
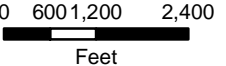


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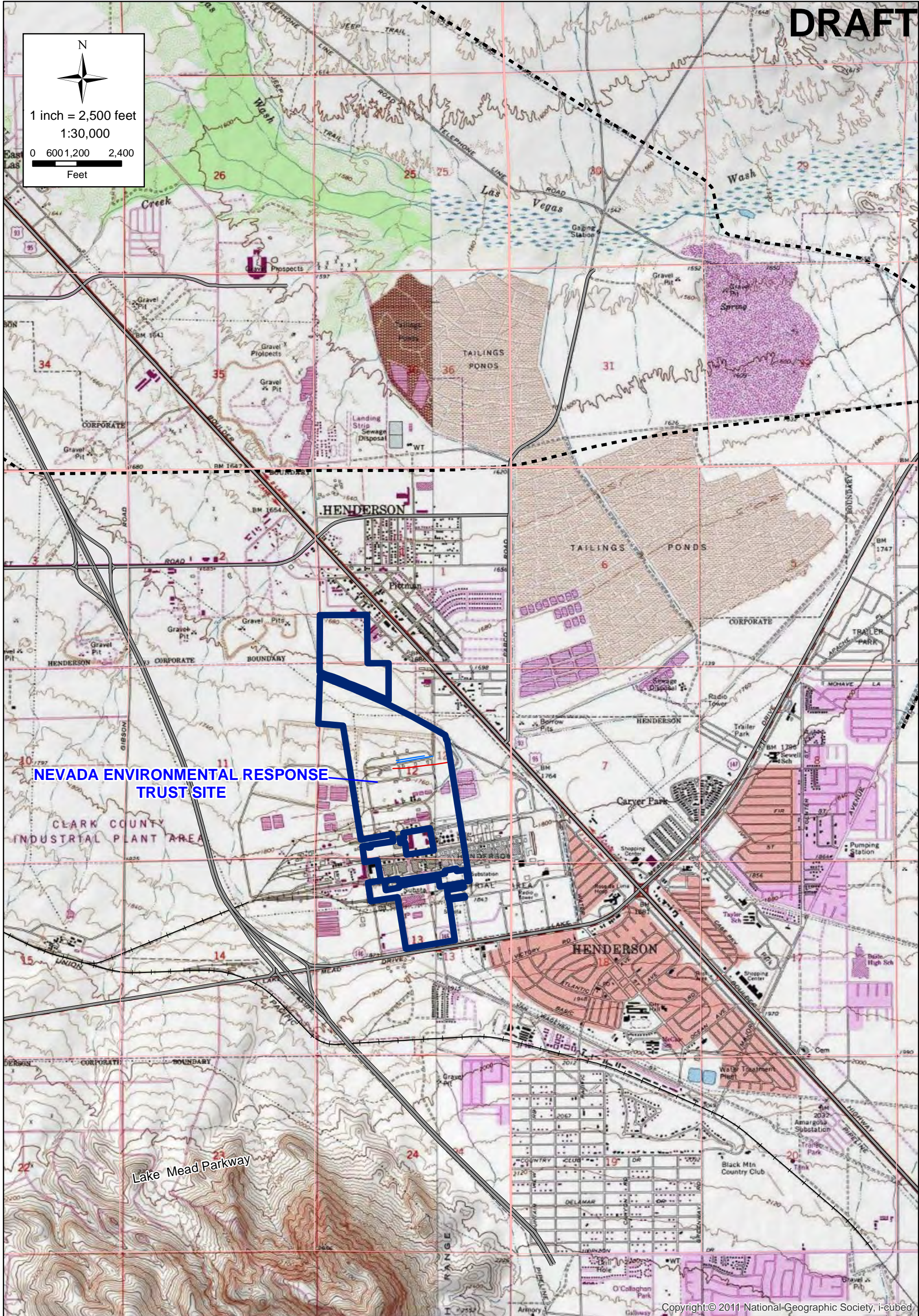
N



1 inch = 2,500 feet
1:30,000



0 600 1,200 2,400
Feet



NEVADA ENVIRONMENTAL RESPONSE TRUST SITE

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SHEET NUMBER:
1

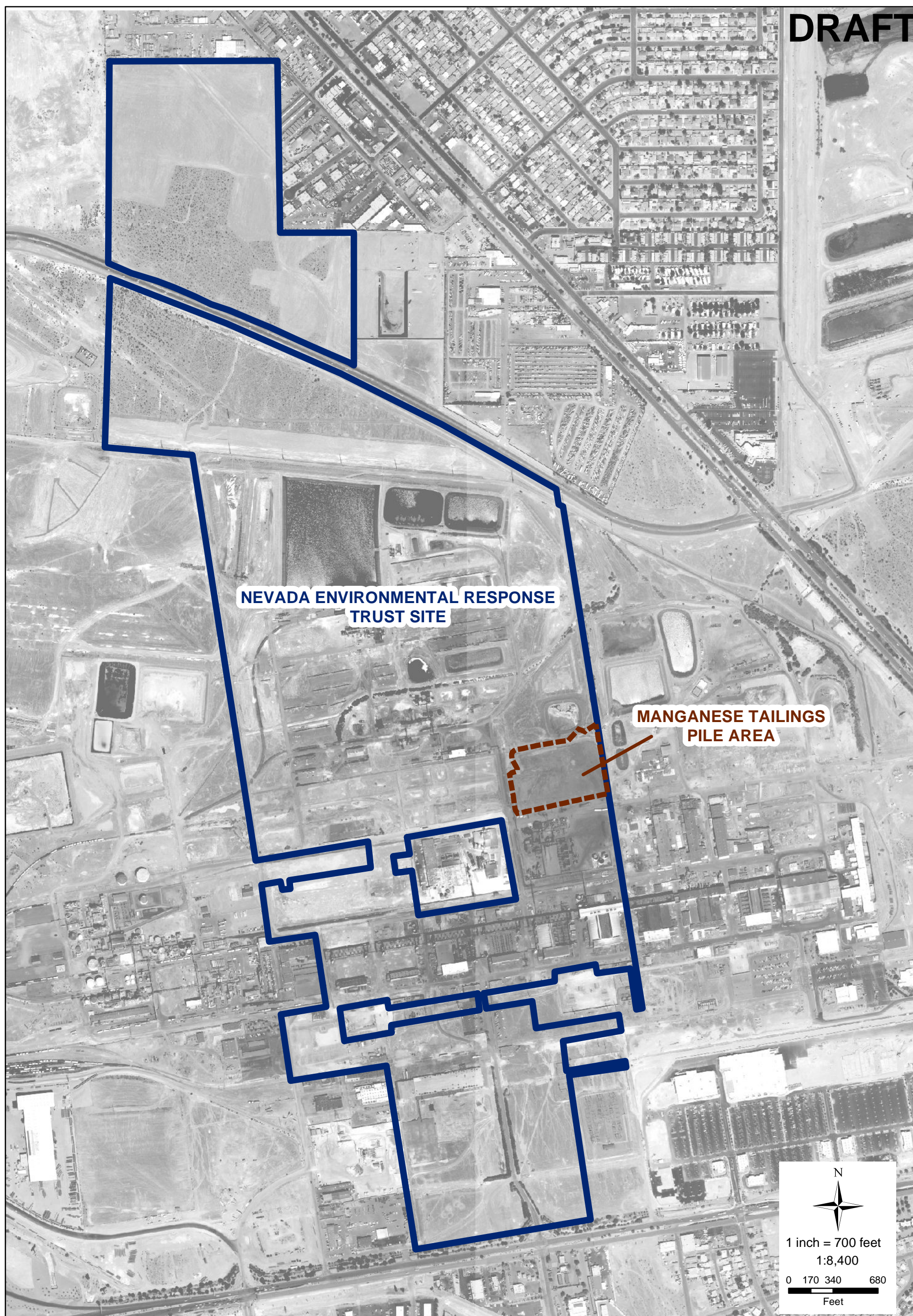
SITE LOCATION MAP		
Manganese Tailings Removal Technical Memorandum Nevada Environmental Response Trust Site Henderson, Nevada		
SCALE: 1:24,000	DATE: 09/19/12	PROJECT NUMBER: 1232.01 T61

DESIGNED BY:		REVISIONS		
OS	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
OS				
CHECKED BY:				
NG				
APPROVED BY:				
DW				



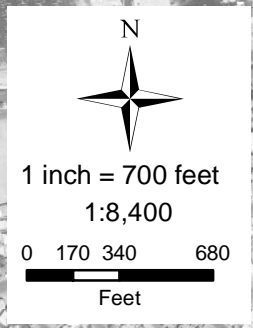
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MANGANESE TAILINGS PILE AREA

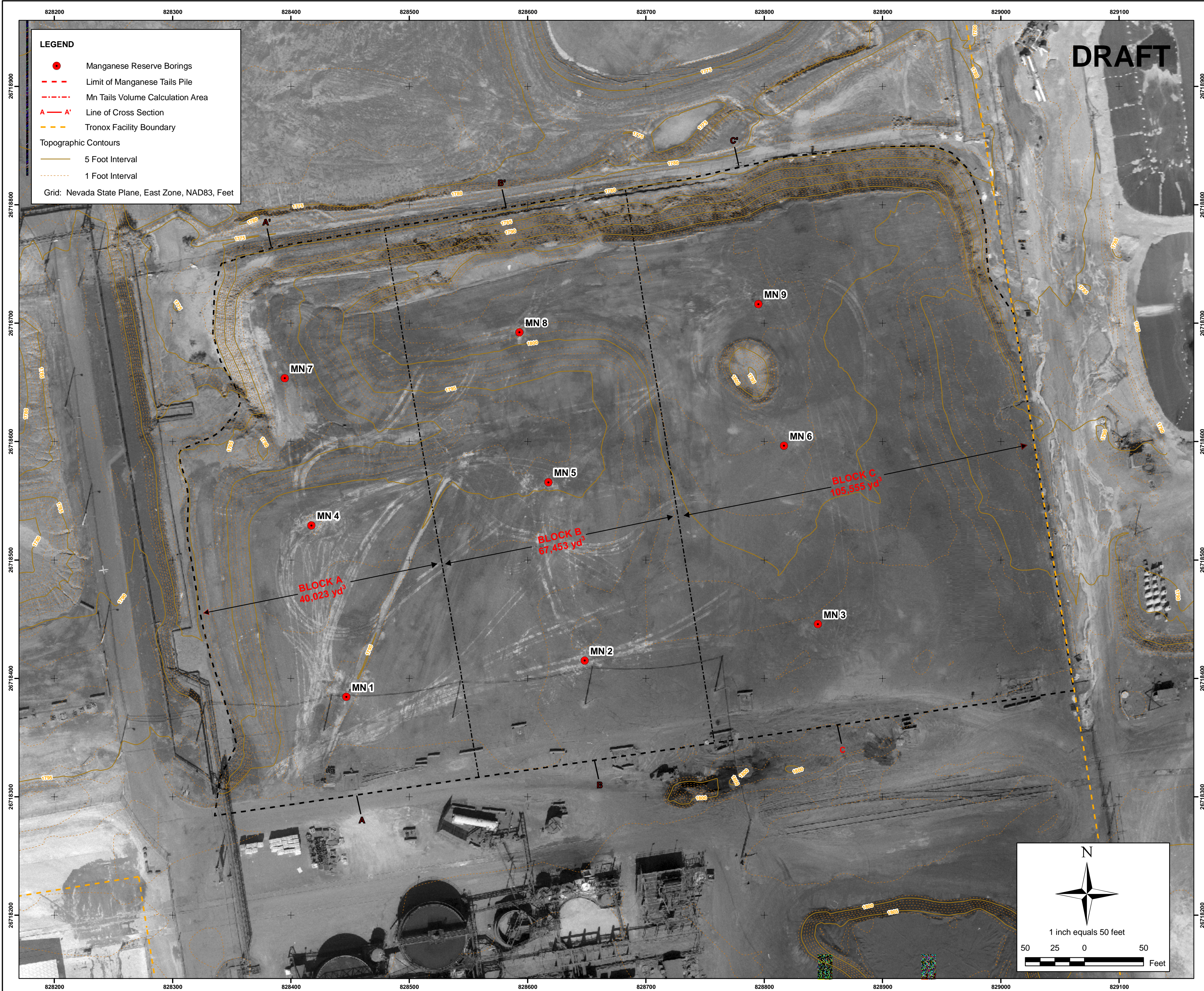


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1

MANGANESE TAILINGS PILE AREA LOCATION MAP		
Manganese Tailings Removal Technical Memorandum Nevada Environmental Response Trust Site Henderson, Nevada		
SCALE: 1:24,000	DATE: 09/19/2012	PROJECT NUMBER: 1232.01 T61

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CHECKED BY:				
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LEGEND

- Manganese Reserve Borings
- Limit of Manganese Tails Pile
- Mn Tails Volume Calculation Area
- A-A' Line of Cross Section
- Tronox Facility Boundary

Topographic Contours

- 5 Foot Interval
- 1 Foot Interval

Grid: Nevada State Plane, East Zone, NAD83, Feet

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EK		OS		NG		DW	
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REVISIONS:							
NO.:	DESCRIPTION:						

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**MANGANESE TAILINGS
PILE VOLUME CALCULATION**

Manganese Tailings Removal Technical Memorandum
Nevada Environmental Response Trust Site
Henderson, Nevada

SCALE:	DATE:	PROJECT NUMBER:
1:600	09/19/2012	1232.01 T61

FIGURE NUMBER:
3

SHEET NUMBER:
X

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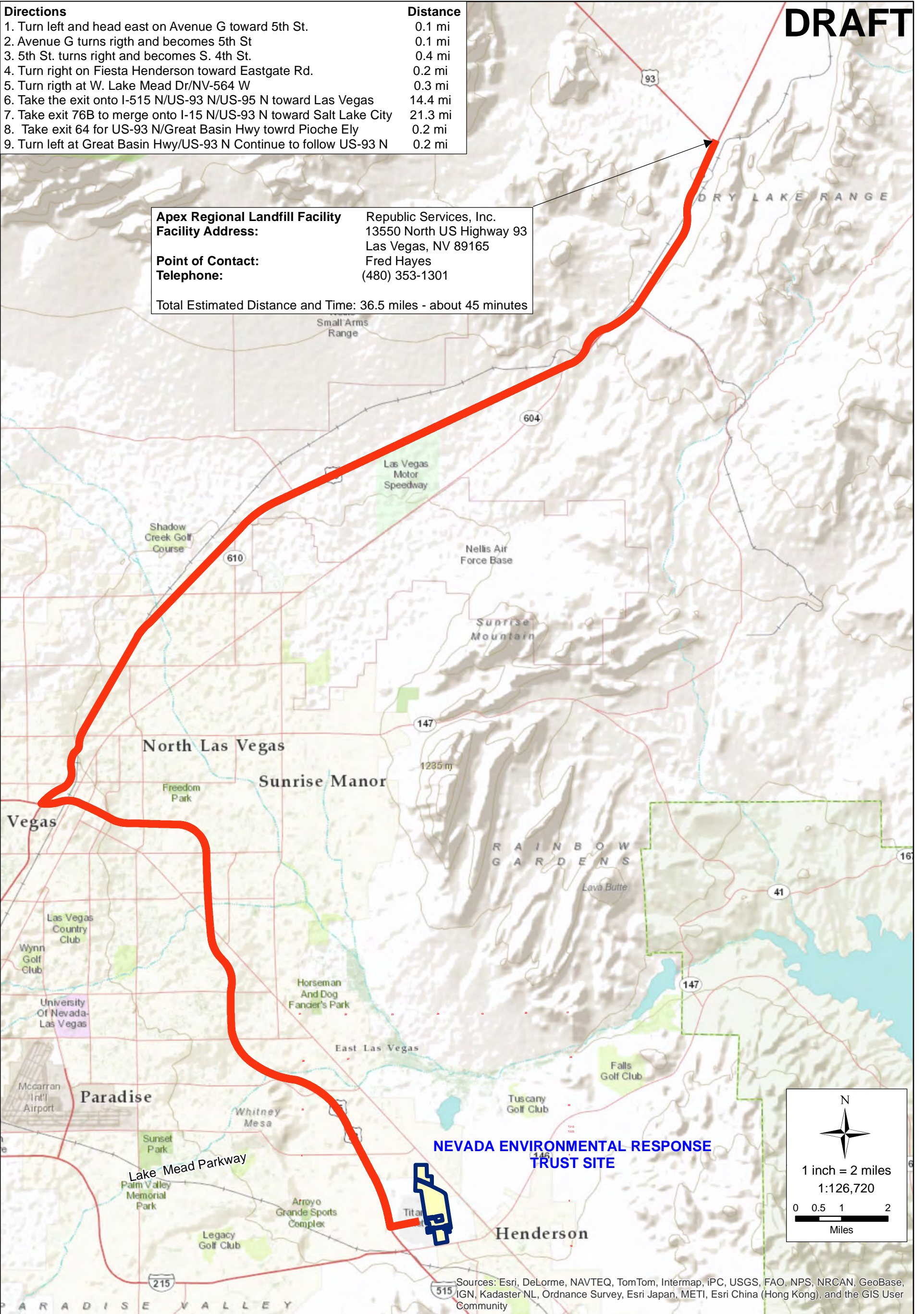
Directions

- | | |
|---|---------|
| 1. Turn left and head east on Avenue G toward 5th St. | 0.1 mi |
| 2. Avenue G turns right and becomes 5th St | 0.1 mi |
| 3. 5th St. turns right and becomes S. 4th St. | 0.4 mi |
| 4. Turn right on Fiesta Henderson toward Eastgate Rd. | 0.2 mi |
| 5. Turn right at W. Lake Mead Dr/NV-564 W | 0.3 mi |
| 6. Take the exit onto I-515 N/US-93 N/US-95 N toward Las Vegas | 14.4 mi |
| 7. Take exit 76B to merge onto I-15 N/US-93 N toward Salt Lake City | 21.3 mi |
| 8. Take exit 64 for US-93 N/Great Basin Hwy toward Pioche Ely | 0.2 mi |
| 9. Turn left at Great Basin Hwy/US-93 N Continue to follow US-93 N | 0.2 mi |

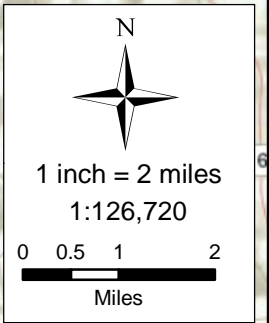
Distance

- | |
|---------|
| 0.1 mi |
| 0.1 mi |
| 0.4 mi |
| 0.2 mi |
| 0.3 mi |
| 14.4 mi |
| 21.3 mi |
| 0.2 mi |
| 0.2 mi |

Apex Regional Landfill Facility
Facility Address: Republic Services, Inc.
 13550 North US Highway 93
 Las Vegas, NV 89165
Point of Contact: Fred Hayes
Telephone: (480) 353-1301
 Total Estimated Distance and Time: 36.5 miles - about 45 minutes



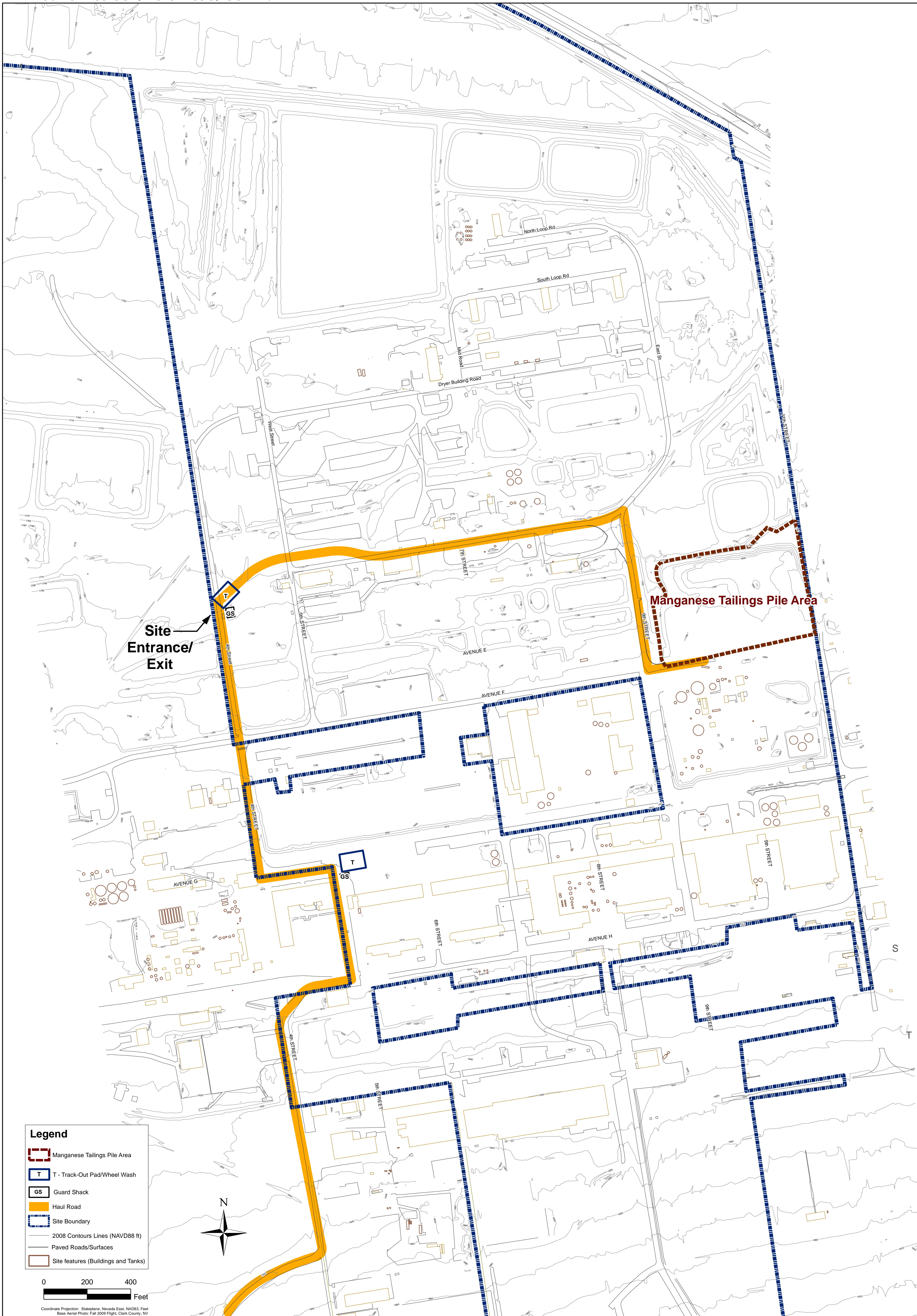
NEVADA ENVIRONMENTAL RESPONSE TRUST SITE



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community

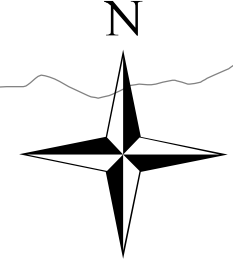
SHEET NUMBER: 1	FIGURE NUMBER: 4	ROUTE TO APEX LANDFILL		
		Manganese Tailings Removal Technical Memorandum Nevada Environmental Response Trust Site Henderson, Nevada		
SCALE: 1:126,720	DATE: 09/19/12	PROJECT NUMBER: 1232.01 T61		

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OS	NO.:	DESCRIPTION:	DATE:	BY:
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CHECKED BY:				
APPROVED BY:				



Legend

- Manganese Tailings Pile Area
- T T - Track-Out Pad/Wheel Wash
- GS Guard Shack
- Haul Road
- Site Boundary
- 2008 Contours Lines (NAVD88 ft)
- Paved Roads/Surfaces
- Site features (Buildings and Tanks)



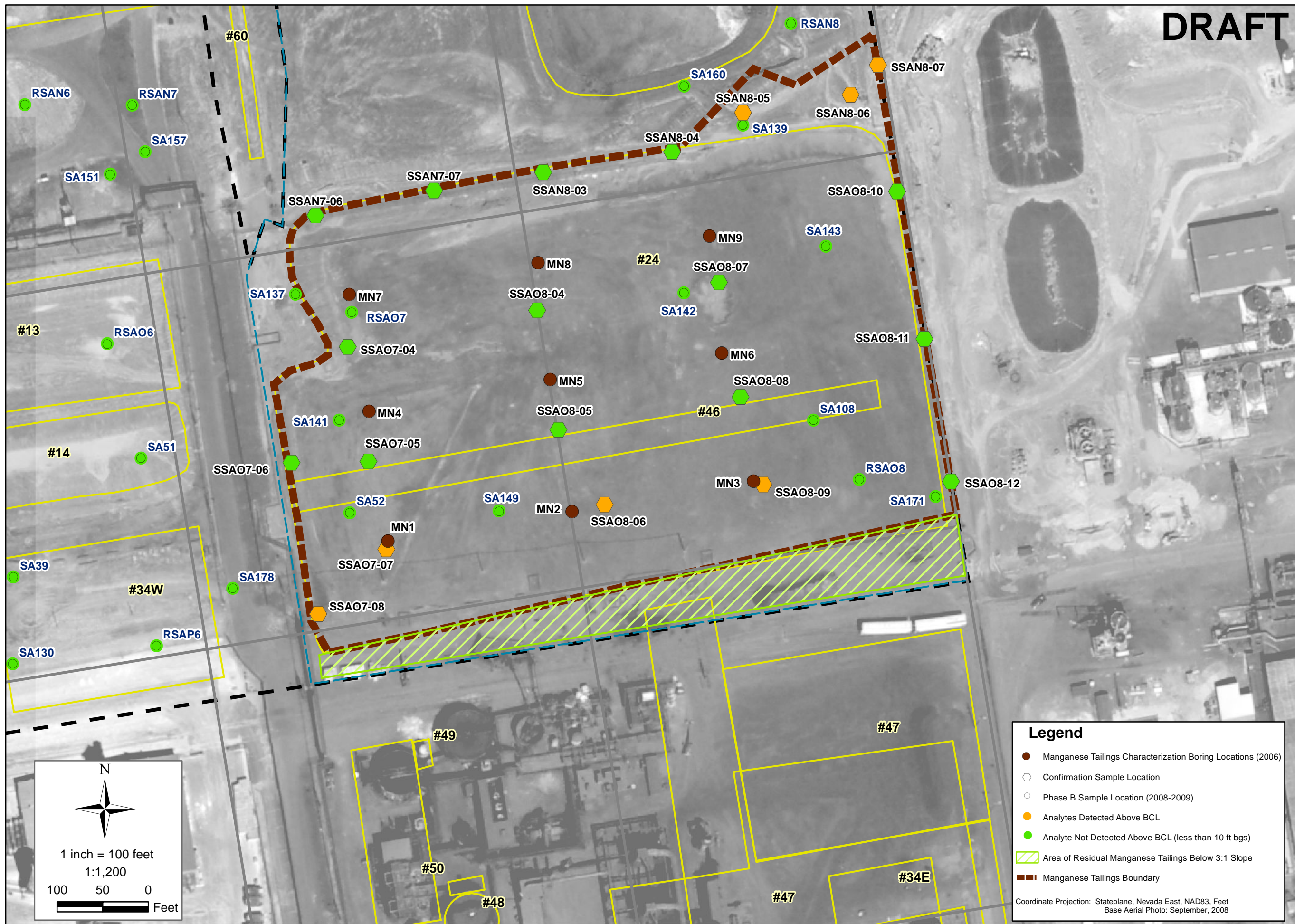
Coordinate Projection: Stateplane, Nevada East, NAD83, Feet
Base Aerial Photo: Fall 2009 Flight, Clark County, NV

SHEET NUMBER: 1	FIGURE NUMBER: 5	ON-SITE TRANSPORTATION ROUTE Manganese Tailings Removal Technical Memorandum Nevada Environmental Response Trust Site Henderson, Nevada	DESIGNED BY: NO.:	REVISIONS DESCRIPTION:	DATE:	BY:
		SCALE: 1 in = 200 ft	DATE: 09/20/2012	PROJECT NUMBER: 1232.01 T61	DRAWN BY: NGEM	CHECKED BY: NGEM

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M:\01_Projects\1232_Environ\1232.01_TRX_ECAIT61_SOW18_MN_Tails_P1232_01_T61_SOW18_MN_Tails_TechMemo_F06_PrefConf_Sample_Locations_20120919.mxd 9/24/2012

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Legend

- Manganese Tailings Characterization Boring Locations (2006)
- Confirmation Sample Location
- Phase B Sample Location (2008-2009)
- Analytes Detected Above BCL
- Analyte Not Detected Above BCL (less than 10 ft bgs)
- ▨ Area of Residual Manganese Tailings Below 3:1 Slope
- ▬ Manganese Tailings Boundary

Coordinate Projection: Stateplane, Nevada East, NAD83, Feet
Base Aerial Photo: September, 2008

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KH	DATE:		
CW			
DW			

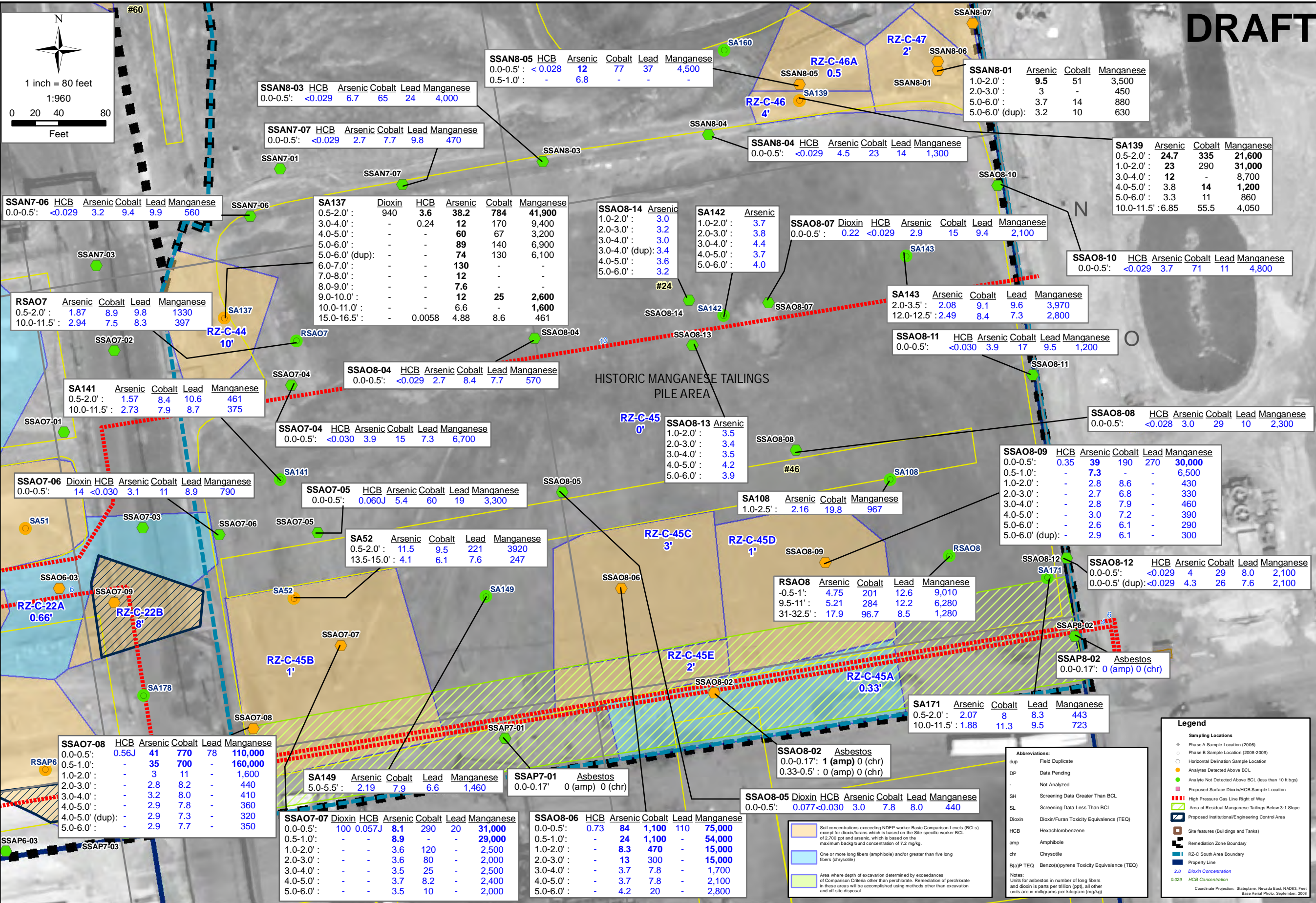
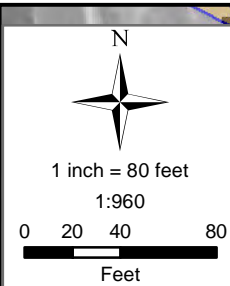
LOCATION OF PHASE B AND PRECONFIRMATION SOIL BORINGS
Manganese Tailings Removal Technical Memorandum
Nevada Environmental Response Trust Site
Henderson, Nevada

SCALE: 1 in = 100 ft
DATE: 09/24/2012
PROJECT NUMBER: 1232.01 T61

FIGURE NUMBER:
6

SHEET NUMBER:
1

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REVISIONS:	
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DESCRIPTION:	
DATE:	
BY:	

LOCATION OF REMEDIATION POLYGONS AND PRE-CONFIRMATION AND CONFIRMATION SOIL SAMPLES

Manganese Tailings Removal Technical Memorandum
Nevada Environmental Response Trust Site
Henderson, Nevada

PROJECT NUMBER: 1232.01 T61
DATE: 09/24/2012
SCALE: 1 in = 80 ft

FIGURE NUMBER: **7**

SHEET NUMBER: **1**