Any future deviations will be discussed with the Agencies' field representative, documented in the field, and addressed through forthcoming Data Summary Reports.

5.0 LABORATORY METHODS

5.1 Soil Metals Analyses Methods

Soil metals analyses will be conducted as stated in Section 3.6 of the QAPP (Attachment A).

6.0 QUALITY CONTROL

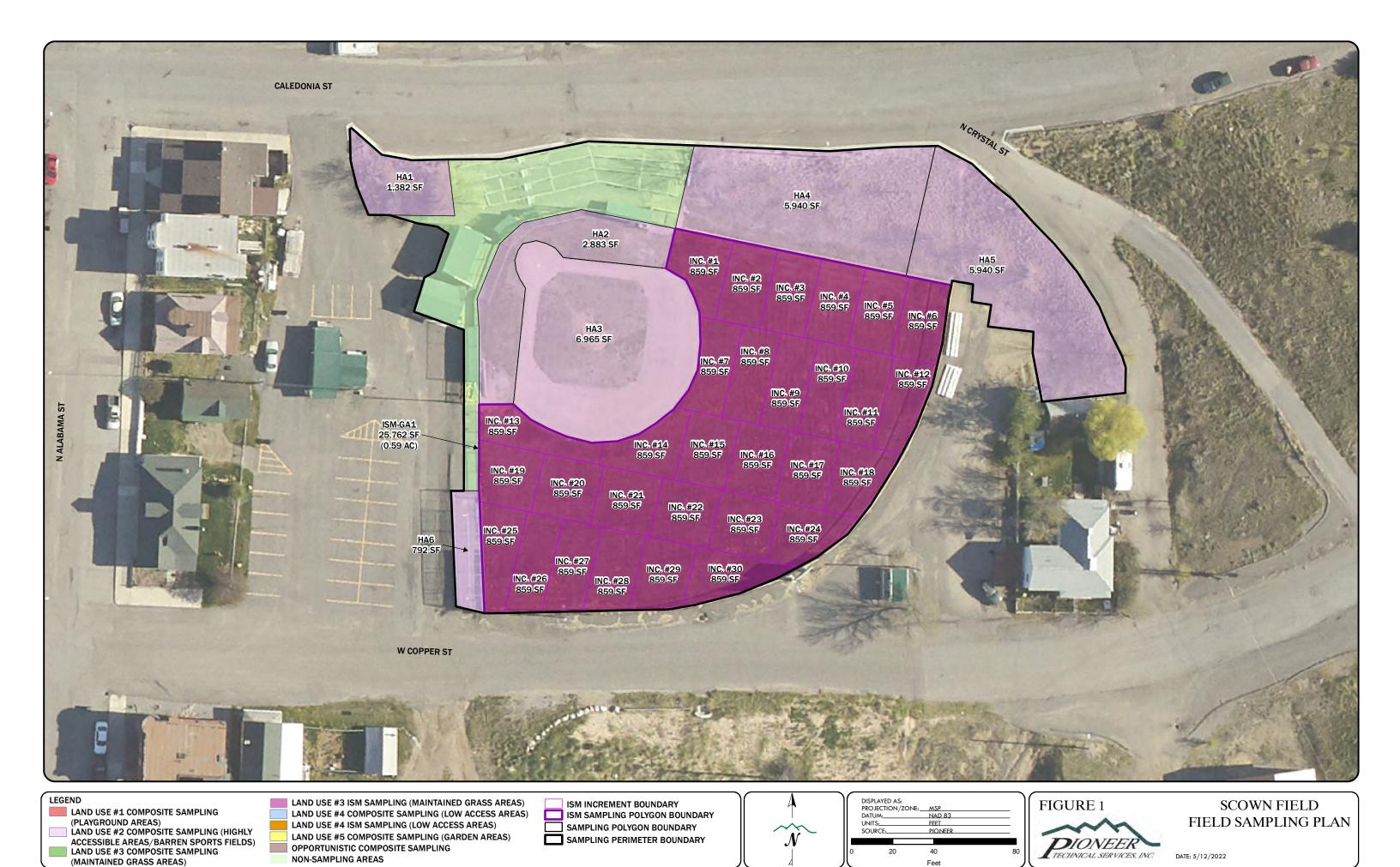
6.1 Field Quality Control Samples

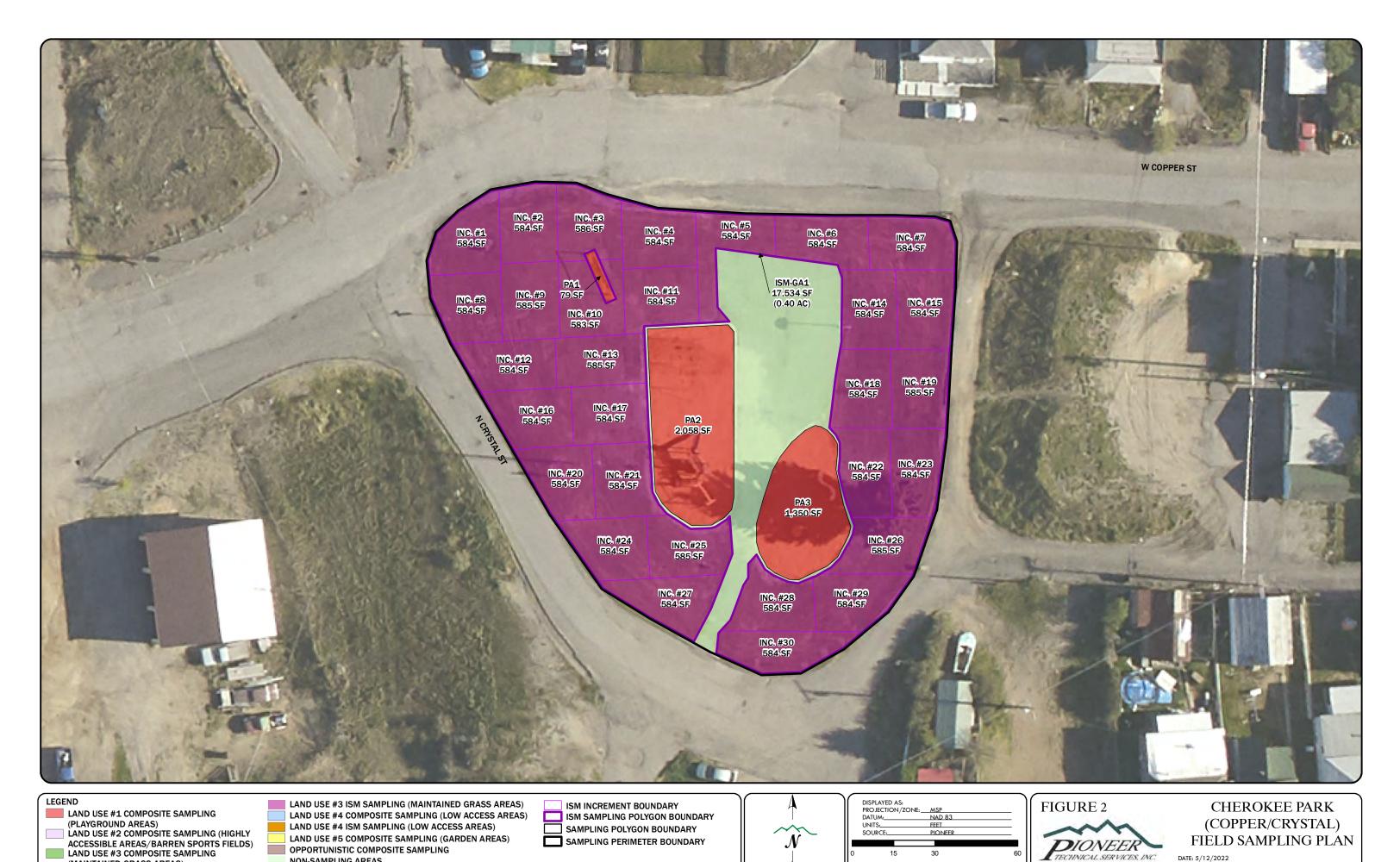
Field QC will be conducted as stated in Sections 3.7 and 3.7.1 of the QAPP (Attachment A).

7.0 REFERENCES

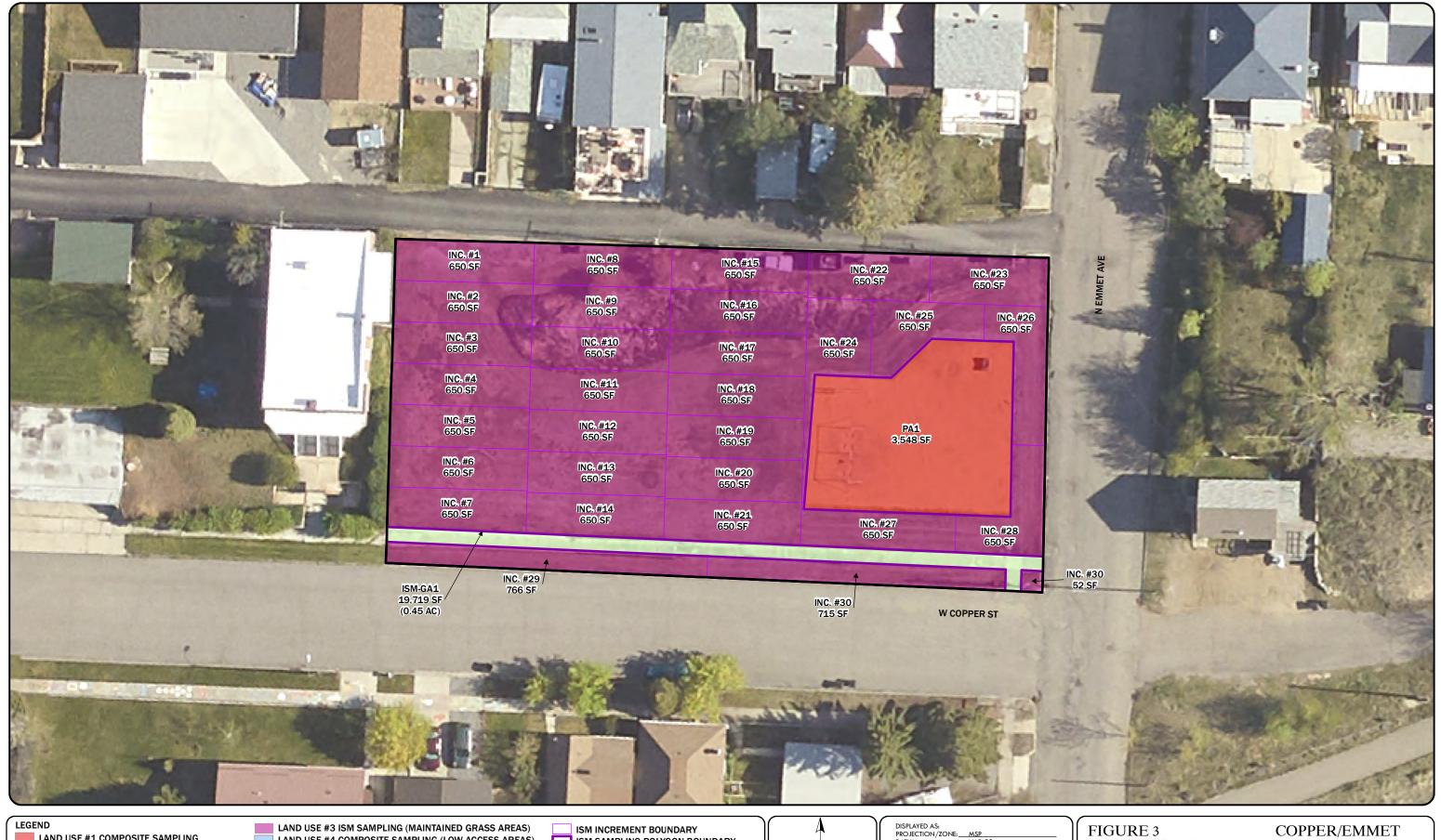
Butte-Silver Bow County and Atlantic Richfield Company, 2022. Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Residential Metals Abatement Program (RMAP) Quality Assurance Project Plan (QAPP). May 2022.

FIGURES







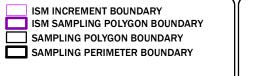


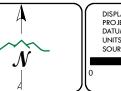


LAND USE #4 COMPOSITE SAMPLING (LOW ACCESS AREAS) LAND USE #4 ISM SAMPLING (LOW ACCESS AREAS)

LAND USE #5 COMPOSITE SAMPLING (GARDEN AREAS) OPPORTUNISTIC COMPOSITE SAMPLING

NON-SAMPLING AREAS



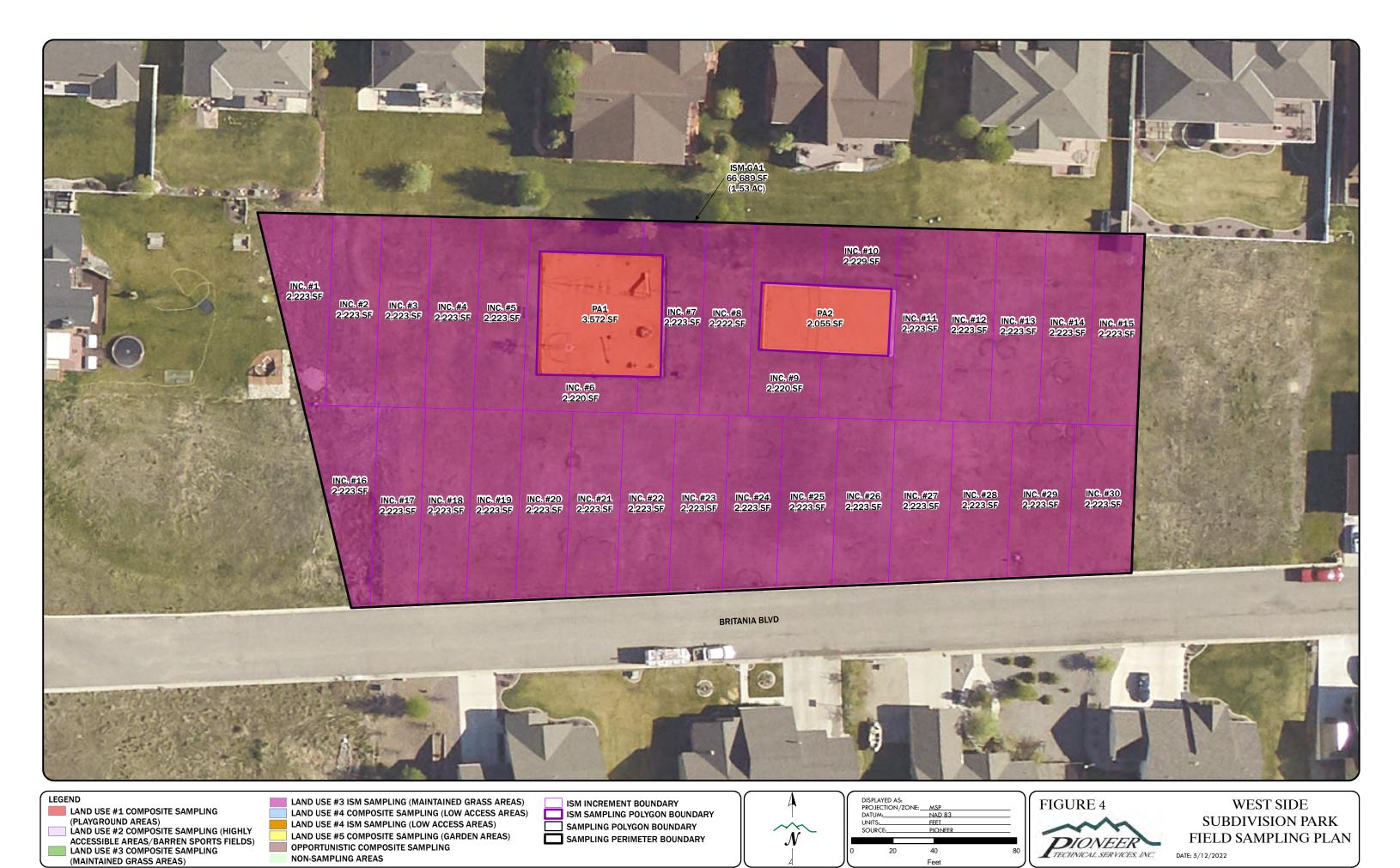


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FIELD SAMPLING PLAN

DATE: 5/12/2022





TECHNICAL SERVICES, INC.

DATE: 5/12/2022

LAND USE #3 COMPOSITE SAMPLING

(MAINTAINED GRASS AREAS)

OPPORTUNISTIC COMPOSITE SAMPLING

NON-SAMPLING AREAS



DATE: 5/12/2022

NON-SAMPLING AREAS

TABLES

TABLE 1: 2022 RMAP PARK SOIL SAMPLING PROPERTY LIST (FSP Submittal #2)

Count	Res-ID	Geocode	Name	Owner
1	P-0007	01119713250010000	Scown Field	BSB
2	P-0008	01119713242120000	Cherokee Park	BSB
3	P-0009	01119714134150000	Copper/Emmet	BSB
4	P-0010	01119714401196500	West Side Subdivision Park	BSB
5	P-0011	01119713365016500	Chester Steele Park	BSB
6	P-0012	01119713365980000	Cinders Field	BSB

TABLE 2: 2022 RMAP PARK SOIL SAMPLING QUANTITY SUMMARY (FSP Submittal #2)

											(FSP Submitte	al #2)												
									Land Use #1	Land Use #2	Land Use #3	Land Use #4	Land Use #5	Opportunistic	# of Subsample									
				Total Area		Type Sampling		Non Sampling	Playgrounds	High Access	Grass Areas	Low Access	Gardens	Sample Areas	Locations/	# of				2-12"				
Figure #	Res-ID	School/Park	Owner	(SF)	Polygon ID	(Composite or ISM)		Areas (SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Increments	Samples	0-2"	2-6"	6-12"	(ISM Only)	12-18"	18-24"	Notes	
					HA1	Composite	1,382			1,382					3	3	As/Pb/Hg		As/Pb/Hg	-	-	-	-	
					HA2	Composite	2,883			2,883					5	3	As/Pb/Hg		As/Pb/Hg	-	-	-	-	
					HA3 HA4	Composite	6,965 5.940			6,965 5,940					12 10	3	As/Pb/Hg		As/Pb/Hg	-	-	-	-	
					HA5	Composite Composite	5,940			5,940					10	3	As/Pb/Hg As/Pb/Hg	As/Pb/Hg As/Pb/Hg	As/Pb/Hg As/Pb/Hg	-	-	-		
1	P-0007	Scown Field	BSB	49,664	HA6	Composite	792			792					3	3	As/Pb/Hg As/Pb/Hg	As/Pb/Hg As/Pb/Hg	As/Pb/Hg	-	-	-		
					GA1 (Replicate #1)	ISM	732			732					30	2	As/Pb/Hg	- A3/FD/TIG	- A3/FD/TIG	As/Pb/Hg	-	-	_	
					GA1 (Replicate #2)	ISM	25,762				25,762				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	_	
					GA1 (Replicate #3)	ISM	23,702				25,702				30	2	As/Pb/Hg	-	-	As/Pb/Hg As/Pb/Hg	-	-		
					Non Sampling Areas	-	0	0							-	-		-	-		-	-	1_	
					PA1	Composite	79		79						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
				24,636		PA2	Composite	2,058		2.058						4	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	_
					PA3	Composite	1,350		1,350						3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
2	P-0008	Cherokee Park	BSB		GA1 (Replicate #1)	ISM	,		·						30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					GA1 (Replicate #2)	ISM	17,534			17,534	17,534				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					GA1 (Replicate #3)	ISM					1 '				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					Non Sampling Areas		3,615	3,615							-	-	-	-	-	-	-	-	-	
					PA1	Composite	3,548		3,548						6	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					GA1 (Replicate #1)	· .									30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
3	P-0009	Copper/Emmet	BSB	24,411	GA1 (Replicate #2)		19,719				19,719	19,719				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-
					GA1 (Replicate #3)	ISM									30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
					Non Sampling Areas	-	1,144	1,144							-	-	-	-	-	-	-	-	-	
			BSB		PA1	Composite	3,572		3,572						6	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
					PA2	Composite	2,055		2,055						4	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-	-	
4	P-0010	West Side Subdivision Park		72,316	GA1 (Replicate #1)										30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
		West side Subdivision Fair		72,310	GA1 (Replicate #2)	ISM	66,689				66,689				30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	-	
	1				GA1 (Replicate #3)	ISM			-		-	-			30	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-	1-	
					Non Sampling Areas	-	0	0	5.603						-	-	- A - /DI- /III -	-	- A - /DI- /III-	-	-	-	-	
					PA1	Composite	5,683		5,683					75	10	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	-	-	-		
					OP1	Composite	75							75	3	3	As/Pb/Hg	As/Pb/Hg	As/Pb/Hg	- A = /Dl= /Ll=	-	-		
5	P-0011	Chester Steele Park	BSB	222,945	GA1 (Replicate #1) GA1 (Replicate #2)	ISM ISM	201 749				201 749				46 46	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-		
					- (-, ,	ISM	201,748				201,748				46	2	As/Pb/Hg	-	-	As/Pb/Hg	-	-		
					GA1 (Replicate #3)	ISMI -	15,439	15,439							46	-	As/Pb/Hg -	-	-	As/Pb/Hg -	-	-	-	
					Non Sampling Areas GA1 (Replicate #1)	ISM	15,439	15,439							30	2	As/Pb/Hg	-	-	- As/Pb/Hg	-	-		
	1			110,299	GA1 (Replicate #1)	ISM	104,293		1		104,293				30	2	As/Pb/Hg As/Pb/Hg	-	-	As/Pb/Hg As/Pb/Hg	-		1	
6	P-0012	Cinders Field	BSB		GA1 (Replicate #2)	ISM	104,233	<u> </u>	 		104,233	<u> </u>			30	2	As/Pb/Hg As/Pb/Hg	-	-	As/Pb/Hg As/Pb/Hg	-	-	1_	
	1				Non Sampling Areas	-	6,006	6,006	 		 	 			-	-	AS/PD/FIG	-	-	AS/PU/FIG	-	-	1_	
	1	1	Totals (SF):	504.271		-	504.271	26.204	18,345	23.902	435.745	0	0	75	670	78	-	<u> </u>	-	-	-	-	1	
			Totals (AC):	11.58	-		11.58	0.60	0.42	0.55	10.00	0.00	0.00	0.00	0,0	,,	_							
			rotais (AC).	11.30	-		11.50	0.00	0.42	0.33	10.00	0.00	0.00	0.00										

ATTACHMENT A FINAL RMAP QAPP (NON-RESIDENTIAL PARCELS)

The Agencies are currently reviewing the Draft Final 2022 RMAP QAPP (Non-Residential Parcels) dated 6-13-22. The final approved version of the QAPP will be inserted into this FSP once both documents have obtained Agency approval.