PHASE 2 PHYSICAL HAZARDS MITIGATION FORMER ABANDONED URANIUM MINE SITES SMITH LAKE AND MARIANO LAKE CHAPTERS, MCKINLEY COUNTY, NEW MEXICO

JUNE 2018



BLACK JACK NO. 1

BLACK JACK NO. 2





Prepared for:







MAC NO. 2

Prepared by:



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iiná bá Project No.: 17-001-03

PHASE 2 PHYSICAL HAZARDS MITIGATION

FORMER ABANDONED URANIUM MINE SITES SMITH LAKE AND MARIANO LAKE CHAPTERS, MCKINLEY COUNTY, NEW MEXICO

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PHASE 2 PHYSICAL HAZARDS MITIGATION

FORMER ABANDONED URANIUM MINE SITES SMITH LAKE AND MARIANO LAKE CHAPTERS, MCKINLEY COUNTY, NEW MEXICO

LIST OF ACRONYMS

AOC	Agreement and Order on Consent
CFR	Code of Federal Regulations
CPG	Certified Professional Geologist
су	cubic yards
GPS	global positioning system
(HL)	hole
НМС	Homestake Mining Company
Inc.	Incorporated
LLC	Limited Liability Company
MI	mine shaft
NAML	Navajo Abandoned Mine Lands
NNEPA	Navajo Nation Environmental Protection Agency
No.	number
NV	North Vent
ОН	open hole
PPE	personal protective equipment
PHA	Physical Hazards Mitigation
Psi	pounds per square inch
SOW	Scope of Work
USEPA	United States Environmental Protection Agency
WCA	Water Code Administration
	CFR CPG cy GPS (HL) HMC Inc. LLC MI NAML NNEPA NO. NV OH PPE PHA PSi SOW USEPA

PHASE 2 PHYSICAL HAZARDS MITIGATION

FORMER ABANDONED URANIUM MINE SITES SMITH LAKE AND MARIANO LAKE CHAPTERS, MCKINLEY COUNTY, NEW MEXICO

1.0 INTRODUCTION

Homestake Mining Company (HMC) of California, in concert with the United States Environmental Protection Agency (USEPA) Region 9; the Navajo Nation Environmental Protection Agency (NNEPA), and the Navajo Abandoned Mine Lands (NAML) Reclamation Department, requested, under Purchase Order No. 111011/O, the performance of Phase 2 *Physical Hazards Mitigation* (PHM) at the former Black Jack Nos. 1 & 2 and MAC Nos. 1 & 2 mine sites in accordance with the *Administrative Settlement Agreement and Order on Consent* (AOC), dated August 27, 2014, and the *iiná bá*, Inc. (*iiná bá*) *Cost Proposal for Site Hazards Mitigation on Abandoned Uranium Mine Lands* dated November 2017. The location of the subject sites is shown on **Figure 1 in Appendix 1**, with their relationship to the Smith Lake Chapter and the Mariano Lake Chapter.

1.1 Purpose and Intent

The purpose of this effort was to:

Mitigate (eliminate or remove) physical hazards at the former mine sites to make the subject sites safer from significant harm in the event human interaction occurs.

The intent of this effort was to:

Perform hazard mitigation measures to be in compliance with or in accordance with mandates specified under the AOC between HMC and the USEPA.

1.2 Site History

Black Jack No. 1

Black Jack No. 1 is a closed underground uranium mine located in the Northeast 1/4 of the Northeast 1/4 of the Southwest 1/4 of Section 12, Township 15 North, Range 13 West, in McKinley County, New Mexico. The mine workings consisted



of an 825-foot, three-compartment shaft with multiple drifts. The mine was operated from 1959 through 1967, although uranium deliveries from the mine continued until 1971. In total, the mine produced approximately 1.44 million tons of ore yielding approximately 6,447,000 pounds of uranium concentrate. Mining operations ceased on June 30, 1967. In July 1967, the vent holes and mine shaft were sealed with half-inch steel plates, which were welded in place.

Black Jack No. 2

Black Jack No. 2 is a closed underground uranium mine located in the Northwest 1/4 of Section 18, Township 15 North, Range 13 West, in McKinley County, New Mexico. The mine workings consisted of a 330-foot vertical shaft with drifts. The mine was operated from 1960 through 1964, although uranium deliveries from the mine continued until 1970. Upon information and belief, deliveries from 1964 (after closure) through 1970 were from ore stockpiles, not the resumption of mining at Black Jack No. 2. In total, the mine produced 247,613 tons of ore yielding 1,129,004 pounds of uranium concentrate. In August 1964, Homestake-Sapin Partners requested permission from the United States Department of the Interior to extract the shaft pillars, backfill the shaft and seal the mine. After the United States Department of the Interior granted such permission in August 1964, the shaft pillars were extracted, the shaft was backfilled and the mine's vent holes and shaft were sealed with half-inch steel plates. Subsequently, the mine shaft was covered with a concrete slab.

MAC No. 1

Mac No. 1 is a closed underground uranium mine located in the Northeast 1/4 of the Southeast 1/4 of Section 12, Township 15 North, Range 14 West, in McKinley County, New Mexico. The mine workings consisted of a 515-foot vertical shaft with two levels. The mine was operated from 1968 through April 1971, although uranium deliveries from the mine continued until 1979 or 1980. Upon information and belief, deliveries from 1971 (after closure) through 1979 or 1980 were from ore stockpiles, not the resumption of mining at Mac No. 1. In total, the mine produced approximately 400,000 pounds of uranium concentrate. The mine was closed in 1971, and the shaft was backfilled and covered with a concrete slab.

MAC No. 2

Mac No. 2 is a closed underground uranium mine located in the Northeast 1/4 of the Southeast 1/4 of the Southeast 1/4 of Section 18, Township 15 North, Range 13 West, in McKinley County, New Mexico. The mine workings consisted of a 288-foot vertical shaft with multiple drifts. The mine was operated from 1968 through 1970. In total, the mine produced 31,194 tons of ore yielding 109,009 pounds of uranium concentrate. The mine was closed in 1970, and the shaft was backfilled and concreted over.

1.3 Current Site Characteristics

Currently, all four (4) sites are abandoned with only certain physical features remaining as the result of past mining operations and site occupation. The following summarizes the general features remaining on the subject sites that were a part of this hazards mitigation:

- Former mine shafts;
- Former mine vents;
- Former utility raises;
- Concrete slabs;
- Former utility infrastructures (including water wells/septic tanks and diversion ditches);
- Former (abandoned) mine buildings; and,
- Miscellaneous open holes.

The primary mine site features mitigated under this PHM were obtained from documentation contained within a *Phase 2 Physical Hazards Assessment*, conducted by *iiná bá* (November 2017)

1.4 Clearances, Notifications, and Permits

Prior to the performance of this hazards mitigation, notification was given to the Smith Lake Chapter house before entering the subject properties. Access to the subject properties was in place prior to performing this effort through notification letters with the



allotees. The USEPA and NNEPA were notified in advance of the proposed field schedule for data collection and granted approval to proceed with the effort via e-mail on Thursday, November 16, 2017. No other clearances or permits were required to perform the subject effort since no intrusive (ground disturbing) activities were to be performed.

1.5 Health and Safety

The work performed under this effort was conducted in Level D personal protective equipment (PPE). A First Aid kit and fire extinguisher were in the support vehicle during the performance of mitigation activities. Daily *Job Site Safety Meeting Forms* were prepared prior to each mitigation activity. Copies of these forms are included in **Appendix 4**.



2.0 HAZARDS MITIGATION ACTIVITIES

2.1 Basis for Hazards Mitigation

The basis for this PHM is in accordance with the AOC between HMC and the USEPA. Per the *Scope of Work* (SOW) in *Appendix A* of the AOC, the following "areas" were to be addressed:

- Open holes related to the Sites; and,
- > Exploratory holes within the Sites.

The SOW further states under Section 4.2, paragraph 4.2.1 that all vent holes, openings and other surface features related to a mine that pose a physical threat to humans or animals must be assessed.

2.2 Physical Hazards Definition

Based on the intent of the AOC and SOW, the mitigation of "physical threats" (hazards) is to be performed at the subject sites. With regards to the *Occupational Safety and Health Administration* (29 CFR 1910.120), there are several major categories associated when performing a *Hazard Determination*, which this effort is, in part, intended to meet on a limited basis. A *Hazard Determination* focuses on many hazard types that can include:

- Physical hazards (fire hazards, reactive hazards, explosion hazards, bodily injury);
- Health hazards; and;
- Ionizing hazards.

To meet the intent of the AOC and SOW, this effort focused on only the physical hazard category. Any health-related hazards or ionizing (radiation) hazards associated with the remaining mine site features will be assessed under Phase 3 activities – the removal site evaluation. For purposes of this PHM, the following definition for "Hazard Determination" was used when evaluating an existing mine surface feature:

"a hazard that is an actual or potential cause or source of serious harm."

Serious harm can further be defined or understood to be:



- > Any harm that results in hospitalization;
- Broken bones (fractures), lacerations, or crushing;
- Amputation of body part;
- Loss of vision or penetrating eye wound; or,
- Permanent loss of bodily function or temporary severe loss of bodily function.

It should be noted that the evaluation of a significant physical hazard is not based on any perceived level of risk or any level of probability that in injury will occur. The assessment of risk is entirely separate from determining the level or severity of a physical hazard. All significant physical hazards are judged the same with regards to this effort. The probability of whether one hazard is likely to occur vs. another hazard is dependent upon many factors, which are not considered for this PHM.

2.3 Physical Hazard Mitigation Activities

Physical hazards were mitigated in phases in according to the following sequence of activities:

- 1. Removal of sharp metal objects or protrusions;
- 2. Infilling, capping, covering of open pits or holes;
- 3. Fencing of sharp physical objects that cannot be removed; and,
- 4. Installation of physical hazard mitigation signage.

Table 1 in Appendix 2 summarizes the specific physical hazards mitigated during thiseffort and photographs depicting the mitigation methods and final results are included inAppendix 3. The following sections summarize the mitigation methods conducted.

2.3.1 Mitigation of Sharp Metal Objects

Mine site features with sharp metal edges or protrusions that could result in a significant puncture injury were mitigated by cutting the features flush with a surrounding level surface such as a concrete slab or ground surface using a reciprocating saw, cutting wheel, or acetylene cutting torch. These features were removed from the four (4) mine sites between Tuesday and Wednesday, November 28 and 29, 2017 and on Saturday, December 2, 2017. Photographs of the hazards during and after the mitigation efforts are included in **Appendix 3**.



2.3.2 Mitigation of Open Pits and Holes

Mine site features consisting of subsided or open holes that could result in a significant fall injury were mitigated by covering/filling the holes with native soils or filling with flowable fill from a commercial off-site source. These features were mitigated from the four (4) mine sites on Thursday, November 30, Monday, December 4 and Tuesday, December 5, 2017. The Open Hole (HL) and Utility Raise U4 at Black Jack No. 1, and Utility Raise U3 at Black Jack No. 2 were sealed using a 6" diameter inflatable hole packer inflated to approximately 30 pounds per square inch (psi). Photographs of the installed packer are included in Appendix 3. The subsidence at North Vent Shaft (NV) at Black Jack No. 1 and partially buried mine shaft at MAC No. 2 were mitigated by moving native soils mounded around the steel vent shafts using a John Deere 328E skid-steer in to the subsided area and compacting the soils in place until the original grade was restored (see Appendix 3). The open pits in the floor of the concrete slab of the Hoist House at Black Jack No. 1 and the subsided mine shaft (MI) at Black Jack No. 2 were filled with a flowable fill mixture provided by Michele's Ready Mix of Gallup, New Mexico. A total of 90 cubic yards (cy) of fill were required to mitigate these features (see Delivery Tickets in Appendix 4). The Open Holes (OH1 and OH2) at MAC No. 2 were filled using native soils from the area surrounding the holes to land surface and compacted in place (see Appendix 3).

2.3.3 Mitigation of Sharp Metal Debris

The mine waste (Debris) pile located at MAC No. 2 was mitigated from potential exposure by installing a chain-link fence around the debris until its final determination on disposal is made. On Monday, December 11, Wednesday, December 13, and Friday, December 15, 2017, a total of 150 lineal feet of chain-link fencing was installed at the subject site. A six-foot fence with corner posts and top-rail was installed by auguring a hole into overburden soils using a John Deere 329E skid-steer with auger attachment. Concrete mix was prepared onsite with a portable mixer to set the line poles. The fence was installed after



24-hours of curing time to complete the fence around the subject hazard. Photographs of the fencing mitigation effort are included in **Appendix 3**.

2.3.4 Installation of Mitigation Signage

A total of 40 hazard warning signs (see **Appendix 4**) were installed across the four (4) mine sites between Monday, January 29 and Wednesday, January 31, 2018. Each sign was mounted to a six-foot "T"-post driven into native soils using a T-post driver. Sheet metal screws were used to attach each sign to a post at a location designated by the USEPA and Homestake based on the outline of impacted soil areas as depicted on **Figures 6 to 8** in **Appendix 1**. Four (4) biological hazard warning signs were installed on the two (2) steel buildings located at the MAC No. 1 mine site. A sign was installed using sheet metal screws to each main entry point to the Service Building (B1) and the Hoist House (B2). Photographs of the signs and installation process are included in **Appendix 3**. **Table 2** in **Appendix 2** summarizes the coordinates (State Plane and Latitude/Longitude) for all 40 signs installed.

2.3.5 Installation of Additional Fencing

At the request of Mr. Jacob Phipps with the USEPA, the filled Mine Shaft (MI) feature at Black Jack No. 2 was secured with a permanent chain-link fence on Thursday, June 7, 2018. A total of 120 lineal feet of chain-link fencing was installed at the subject site. A six-foot fence with corner posts and top-rail was installed by hand into overburden soils using a post-hole digger. Concrete mix was prepared onsite with potable water. As an additional note, the filled shaft feature with flowable fill was still intact and at the same elevation as when it was put in place in December 2017. Photographs of the fencing mitigation effort are included in **Appendix 3**.

3.0 HAZARDS MITIGATION RESULTS

The following summarizes the statistics related to the mitigation of physical site hazards at the Black Jack No. 1, Black Jack No. 2, MAC No. 1 and MAC No. 2.

- Significant physical hazards related to sharp or protruding metal features were mitigated in three (3) working days;
- Significant physical hazards related to open holes, shafts, or pits were mitigated in three (3) working days;
- A total of 90 cubic yards of flowable fill were required to mitigate open or partially open vent/mine shafts;
- A total of 270 lineal feet of chain-link fencing was installed to mitigate sharp metal debris and filled mine shaft features in four (4) working days; and,
- A total of 40 hazard warning signs (and four biohazard warning signs) were installed as part of the hazard mitigation effort in three (3) working days.



4.0 HAZARD MITIGATION CONCLUSIONS

Based on the results from the Phase 2 Physical Hazards Mitigation conducted at the four (4) subject mine site locations, the following conclusions were drawn:

- The mitigation measures implemented as part of this Hazard Mitigations were implemented in accordance with the AOC and SOW and are in compliance with the intent of the AOC and SOW; and,
- The subject mine sites are free from the recognized significant physical hazards related to past mine activities that are protective of human health and the environment.



Water & Wastewater & Solid Waste & Roads & Stormwater & Subdivisions & Surveying & GIS



APPENDIX 1 — FIGURES PHASE 2 HAZARDS MITIGATION REPORT Former Black Jack Nos. 1 & 2, and MAC Nos. 1 & 2 Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico



PURCHASE ORDER NO. 111010/0





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Hydrology Air Quality ESA Soil Investigations SPCC Water Rights LUST





SOURCE:	GOOGLE EARTH IMAGE (2016	,)
CON	TOUR INTERVAL = 20 FEET	

4,270 8,540 FEET 0

FIGURE 1: SITE LOCA



Google E







Lake Smith Lake i Hetheida Navajo

SOURCE: GOOGLE EARTH IMAGE (10/62016)

UTILITY RAISE (U1) SOUTH VENT SHAFT (SV)

OPEN HOLE (HL)

CONCRETE SLAB (S3) **CONCRETE SLAB (S2)** CONCRETE SLAB (S1) UTILITY RAISE (U5) UTILITY RAISE (U2) **CONCRETE SLAB (S10)**

CONCRETE SLAB (S4)

ORE PAD/SLAB

CONCRETE SLAB (WINDMILL)

BURIED MINE SHAFT

CONCRETE SLAB (S5) SEPTIC TANK (ST)

CONCRETE SLAB (S8)

VENT SHAFT (CENTRAL)

WASTE ROCK PILE

CONCRETE SLAB (S9)

UTILITY RAISE (U3)

CONCRETE SLAB (HOIST HOUSE)

CONCRETE SLAB (S6) CONCRETE SLAB (S7)

ORE PAD

NORTH VENT SHAFT (NV)

UTILITY RAISE (U4)



POWDER MAGAZINE

DIVERSION CHANNEL

SOUTH VENT SHAFT

UTILITY RAISE (U1) UTILITY RAISE (U2) CONCRETE SLAB (S2) CONCRETE SLAB (S3) CONCRETE SLAB (S1) HOIST HOUSE MINE SHAFT (MI)



SOURCE: GOOGLE EARTH IMAGE (10/62016)

0 230 460 FEET

FIGURE 3: HAZARDS LO

Google E

PTIC TANK (ST)

CONCRETE SLAB (S5) CONCRETE SLAB (S4) CONCRETE SLAB (S3) CONCRETE SLAB (S2) CONCRETE SLAB (S1)

) PARTIALLY BURIED MINE SHAFT

RE PILE (OP)

WASTE ROCK PILE (WP)

Lake Smith Lake Retricted Namp Minion

SOURCE: GOOGLE EARTH IMAGE (10/6/2016)



FIGURE 4: ZARDS LO

Google E

E WASTE (DEL (W3)			
E (OH1)	OPEN HOLE (OH2)		
		MINE WASTE PILE (W1)	
	CONCRETE SLAB (S5)		
		DEBRIS PILE (DP)	
Sugar States	MINE WASTE PILE (W5) ————————————————————————————————————		See 2
	AN PORTON A STREET	CONCRETE SLAB (S1)	
	CONCRETE SLAB (S2)	VENT SHAFT (V1)	
	CONCRETE SLAB (S4)		
E PILE (W4)		CONCRETE SLAB (S3)	14426
Tank Sta	B		Google



FIGURE 5: HAZARDS LO

0 65 130 FEET













0 695 1,390 FEET

FIGURE 7: HAZARDS WARNING :









Water & Wastewater & Solid Waste & Roads & Stormwater & Subdivisions & Surveying & GIS

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"Maintaining Harmony Between Man and His Environment"

APPENDIX 2 — TABLES PHASE 2 HAZARDS MITIGATION REPORT Former Black Jack Nos. 1 & 2, and MAC Nos. 1 & 2 Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico



PURCHASE ORDER No. 111010/0





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Hydrology Air Quality ESA Soil Investigations SPCC Water Rights LUST



TABLE 1: ABANDONED URANIUM MINE HAZARDS SUMMARY



FORMER HOMESTAKE MINING COMPANY SITES

Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico

Barrick Purchase Order No. 111010/O

iiná bá, Inc. Project No. - 17-001-03

Site Name	Site Feature	Latitude	Longitude	Observed Hazards	Significant Hazards Identified	Description of Significant Hazards	Corrective Measure
Black Jack No. 1	Ore Pad/Slab	35° 32′ 43.70″N	108° 10′ 6.99″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (Windmill)	35° 32′ 43.72″N	108° 10′ 6.64″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (S1)	35° 32′ 45.44″N	108° 10′ 11.75″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (S2)	35° 32′ 46.51″N	108° 10′ 11.57″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (S3)	35° 32′ 47.09″N	108° 10′ 10.79″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (Hoist House)	35° 32′ 45.12″N	108° 10' 5.57"W	Slip-trip-fall, metal objects penetrating slab	Yes	Open pits in floor, sharp metal edges with laceration/puncture potential	Fill/cover open pits, co metal edges flush with surface
	Concrete Slab (SL9)	35° 32′ 45.40″N	108° 10′ 2.98″W	Slip-trip-fall, metal objects penetrating slab	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface



TABLE 1 continued: ABANDONED URANIUM MINE HAZARDS SUMMARY



FORMER HOMESTAKE MINING COMPANY SITES

Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico Barrick Purchase Order No. 111010/O *iiná bá,* Inc. Project No. – 17-001-03

Site Name	Site Feature	Latitude	Longitude	Observed Hazards	Significant Hazards Identified	Description of Significant Hazards	Corrective Measure
Black Jack No. 1	Vent Shaft (central)	35° 32′ 46.20″N	108° 10' 1.50"W	Slip-trip-fall, metal objects penetrating hoist anchors	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Utility Raise (U2)	35° 32.73'N	108° 10.114'W	Slip-trip-fall, metal object above grade	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	North Vent Shaft (NV)	35° 32′ 44.93″N	108° 9′ 51.20″W	Slip-trip-fall, subsided ground creating depression	Yes	Open trench/pit with bodily injury possible	Fill/cover (cap
	Utility Raise (U4)	35° 32.750'N	108° 9.852'W	Slip-trip-fall	No	Not Applicable	Plug*
	Utility Raise (U5)	35° 32′ 44.74″N	108° 10' 6.44"W	Slip-trip-fall, metal object above grade	Yes	Sharp metal edges with laceration/puncture potential	Remove metal from ground
	Utility Raise (Open Hole)	35° 32′ 35.44″N	108° 9′ 51.68″W	Slip-trip-fall	No	Not Applicable	Plug*
Black Jack No. 2	Mine Shaft (MI)	35° 31′ 57.37″N	108° 15′ 14.82″W	Slip-trip-fall, open pit	Yes	Open shaft with bodily injury and entrapment	Fill/cover (cap)
	Utility Raise (U1)	35° 31′ 58.11″N	108° 15' 16.83"W	Slip-trip-fall, metal edges above grade	Yes	Sharp metal edges with laceration/puncture potential	Cut metal edges flush with surface
	Utility Raise (U2)	35° 31′ 57.88″N	108° 15′ 16.52″W	Slip-trip-fall, metal edges above grade, open hole	Yes	Sharp metal edges with laceration/puncture potential, leg/foot injury potential	Cut metal edges flush with surface, install plug



TABLE 1 continued: ABANDONED URANIUM MINE HAZARDS SUMMARY



FORMER HOMESTAKE MINING COMPANY SITES

Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico

Barrick Purchase Order No. 111010/O

iiná bá, Inc. Project No. – 17-001-03

Site Name	Site Feature	Latitude	Longitude	Observed Hazards	Significant Hazards Identified	Description of Significant Hazards	Corrective Measure
Black Jack No. 2	Diversion Channel	35° 32′ 0.56″N		Slip-trip-fall, metal edges on exposed channel liner	Yes	Sharp metal edges with laceration/puncture potential	h Remove exposed metal liner
	Utility Raise (U3)	35° 32' 9.69"N	108° 15′ 20.37″W	Slip-trip-fall	No	Not Applicable	Plug*
MAC No. 1	Partially Buried Mine Shaft	35° 32′ 35.01″N		Slip-trip-fall, deep open pit, metal edges exposed	Yes	Bodily injury or entrapment, laceration/puncture potential	Fill/cover/cap
	Service Building (B1)	35° 32′ 36.18″N	108° 15′ 57.67″W	Potential exposure to biohazard (fecal material)	Yes	Exposure to potential Hanta Virus	Keep structure locked and secured, place visible hazard warnings
	Hoist House (B2)	35° 32′ 35.82″N	108° 15′ 56.55″W	Slip-trip-fall, shallow open floor sumps with sharp metal protrusions, potential exposure to biohazard (fecal material)	Yes	Bodily injury with laceration/puncture potential, exposure to potential Hanta Virus	Keep structure locked and secured, place visible hazard warnings
	Concrete Slab (S2)	35° 32′ 35.61′	"N 108° 15′ 56.58"\	N Slip-trip-fall, metal penetrations in slab	Yes		Cut metal edges flush with surface
	Concrete Slab (S3)	35° 32′ 35.70′	N 108° 15′ 56.56″\	N Slip-trip-fall, metal penetrations in slab	Yes		cut metal edges flush with surface
	Septic Tank (ST	7) 35° 32′ 36.03	"N 108° 15′ 58.10"\	N Slip-trip-fall, open cavity or pit	Yes	0.	Backfill/cover cavity (cap)



TABLE 1 continued: ABANDONED URANIUM MINE HAZARDS SUMMARY



FORMER HOMESTAKE MINING COMPANY SITES

Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico Barrick Purchase Order No. 111010/O *iiná bá*, Inc. Project No. – 17-001-03

Site Name	Site Feature	Latitude	Longitude	Observed Hazards	Significant Hazards Identified	Description of Significant Hazar	
	Mine Waste (debris) Pile (W3)	35° 31′ 37.86″N	108° 14′ 50.26″W	Slip-trip-fall, exposed sharp metal edges (rusty)	Yes	Laceration/puncture potential	Fence off pile until characterized
	Mine Waste Pile (W2)	35° 31′ 38.98″N	108° 14′ 48.38″W	Slip-trip-fall, exposed metal rods	Yes	Laceration/puncture potential	Cut metal edges flush with surface or remove
	Concrete Slab (S1)	35° 31′ 35.99″N	108° 14′ 47.46″W	Slip-trip-fall, exposed metal with sharp edges	Yes	Laceration/puncture potential	Cut metal edges flush with surface
	Concrete Slab (S2)	35° 31′ 35.68″N	108° 14′ 47.55″W	Slip-trip-fall, exposed metal with sharp edges	Yes	Laceration/puncture potential	Cut metal edges flush with surface
	Open Hole (OH1)	35° 31′ 37.00″N	108° 14' 50.00"W	Slip-trip-fall	Yes	Possible foot/leg injury	Fill/plug hole
	Open Hole (OH2)	35° 31' 37.00"N	108° 14′ 50.00″W	Slip-trip-fall	Yes F	Possible foot/leg injury	Fill/plug hole
	Vent Shaft- borehole (V1)	35° 32.781'N	108° 10.025'W	Slip-trip-fall	Yes F	Possible foot/leg injury	Fill/plug hole

Footnotes:

*Feature is not considered a significant physical hazard, but was mitigated (plugged) this phase for potential Radon emission prior to other Phase 3 mitigation measures.

TABLE 2: BARRICK GOLD HAZARDS MITIGATON SIGN LOCATIONS

PROJECT : 17-001-03

COORDINATE SYSTEM: STATE PLANE COORDINATES, NM WEST, NAD 83

WGS 1984

LOCATION: ALL POINTS

POINT	NORTHING	EASTING	LATITUDE	LONGITUDE	DESCRIPTION
100	1652739.91	2594143.23	35 32 29.92223	108 16 00.43466	SIGN POST
101	1652944.96	2594930.55	35 32 31.98440	108 15 50.91823	SIGN POST
102	1653763.37	2594822.54	35 32 40.07410	108 15 52.26854	SIGN POST
103	1653663.50	2594049.96	35 32 39.05289	108 16 01.61254	SIGN POST
104	1654212.20	2593188.13	35 32 44.44206	108 16 12.07121	SIGN POST
105	1653721.13	2593402.24	35 32 39.59456	108 16 09.45385	SIGN POST
106	1653129.09	2593793.79	35 32 33.75614	108 16 04.68391	SIGN POST
107	1648882.99	2596618.04	35 31 51.88239	108 15 30.28586	SIGN POST
108	1649605.70	2596809.64	35 31 59.03852	108 15 28.00526	SIGN POST
109	1650404.07	2598308.89	35 32 06.99814	108 15 09.90606	SIGN POST
110	1650830.05	2597422.33	35 32 11.17383	108 15 20.65550	SIGN POST
111	1651111.15	2599174.75	35 32 14.02779	108 14 59.46524	SIGN POST
112	1649716.75	2598878.20	35 32 00.22419	108 15 02.98218	SIGN POST
113	1648822.42	2598390.26	35 31 51.35839	108 15 08.84011	SIGN POST
114	1647903.60	2598707.82	35 31 42.28418	108 15 04.95071	SIGN POST
115	1647417.14	2599102.07	35 31 37.48945	108 15 00.15583	SIGN POST
116	1647750.36	2599579.31	35 31 40.80506	108 14 54.39871	SIGN POST
117	1648163.34	2599564.23	35 31 44.88892	108 14 54.60226	SIGN POST
118	1648778.67	2599803.80	35 31 50.98476	108 14 51.73489	SIGN POST
119	1649312.57	2600184.34	35 31 56.28104	108 14 47.15771	SIGN POST
120	1648783.58	2600608.86	35 31 51.06669	108 14 41.99454	SIGN POST
121	1647497.36	2600603.38	35 31 38.34519	108 14 41.99583	SIGN POST
122	1646905.10	2600271.18	35 31 32.47377	108 14 45.98503	SIGN POST
123	1646387.46	2599615.09	35 31 27.32688	108 14 53.89649	SIGN POST
124	1652576.81	2622052.12	35 32 29.39171	108 10 22.70200	SIGN POST
125	1653331.33	2621966.30	35 32 36.85128	108 10 23.77195	SIGN POST
126	1653800.53	2621746.07	35 32 41.48437	108 10 26.45669	SIGN POST
127	1654417.33	2622123.79	35 32 47.59777	108 10 21.91146	SIGN POST
128	1655169.71	2622036.18	35 32 55.03613	108 10 23.00310	SIGN POST
129	1655022.92	2622911.61	35 32 53.61407	108 10 12.40238	SIGN POST
130	1654974.52	2623698.37	35 32 53.16181	108 10 02.87900	SIGN POST
131	1655009.66	2624729.79	35 32 53.54374	108 09 50.39823	SIGN POST
132	1654189.08	2625203.61	35 32 45.44349	108 09 44.63084	SIGN POST
133	1653475.46	2625244.07	35 32 38.38687	108 09 44.11240	SIGN POST
134	1652856.37	2625512.99	35 32 32.27258	108 09 40.83309	SIGN POST
135	1652664.29	2624595.63	35 32 30.34243	108 09 51.92640	SIGN POST
136	1651934.24	2623856.80	35 32 23.09731	108 10 00.83716	SIGN POST
137	1652274.64	2623382.75	35 32 26.44806	108 10 06.58755	SIGN POST
138	1652596.37	2622950.50	35 32 29.61556	108 10 11.83152	SIGN POST
139	1648544.43	2597470.10	35 31 48.57017	108 15 19.95899	SIGN POST

Water Wastewater Solid Waste Roads Stormwater Subdivisions Surveying GIS

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APPENDIX 3 — PHOTOGRAPHIC DOCUMENTATION PHASE 2 HAZARDS MITIGATION REPORT Former Black Jack Nos. 1 & 2, and MAC Nos. 1 & 2 Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico



PURCHASE ORDER NO. 111010/0





PREPARED FOR: HOMESTAKE MINING COMPANY OF CALIFORNIA (BARRICK) P. O. BOX 980 ELKO, NV 89830

> PREPARED BY: *IINÁ BÁ*, INC. 1812 SCHOFIELD LANE FARMINGTON, NM 87401 www.iinábá.com PHONE: (505) 327-1072 FAX: (505) 327-1517 JUNE 2018

Hydrology Air Quality ESA Soil Investigations SPCC Water Rights LUST





PHOTOGRAPHIC DOCUMENTATION OF SITE ACTIVITIES Phase 2 Physical Hazards Mitigation Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico



Photographed by:	John R. Isham, CPG, Antonita Nunes, Lemuel Spean (iiná bá, Inc.)
Photograph Period:	November 2017 to June 2018
Barrick Contract:	111011/0
Contract Owner:	Homestake Mining Company of California (Barrick Gold)



View of typical cutting of metal protrusions flush with concrete slab at Ore Pad/Slab at Black Jack Photograph 1: No. 1.



View of typical cutting of anchor bolts flush with concrete slab at windmill concrete slab at Black Photograph 2: Jack No. 1.



Photograph 3: View of typical cutting of wall anchor bolts flush with concrete slab at S1.



Photograph 4: View of typical cutting of wall anchor bolts flush with concrete slab at S2.



Photograph 5: View of typical wall anchor bolt cut flush with concrete slab at S3.



Photograph 6: View of typical Hoist House anchor bolts cut flush with concrete at Black Jack No. 1.



View of typical placement of flowable fill into pits of Hoist House at Black Jack No. 1. Photograph 7:



View of typical wall anchor bolts cut flush with concrete slab at SL9 at Black Jack No. 1. Photograph 8:



View of typical cutting of hoist anchor bolts flush with concrete at central Vent Shaft at Black Jack Photograph 9: No. 1.






Photograph 11: View of typical backfilling, compaction, and grading at North Vent Shaft (NV) at Black Jack No. 1.



Photograph 12: View of typical inflatable hole plug installed in Open Hole (HS) and Utility Raise U4 at Black Jack No. 1.



Photograph 13: View of typical inflatable packer (hole plug) installed in Utility Raise U4 at Black Jack No. 1.



Photograph 14: View of typical removal of sharp metal feature with backfilling and compact on at Utility Raise U5 at Black Jack No. 1.



Photograph 15: View of typical flowable fill placement in Mine Shaft (MI) at Black Jack No. 2.



Photograph 16: View of typical backfilling and covering Utility Raise U1 at Black Jack No. 2



Photograph 17: View of typical plugging and sealing Utility Raise U2 at Black Jack No. 2.



Photograph 18: View of typical diversion channel removal at Black Jack No. 2.



Photograph 19: View of typical backfilling, compaction, and grading of partially Buried Mine Shaft at MAC No. 1.



Photograph 20: View of typical Biohazard sign installation (front and rear) on Service Building (B1) at MAC No. 1



Photograph 21: View of typical Biohazard sign installation (front and rear) on Hoist House at MAC No. 1.



Photograph 22: View of typical cutting of sharp metal surface flush with concrete slab (S2) at MAC No. 1.



Photograph 24: View of typical cutting of sharp metal surface flush with concrete slab (S3) at MAC No. 1.



Photograph 24: View of typical backfilling, compaction, and grading of septic tank hazard at MAC No. 1.



Photograph 25: View of typical fence installation around Mine Waste (debris) Pile (W3) at MAC No. 2.



Photograph 26: View of typical backfilling, compaction, and grading of Open Hole (OH1) at MAC No. 2.



Photograph 27: View of typical backfilling, compaction, and grading at Open Hole (OH2) at MAC No. 2.



Photograph 28: View of typical backfilling, compaction, and grading at Vent Shaft-Borehole at MAC No. 2.





Water & Wastewater & Solid Waste & Roads & Stormwater & Subdivisions & Surveying & GIS



"Maintaining Harmony Between Man and His Environment"

APPENDIX 4 — SUPPORTING DOCUMENTATION PHASE 2 HAZARDS MITIGATION REPORT Former Black Jack Nos. 1 & 2, and MAC Nos. 1 & 2 Smith Lake and Mariano Lake Chapters, McKinley County, New Mexico



PURCHASE ORDER No. 111010/0





PREPARED FOR: HOMESTAKE MINING COMPANY OF CALIFORNIA (BARRICK) P. O. BOX 980 ELKO, NV 89830

> PREPARED BY: *IINÁ BÁ*, INC. 1812 SCHOFIELD LANE FARMINGTON, NM 87401 www.iinábá.com PHONE: (505) 327-1072 FAX: (505) 327-1517 JUNE 2018

Hydrology Air Quality ESA Soil Investigations SPCC Water Rights LUST



Job Site Safety Meeting Form It is the expressed policy of *iiná bá* to conduct a safety meeting with all personnel on the jobsite prior to beginning any work. Where applicable the Supervisor will conduct the safety meeting and prepare the form. All safety meetings will comply with Tribal, State and Federal **regulations** and any safety procedures issued by the client.

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bá, Inc. 4801 N. Butler Ave. suite 1101 Farmington, NM 87401 PO Box 2606 Farmington, NM 87499 Phone: (505) 327-1072 Fax: (505) 327-1517 www.iinaba.com



íiná bá, Inc.

ENVIRONMENTAL | ENGINEERING | SURVEYING | CONSTRUCTION

Job Site Safety Meeting Form

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Date: 11/29/201	7			_		Т	ime		0	9)	00	0	Job Number17-	00/-03
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iná bá. Inc. 4801 N. Butler Ave. suite 1101 Farmington, NM 87401 PO Box 2606 Farmington, NM 8749 Phone: (505) 327-1072 Fax: (505) 327-1517 www.iinaba.com



Job Site Safety Meeting Form

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Date: 12/2/17			_	-				-		90	0		Job Nu	mber [7-	001-0
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www.iinaba.com

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(iná bá, Inc.

Job Site Safety Meeting Form

It is the expressed policy of iiná bá to conduct a safety meeting with all personnel on the jobsite prior to beginning any work. Where applicable the Supervisor will conduct the safety meeting and prepare the form. All safety meetings will comply with Tribal, State and Federal regulations and any safety procedures issued by the client.

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Other equipment/permit requirements: Emergency Assembly Area:OV Who to call in an Emergency:OV Name: (print) Energy Leon Auto Laboratory	G TSIC JII	E		n.	T			2) -	Company LinaBa, Inc ichaba ti

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iiná bá, Inc. 4801 N. Butler Ave. suite 1101 Farmington, NM 87401 PO Box 2606 Farmington, NM 87499 Phone: (505) 327-1072 Fax: (505) 327-1517 www.iinaba.com



BLACK JACK MINE #1

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iiná bá. Inc. 4801 N. Butler Ave. suite 1101 Farmington, NM 87401 PO Box 2606 Farmington, NM 87499 Phone: (505) 327-1072 Fax: (505) 327-1517 www.iinaba.com



liná bá, Inc.

ENVIRONMENTAL | ENGINEERING | SURVEYING | CONSTRUCTION

BLACK LACK MINE # 2 MAC # 1 MINE

Job Site Safety Meeting Form It is the expressed policy of *iiná bá* to conduct a safety meeting with all personnel on the jobsite prior to beginning any work. Where applicable the Supervisor will conduct the safety meeting and prepare the form. All safety meetings will comply with Tribal, State and Federal regulations and any safety procedures issued by the client. .

Location: SMTHLAKE	d: UCIV		~	51 1	Zh	a	10	22	n	nu	~ 1	boung sign	(GURNEY)	_
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iiná bá supervisor (Print Na	me)											(Signature)		
Hand, Eye and Head Safety	Ø			Slip	p, Tr	ip ai	nd F	all		r		Heavy Ed	quipment Operation	
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Above/Underground-Storage-T	ank-Removal-	-	_	-	-			_	-	_	_			
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MAC #2 MINE

Job Site Safety Meeting Form

It is the expressed policy of *iiná bá* to conduct a safety meeting with all personnel on the jobsite prior to beginning any work. Where applicable the Supervisor will conduct the safety meeting and prepare the form. All safety meetings will comply with Tribal, State and Federal regulations and any safety procedures issued by the client.

Date: 10 31 18			_	-		Т	ime		Da	и		_	Job Number: 17 -	001-0
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liná bá supervisor (Print Nan	ne)										((Signatur	re)	
Hand, Eye and Head Safety				Slip	, Tri	ip an	nd Fa	all					Heavy Equipment Operation	
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HY YAZZIE TED CHARLES				4	12	l	á	5	_		-		unie lis In	

Maintaining Harmony Between Man and His Environment

iiná bá. Inc. 4801 N. Butler Ave, suite 1101 Farmington, NM 87401 PO Box 2606 Farmington, NM 87499 Phone: (505) 327-1072 Fax: (505) 327-1517

www.finaba.com

AEA	DYMIA HELE'S	M	ICHELE'S 501 Pa	Billing tton • Gallu	Address:		YCLE	DELIN	ERY TICKET
ROCA EST RESUL			Batch Plan	ler Valley R t: 505-863-	load • Gallu 3818 • FA)	up, NM 87301 505-863-472 ability and responsible	20	0 1 1 <u>1</u> 2	DO3815
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A STATE	10-00 10	.00 10.	20 326	23101	1 5	< FLOWFIL			
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AL	DYMIA HELE'S	M	ICHELE'S	Billin atton • Gall	g Address: up, New N	ICK & RE		DELIV	ERY TICKET
The St				sler Valley		llup, NM 873 AX 505-863-		NO.(03894
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READY	MIL	MI	CHELE'S	Billir	ng Address:	OCK & R		DELIN	ERY TICKET
NICHE ROCK 4				<i>Pla</i> ler Valley	nt Address Road • Ga	llup, NM 87	301	NO.(003895
TEST RESULTS SLUMP CONC. TEMP. SYLINDERS TAKEN	Lifes con	icrete to which wa	eet the specifications	for the working MIX ROCK & RE as been added	and directed. strength market CYCLE will not at the insistence	on the delivery sli accept responsibilit of the Purchaser a	ponsibility for authorizin acent thereto as a means CYCE and its employed CYCE and its employed p if property poured and ty for the strength and co after it leaves the plant. A	cured but is not	ARRIVE JOB FINISH POURING
VATER ADDED	1	RMS: Net due 30 Nor court costs as	BY:	Aus	r) assessed of rent legal action TOMER SIG	1 Vus	TIME: 7 MINL	all attorney fees fing balance. UNLOADING JTES PER CUBIC	LEAVE JOB
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OLD TO 11E	599		DEL	IVER TO		913	A FIN	12/0	4/17
			PRODUCT	PRODUCT	<u>imithla</u>	ke	UNIT	BERLY	
HIS LOAD ORD	DERED DE	ELIVERED	CODE	DESCRIPTION	4		MEASURE	PRICELE RIT	PRICE
RUCK PLAN	NT SL ENTRAIN SU	UMP I	DUE AT JOB CAL. CHLORIDE,	USE OF CONC HOT WATER		SK FLOWF	TLL	SUB TOTAL STATE TAX COUNTY TAX CITY TAX	•
LIVERY INSTRUCTIC	and the second se		Salar Za				to the second	TOTAL	THE FEE
10.0 Materia SA-OF SEC-1/1 4-CRNHS WITER Sotual	Size Size VØyd I Design II 75 5 7 5 7 5 8 8	75015 Mix Cod 3262310 Qty 6 lb 8 lb 5 lb 5 gl # 4 8 gl # 4	58 e Ret 1 Required 1 5847 16 5847 16 780 16 750 16 27.6 g1	uthed Batched 25780 15 690 15 740 15 740 15 427.0 gl	Dty 5. Var -0.265 -1.435 -1.335 -0.135	Mix * Moisture 0.73* M	D Actual Wat 22 gl \$27.8 gl	NO.(D Time 9:28 9 Lo 28	

Q.E.D	DYMIA	M	ICHELI	E'S READY Billin	MIX R g Address		CYCLE	DELIN	(EDV TIONET
	HELE'S			1 Patton • Galli <i>Plar</i> Hasler Valley I	nt Address			DELI	ERY TICKET
CA		HILLING ALL	Batch	Plant: 505-863	-3818 • I	AX 505-863-	4720		03896
EST RESU			expense in maki	the curb line, the under RECYCLE to travel on the ty and hold harmless MIC ing delivery as authorized ications for the working s	and directed.			1. 2. 11	ARRIVE JOB
YUNDERS		otherwise warrant concrete to which testing of this con-	ed. MICHELE'S water or other m crete must be in	READYMIX ROCK & ŘE naterial has been added a strict accordance with AS	CYCLE will no it the insistence TM procedure	t accept responsibility e of the Purchaser aft is.	for the strength and or er it leaves the plant. A	insistency of any iny sampling and	
	ER'S REQUEST	A	as may be deer GALLONS	by per month (A8%) per year med reasonable in the even By: CUS	LINI	BRATURE	ALLOWABLE	UNLOADING ITES PER CUBIC	ARRIVE PLANT
USTOMER	ID P.O	NULLBER			ZONE	TIME	DATE	NAT IS	TICKET
OLD TO	11699		NE LON	DELIVER TO		9:47	A PRIVER	12/0	4/17
UANTITY	TING BA		IPRODUCT	IPRODUCT	mithle	ike .	IUNIT	GLENN	WILSON
HISLOAD	ORDERED	DELIVERED	CODE	DESCRIPTION			MEASURE		
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	6947 Ø1	6.	Bulin	10,04 AM	%	I mark		CITY TAX	and the
	TRUCTIONS							TOTAL	
	Truck			ser D	ear Here	cket Num		D Time	
	Load Size	Mix Co 326231	de Ø1	Returned Batched 25800 15 695 15 755 15 428.0 gl			Age Se	a Lo	12/4/17 ad ID 809
1 51	GCRNRS WATER Actual Load Total: 3 Slump: 6,00	75 16 45.0 gl 8 Nur Batclies: 8922 16 In 8 Water	756 lb 427.5 gl Design 2.50 in Trucke	753 16 428.0 gl 90 Nater/Cemant 2 8.0 gi Adjust	0.67% 0.10% .592 A Hater: 8.8	Manual 9:35 Design 454 gi / Lead Th	428.9 gl 118 0.0 gl 11* Robert (0.0	Artual \$50. % gl/ yd %	gl To Adds 0.0 ste: Manual feed oc

(the	DYMIL	M	CHELE	E'S F		MIX RO Address:	DCK & R	ECY	CLE		
MIC	HEI E'S		50	1 Pat			Mexico 8730	01		DELIN	ERY TICKET
MIG	HELE J				Plan	t Address					
20	1				the second se		allup, NM 87		11.2		
-	4 BER HILL		Batch	Plant	: 505-863	-3818 • F	AX 505-863	3-4720		NO.	03898
EST REBUI		e e e e e e e e e e e e e e e e e e e	beyond I ROCK &	the curb RECYCL	line, the unders E to travel on the	igned assum tob site prem	es liability and resi ises of property adj DYMIX ROCK & RE	ponsibility (acent there	lor authorizin to as a mean	g the truck(s) of s of access to the	LEAVE PLANT
ONC. TEMP	1 199124-11191 1	HE HEFHALIE	in makir	ng deliver	ry as authorized a	and directed.	and the	In second			ARRIVE JOB
YLINDERS		This concrete will r otherwise warrante concrete to which v testing of this conc	d. MICHELE'S water or other m	READYM aterial ha	MIX ROCK & REC as been added at	YCLE will no the insistence	accept responsibil of the Purchaser	ip if proper ity for the st after it leave	ly poured and trength and or as the plant. A	I cured but is not onsistency of any my sampling and	FINISH POURING
ESTED BY		TERMS: Net due 3 and/or court costs a						Purchaser ry to collect	agrees to pay I any outstand	all attorney fees	LEAVE JOB
	ER'S REQUEST	6	GALLONS	ву	fitous		GNATURE		TIME: 7 MINU YARD.	UNLOADING	and the second
USTOMER		NUMBER'				ZONE	TIME	DA	TE		TICKET
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	LINA BA I	NC			3	mithle	ike			LAWRE	NCE SAM
UANTITY HIS LOAD	ORDERED	QUANTITY	CODE		PRODUCT	and the first		THE VE	MEASURE	UNIT 1607	PRICE
TUCK	19.00 60 PLANT	SLUMP	DUE AT JOB	3262	USE OF CONCE	AETE	SK FLOWF			SUB TOTAL STATE TAX	•
CEL	6 MIRENTRAIN	SUPER PLAS	DAL QHILORID			RETARDE			2-14	COUNTY TAX	1-
LIVERY INS	STRUCTIONS			%		%	11 1 1 A		100	TOTAL	
ECIAL INST	RUCTIONS									TOTAL	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Truck 6946 Load Size 10,00 yd Material Des SA-CF GCC-I/II 4-CRMIS NATER	75022 Mix Con 3262310 iga Øty 2566 1b 70 1b 75 1b 45.0 gl # Nur Batches:	50 de 25847 lb 700 lb 750 lb 927.6 el	Ret	D unned Istohed 5708 15 709 15 759 15 250 21	Eit y \$ 9ar -0.498 0.005 0.005 0.105	% Moisture Q.73% M Manual II:	38 Age Actu 20 428.1	98 D ai Hat 2 gi 3 gi	D Tiee 11:2 q Lo 28	811



E	DYMIL	M	ICHELE'S	READY		OCK & RE	CYCLE		1
MIC	HELE'S			Billin Patton • Gall	ng Address lup, New	Mexico 87301		DELIV	ERY TICKET
-	14		1661 H		Road • G	allup, NM 873	301		
CA				ant: 505-86		NO.	03899		
TEST RESU SLUMP CONC. TEMP			Burn beyond the c ROCK & REC Indemnify and expense in making de	urb line, the unde YCLE to travel on the indentity of the	rsigned assum he job site pren CHELE'S REA	nes liability and responses of property adjace DYMIX ROCK & REC	nsibility for authorizing ent thereto as a means YCE and its employee	the truck(s) of of access to the s from any loss,	
CYLINDERS	and a subject		a survey of the second	and a set of the set of the		d on the delivery slip accept responsibility to of the Purchaser aft	If properly poured and for the strength and oc ar it leaves the plant. A	cured but is not insistency of any	FINISH POURING
FESTED BY							urchaser agrees to pay to collect any outstand		LEAVE JOB
NATER ADD		1	5 BY:.	Into	TOMER S	Nur			ARRIVE PLANT
USTOMER	10 P.O. N	UMBER	GALLONS	003	ZONE	TIME	DATE		TICKET
IOLD TO	11699	1000-200		ELIVER TO		11145	DRIVER	12/0	117
							A SUT	Self- is	
1.02	IINA BA II	NC	-		Smithla	dke'		BERLY	N TOM
HIS LOAD	ORDERED	QUANTITY	CODE	PRODUCT	1. Start	WE FRANK	MEASURE		PRICE
•	10.00 60.	00 50.	00 326	23101	1	SK FLONFI	ц.		
AUCK	PLANT	SLUMP	DUE AT JOB	USE OF CONC	CRETE			SUB TOTAL STATE TAX	100 P
OCEL	6 GAURENTRAINI	SUPER PLAS	PAAL CHLORIDEL 2	- OHOT WATER	RETARDE	A		COUNTY TAX	
LIVERY INS	STRUCTIONS			%	%			CITY TAX	
ECIAL INST	RUCTIONS				1112		1	TOTAL	
	Truck 6945 Load Size 12.00 yd Material Desi SA-OF SC-1/11 K-CBNRS MTEB Keiuzl Jaad Total: 300	75015 Mix Con 3262310 05616 7016 7016 7515 5.001 # Nun Batchess 38 16	81 Required 25847 15 760 15 756 15 427.6 91 2 Design 2.590 5	D Batched 25840 16 25840 16 595 16 740 36 427.0 gl later/Cesent 2	Ot y s Var -0.035 -0.715 -1.335 -0.135 2.617 7	Mix X Maisture 0.73% M Manual 11:25 Design 459	Actual Wat 22 gl 427.0 gl 1649 16 ul	D Time 11:3 9 Lo: 28/	91.2 91 To Adds - 0.6
	210802 0. 00 10	i z water	te trucht e.g	ör Holasa	mater, St.	gi / Load Ir	18 Harsen 2.0 (IT AN NO	tei Manual Feed oc

REA	DYMIA	М	ICHEL	E'S F		MIX R	OCK & F	RECYC	CLE		
MIC	HELE'S		50	01 Patt	on · Gallu	p, New	Mexico 873	DELIVERY TICKET			
						Address		1. Ball	11	Here I	
TOCK			166 Batch	1 Hasie Plant	er Valley F : 505-863	load • G •3818 • f	allup, NM 8 FAX 505-86	87301 53-4720		NO.(003900
EST RESUL	.TS AIR %	In the event of de MICHELE'S READ discharge area and cost, damage, or e	YMIX ROCK 8 d shall indemn	A RECYCLE	to travel on the d harmless MIC	job site prem HELE'S REA	es liability and re lises of property a DYMIX ROCK & I	esponsibility fi adjacent theret RECYCE and	or authorizing to as a means l its employee	g the truck(s) of s of access to the es from any loss,	
	and the second se	This concrete will otherwise warrante	meet the speci	ifications to	r the working st	rength marke	d on the delivery	slip if propert	y poured and	cured but is not	1755
YLINDERS		concrete to which testing of this conc	water or other in rete must be in	material ha	s been added at ordance with AS	ansistency of any any sampling and	FINISH POURING				
ESTED BY		TERMS: Net due 3 and/or court costs	0 days - 1 1/29 as may be dee	6 per mont	n (18% per year) nable in the ave	assessed on nt legal action	past due account becomes necess	ts. Purchaser sary to collect	agrees to pay any outstand	all attorney fees ling balance.	LEAVEJOB
ATER ADDE	ED ER'S REQUEST	er	GALLONS	BY:	CUST	OMER SI	GNATURE			UNLOADING	ARRIVE PLANT
USTOMERI	11699 P.O.	NOMBER				ZONE	TIME 11:	54 GAA	TE	12/0	TICKET
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										11607	
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i cont	6947 @1	ALC: NOT THE REAL PROPERTY OF	ØØin	12:	7 PM					SUB TOTAL STATE TAX	The second
CCEL	AIR ENTRAIN	SUPER PLAS.	CAL CHLORI	IDE. %	HOT WATER	RETARDE	R	3.7		COUNTY TAX	
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ECIAL INST	TRUCTIONS			5.5	ALE IS		al		wi.	1000	The states
	Truck 6947 Load Size	75020 Mix Co	e de	a			leket Nu Mi	39	00	n Lo	0039007
	10.00 yd Nateriai De SR-CF GCC-1/II 4-CRNRS WATER Nater	2566 10	Required 25847 15	B	alched 5680 lb 635 1a 740 lb	5 Var -0.65X -0.715 -1.335	* Moistur 8,73# M	2	al Hat 2 gl		
	WRIER Actual Load Total: 3 Slump: 6.00	50.0 gi Nos Batches: 1036 lb in # Water	672.6 gl 2 Design 2.1 In Truck:	4 176 Wat 9.6 gl	77.8 gl er/Cesant 2 Adjust	-0.125 .908 T Maters 0.1	Manual 1 Design gi / Load	472.0 11:48:87 1 500.0 nl Tris Hai	8 g1 ter: 0.0	Aftual 499.2 g17 yd a	gl To Add: 0.7 Iote: Nanuel Feed oc

a EA	DYMIA	M	ICHELE	'S READY		K & REC	YCLE		and the
MICI	HELE'S		501	Patton · Gall		tico 87301		DELI	ERY TICKET
	14		1661	Plar Hasler Valley I	nt Address Road • Gallu	o, NM 87301			
CA .	LINES THE		Batch P	lant: 505-863	-3818 • FAX	505-863-47	20	NO.	003931
EST RESUL			beyond the ROCK & RI	e curb line, the under ECYCLE to travel on th and hold harmless MIC	signed assumes lia e job site premises c	bility and responsibility and responsibility and responsibility adjacent to	lity for authorizin hereto as a mean	g the truck(s) of s of access to the	LEAVEPLANT
UMP		BE HAVE NE	a in making	delivery as authorized	and directed.				ARRIVE JOB
YLINDERS T		otherwise warrant concrete to which testing of this con	water or other mat crete must be in sti	tions for the working s EADYMIX ROCK & RE erial has been added a lot accordance with AS	CYCLE will not acce to the insistence of the TM procedures	pt responsibility for the Purchaser after it i	he strength and o leaves the plant.	insistency of any any sampling and	FINISH POURING
STED BY	THO			er month (18% per year d reasonable ry the eve					LEAVE JOB
ATER ADDE	D R'S REQUEST	Q	в	, All	10 mita	Mar		UNLOADING JTES PER CUBIC	ARRIVE PLANT
JSTOMER IC	The second s	NUMBER	GALLONS	CUS	ZONE TIME	TURE	DATE		TICKET
OLD TO	11699	enterio de la	and the state	DELIVER TO		2:18 1	DRIVER	12/0	5/17
1210-1								And the A	
JANTITY	ITNA BA I	QUANTITY	PRODUCT	PRODUCT	mithlake	A DECEMBER OF STREET	UNIT	BERLY	N TOM
IS LOAD	ORDERED	DELIVERED	CODE	DESCRIPTION			MEASURE	PRIGELETT	PRICE
•	19.00 30	.00 30.	00 38	2623101	1 SK	FLOWFILL	-		
UCK	PLANT	SLUMP	DUE AT JOB	USE OF CONC	RETE			SUB TOTAL STATE TAX	and the second
CEL	AIR ENTRAIN	SUPER PLAS.	CAL CHLORIDE	HOT WATER	RETARDER	La Starting		COUNTY TAX	2 States
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			-	т	EAR HERE			NO.(00393*
E L J	Fruck 5945 Load Size 10.00 yd Iaterial Des	326231	sa cie f Øl Required	leturned Ratched	Qty XVar X	Mix Ag Holsture Ac	1931 Je Be D Stual Nat	14:1	Date 2 12/5/17 ad ID 844
a de la	A-CF CC-I/II I-CRNRS IATER Ictual	2566 1b 78 1b 75 1b 45.0 gl Nus Batches:	25947 16 700 16 750 16 427.6 g1	25660 1b 690 1b 745 1b 427.0 g1	-0.721 0 -1.431 -0.671 -0.131 Ma	.735 M 14:12:4/	22 gl 17.0 gl	Actual 449.3 gl/ gd N	gl To Addi 8.7 otel Manual feed oc
-			- Charles						

ALAI	DYANH HELE'S	MI		S READYMIX ROC Billing Address: Patton • Gallup, New Mex Plant Address		CLE	DELIV	ERY TICKET
ROCK C			Batch P	lasler Valley Road • Gallup lant: 505-863-3818 • FAX	NO.003918			
LUMP ONC. TEMP. YLINDERS TA		This concrete will n otherwise warrante concrete to which w lesting of this concr	pense in making in neet the specificat d. MICHELE'S RE rater or other mate ete must be in stri	curb line, the undersigned assumes liab CYCLE to travel on the job site premises of and hold harmless MICHELE'S READYMIX delivery as authorized and directed. ions for the working strength marked on th ADYMIX ROCK & FEOYCLE will not accept rial has been added at the insistence of the ct accordance with ASTM procedures.	e delivery slip if prop t responsibility for the Purchaser after it le	erly poured and strength and co aves the plant. A	cured but is not nsistency of any ny sampling and	ARRIVE JOB FINISH POURING
ATER ADDEL T CUSTOMER	D R'S REQUEST	P	GALLONS	r month (18% ber yea) assessed on past d reasonable in the event legal action become CUSTOMER SIGNA IZONE TIME	TURE	ALLOWABLE		ARRIVE PLANT
OT DIC	11699			DELIVER TO	9:00 0	RIVER		117 11. TON
UANTITY		QUANTITY	PRODUCT	Smithlake PRODUCT		UNIT	BERLY	EXTENDED
	10.00 20.	00 10.1	00 32	2623101 I SK	FLOUFIEL			•
UCK	PLANT	SUPER PLAS	DUE AT JOB	USE OF CONCRETE			SUB TOTAL STATE TAX COUNTY TAX CITY TAX	
LIVERY INST				there are proved		and the	TOTAL	STAN STAT
6 1 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-CF S CC-1/11 -CRNRS ATER 4 ctual ctual	Nua Batchess	5 a fe R 31 Required 25847 1b 700 1b 700 1b 759 1b 427.6 gl 22,6 gl 22,6 gl	26120 16 + 1.055 0. 595 16 -0.715 740 16 -1.335 428.9 51 6.105	Mix Ag Misture Act 73% N 405 Mai 8:52:43 Design 450 A c	D uai Wat 23 gl 1.0 gl	D Time 8:52 q Lo 25	12/5/17 ad ID 931

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