Prepared for

U.S. Fish and Wildlife Service
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2012 ANNUAL REPORT

CERCLA Non-time Critical Removal Action
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE
MIDWAY ISLAND
Contract No. F11PC00327

Prepared by

NW Demolition and Environmental
A Joint Venture

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25 January 2013

2012 Annual Report
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1.0 INTRODUCTION

NW Demolition and Environmental (NWDE) has prepared this 2012 Annual Report for the U.S. Fish and Wildlife Service (FWS) as part of its contract to complete a non-time critical removal action (NTCRA) relating to the removal of lead-based paint (LBP) from structures and lead-contaminated soil at Sand Island, Midway Atoll National Wildlife Refuge (Refuge or Site). The removal action is being performed by the FWS under the Comprehensive Environmental Response, Compensation, and Liability Act, (CERCLA) clean up authorities [42 United States Code (USC) 9604, 10 USC 2705], Federal Executive Order 12580 and the July 7, 2011 "*Action Memorandum for a Non-Time Critical Removal Action at Midway Atoll National Wildlife Refuge*".

This report documents the activities executed on-island as part of this contract between 20 June and 25 September 2012. The work was conducted in general accordance with the CERCLA Guidelines and the Removal Action Work Plan (RAWP) dated February 29, 2012 and the site-specific Health and Safety Plan (HASP) (Geosyntec, 2012).

2.0 BACKGROUND

A January 2011 Engineering Evaluation/Cost Analysis (EE/CA) (GeoEngineers, 2011) evaluated CERCLA NTCRA alternatives based on a cleanup goal of 75 milligrams per kilogram (mg/kg) for lead in soil. Of the alternatives evaluated, the EE/CA identified Alternative 3 as the chosen method to complete the removal action in each of the 9 Decision Units (DU). Figure 1 details the layout with each DU. In general, the scope of work involves: 1) LBP removal from existing structures and re-painting using encapsulation paint; 2) asbestos containing materials (ACM) removal/treatment and demolition with off-site disposal; 3) excavation and on-site treatment and consolidation of lead-contaminated soil; and 4) demolition of several buildings and two above-ground oil storage tanks (AST).

Copies of the daily field logs for the 2012 field season are provided in Appendix A. Due to its volume, Appendix A has been included in a separate binder. Appendix B contains printed copies of a limited number of site photographs and a digital video disk (DVD) that contains copies of photographs taken during the 2012 field season.

The Removal Action will be conducted over multiple years while the majority of the birds are not present on the site. This period is generally July through October of each year. Work elements by year are as follows:

- 2011 – Placing Shade Cloth over the excavation areas in DU1, DU2 and DU6; and lead abatement of Buildings 349, 363, and 357 in DU6 (Complete);
- 2012 – Design and construction of R-2 and removal actions for DU1 and DU6. (Complete); and
- 2013 – Removal action for DU2.
- 2014 – Removal action for DU4.
- 2015 – Removal actions for DU5 and DU7.
- 2016 – Removal actions for DU3 and DU8.
- 2017 – Removal action for DU9.

Depending on the availability of funding, the proposed schedule may be adjusted.

3.0 2012 FIELD WORK

The following sections summarize the work completed during the 2012 construction season.

3.1 Decision Unit 1

DU1 consists of the former cable buildings (Buildings 619, 623, 626, 628 and 643). Field work within DU1 consisted of the following activities.

3.1.1 Lead Abatement of Building 643

NWDE contracted Iniki Enterprises Ltd (Iniki) to perform the abatement of LBP from Building 643. Building 643 underwent removal of all loose and flaky paint from all surfaces including all doors, windows and trims and was encapsulated with Lead Stop® paint on all sides from top to bottom..

Following establishment of an exclusion zone, the placement of plastic groundcover in the area, and sealing off surfaces that were not to be abated, a MAECTITE®/water solution was applied to the surface of Building 643. Following a reaction period, loose, flaking paint chips were removed using hand tools (scrapers). Where surfaces were inaccessible due to safety concerns, loose, flaking paint chips were removed using a power washer. Abated surfaces were rinsed clean by means of a power washer with a detergent (Simple Green®)/water solution. Clean, abated surfaces were then primed with one coat of Lead Stop® primer paint within 24 hours of abatement (after the detergent/water solution had dried). Cracks in concrete were sealed with an acrylic latex caulk. Abated surfaces were then primed and painted with one coat of the top coat paint.

Paint chips were swept and vacuumed up immediately following abatement and secured along with soiled polyethylene sheeting drop cloths, personal protective equipment (PPE) and other LBP waste. Abatement waste was stored and secured in a shipping container at the airport hangar for future transportation and disposal.

3.1.2 Demolition of Buildings 619, 623, 626 and 628

Demolition of the buildings was completed using a variety of heavy equipment. Care was taken to maintain the materials within the building footprint. The goal of this initial bulk demolition process was to lower the materials to the ground in a safe and controlled fashion, limiting the production of fugitive dust and the risk of flying debris. Water was used for dust suppression purposes during demolition activities.

In accordance with the RAWP, demolition debris was separated into five categories; 1) treated concrete; 2) clean concrete; 3) scrap metal; 4) clean wood; and 5) polyvinyl chloride (PVC) piping. Table 1 provides a summary of the building debris generated during demolition activities. In summary:

- 77 loads of MAECTITE® treated demolition debris were hauled to the R-2 unit for disposal.
- 17 loads of clean concrete, 20 loads of scrap metal, 6 loads of clean wood and 1 load of polyvinyl chloride (PVC) pipe were hauled to the designated staging area near the Sea Plane Hangar and stockpiled.

3.1.2.1 Lead and Asbestos Air Monitoring

NWDE contracted GlobeTeck Group, Inc. (GlobeTeck) to complete the third party monitoring of lead and asbestos in air during the demolition of structures in DU1.

The laboratory results of the lead samples were below the regulatory limits and/or action levels (30 micrograms per cubic meter [$\mu g/m^3$]); therefore, additional lead sampling was not required. Based on the laboratory results, review of the laboratory quality control samples and the observation of the industrial hygienist, lead air monitoring was recommended to be discontinued.

The former cable buildings that were demolished contained limited volumes of asbestos containing material (ACM). Due to the severely deteriorated nature of the cable buildings, it was determined that entry into the structures for ACM abatement was not practical due to safety concerns. As such, buildings were demolished with the ACM present. During the building demolition activities, Globeteck, collected air samples to verify that dust control manners were implemented, and the work was performed in a manner consistent with regulatory requirements. Air samples were analyzed by Globeteck in accordance with NIOSH Method 7400. All samples read tested lower than 0.01 microns per cubic centimeter well within regulatory limits set forth by OSHA and EPA standards.

A copy of Globeteck's reports for lead monitoring and asbestos monitoring in DU1 are included in Appendix D.

3.1.3 Excavation of Soil

Prior to excavation, shade cloth that was placed in 2011 was removed and liquid MAECTITE® was applied to soils within the designated excavation area. Based on the previous treatment study, the minimum prescribed application rate was 0.75 gallons of MAECTITE® per cubic yard of soil processed. The actual application rates are provided

below. After the MAECTITE® had soaked into the target area the soil was disrupted and mixed to homogeneity to the prescribed excavation depth (1 foot). Following an approximate three-hour reaction time period, the soil was ready for excavation and transportation to the R-2 unit. Soil was then loaded into a six-wheel articulating off-road truck and transported to the R-2 unit. Dust control measures (water) were used to prevent fugitive dust during the excavation.

Soil below the prescribed excavation depth was treated with MAECTITE®, mixed in-place with an excavator, covered with a geotextile, and backfilled with clean beach sand from the borrow area. Section 3.1.5 of this report provides details on the witness barrier and Section 3.1.7 discussed the backfilling of DU1.

During the 2012 field event, the volume of soil per truck was estimated at approximately 22 cubic yards (cy) per load. The volume of excavated soil noted on the daily field reports reflected this estimate. In December 2012, representatives of Geosyntec obtained field measurements of the volume of soil present in the R-2 unit. Based on the field measurements, the total volume of material was approximately 7,300 cy. Using a compaction factor of 10%, the bulk volume of soil is approximately 8,030 cy. Based on these estimates, we have determined that the actual volume of soil per truck was closer to 15 cy per load. For this report, a 15 cy per truck volume estimate was used.

In total, approximately 4,700 cubic yards (cy) of soil were removed from DU1. Table 1 provides a summary of the soil excavation volumes and Figure 2 shows the extent of soil excavation from DU1.

Approximately 5,400 gallons of MAECTITE® were applied to DU1. Of this, approximately 4,280 gallons were applied to soils that were excavated, 1,030 gallons were applied to the bottom of the excavation limits and 88 gallons were applied to demolition debris. The approximate application rate for MAECTITE® on excavated soils was 1.09 gallons per cubic yard. Table 1 also provides a summary of the MAECTITE® use during 2012.

3.1.4 Confirmation Sampling

Following completion of any single excavation (i.e. that associated with a single building), confirmation samples were collected to document the remaining lead concentrations. Confirmation samples were obtained using multiple increments sampling (MIS) methodology. Procedures for the MIS procedures were provided in the Field Sampling Plan (FSP), which was included as Appendix B of the RAWP.

Confirmation sample areas were determined in the field based on excavation limits and building layouts. Once the sample area was determined, each area was divided into 30 or 32 approximately equally sized areas. Random points were then picked in each of the sub-divisions for collection of an increment sample. Two additional random points were also then selected in each of the sub-divisions for collection of an increment for both duplicate samples. This process was repeated until all 30 (or 32) sub-divisions have had an increment collected (plus the 2 duplicates).

For the samples and duplicates collected around buildings 349, 643, 626 four transects evenly spaced out through the source area (aligned length wise) were sampled with ten incremental samples per transect. The first incremental sampling location was randomly selected along the length of each transect. Each incremental sample was collected at the base of the excavation. The incremental samples were submitted to TestAmerica' s laboratory in Honolulu, Hawaii for compositing and analysis using MIS laboratory methods and techniques.

In total, five MIS samples and 10 duplicate/triplicate samples were collected from the excavation boundaries of DU1. Table 2 provides a summary of the confirmation sampling results and Figure 2 shows the location of each MIS sampling area. For DU1, the confirmation samples were collected from soils below the exaction limits (1 foot) and were collected prior to the placement and mixing of the MAECTITE® and the witness barrier. As such, the detection of lead in these samples is not unexpected.

Lead was detected in each sample and duplicate at concentrations ranging from 56 mg/kg to 300 mg/kg. Appendix E contains a copy of TestAmerica' s laboratory results.

3.1.5 Witness Barrier Installation

Following excavation of the treated soils in DU1, SunBlocker™ Premium 70% or 80% Shade Cloth was used to cover the floor of the final excavation to act as a physical barrier to burrowing Bonin petrels. At the same time, the barrier allows for infiltration of water and also serves as a witness layer to notify those conducting future construction excavations of the potential presence of lead. The shade cloth was manually installed on the floor of the excavation and adjacent panels were overlapped a minimum of 12 inches.

3.1.6 Historical Items

During the demolition and excavation work in DU1, a number of potential historically significant items were identified. NWDE and Geosyntec documented the presence and location of potential historical items in a series of memorandums. In order to assist with the documentation of the historical items, the FWS contracted an archaeologist to

provide oversight. Appendix C contains a copy of the previously submitted memorandums.

3.1.7 Backfilling – Decision Unit 1

DU1 was backfilled with clean sand from the borrow area between the fuel pier and cargo pier. The clean sand was excavated with a Volvo 290 or Caterpillar 308 excavator (or similar sized machines) and hauled in an off-road truck to DU1. The sand was dumped and carefully spread so as not to disturb the previously installed witness layer. In total, 5,775 cubic yards of clean backfill were transported and spread at DU1 (based on a 15 cy per truck average). Table 1 provides a summary of the clean backfill volume.

3.2 <u>Decision Unit 6</u>

DU6 includes eight Albert Kahn industrial buildings and the surrounding soils located in the central portion of the site. This includes, the paint shop (Building 392), cold storage building (Building 349), transportation shop (Building 356), carpenter shop (Building 353), metal shop (Building 357), recycling storage building (Building 363) and the soils around the seaplane hangar (Building 151) and the SK1 warehouse (Building 393). Figure 1 shows the location of these structures. Field work completed within DU6 is described below..

3.2.1 Lead Abatement of Building 356

NWDE contracted Iniki to perform the abatement of LBP from Building 356. Building 356 underwent removal of loose and flaky paint from of all surfaces including all doors, windows and trims and was encapsulated with Lead Stop® paint on all sides from top to bottom. The methods used for the abatement of lead as described for Building 643 (Section 3.1.1 of this Report).

3.2.1.1 Lead Air Monitoring

GlobeTeck completed the third party monitoring of lead in air during excavation activities in DU6. The laboratory results of the lead monitoring were below the regulatory limits and/or action levels (30 $\mu g/m^3$); therefore, continued lead monitoring was not required. Based on the laboratory results, review of the laboratory quality control samples and the observation of the industrial hygienist, lead air monitoring was recommended to be discontinued. Copies of Globeteck's reports for lead monitoring in DU6 are included in Appendix D.

During the 2012 field activities, additional air monitoring was conducted by Iniki in support of LBP abatement activities. A number of upwind and downwind air

monitoring samples were collected in 2012. All 2012 sample results were below the laboratory reporting limit Appendix F contains a copy of the Iniki personal air monitoring results for 2012.

3.2.2 Excavation of Soil

Excavation activities in DU6 were substantially similar to those described in Section 3.1.3 (DU2) of this report.

In total, approximately 3,300 cy of soil were removed from DU6 (based on 15 cy per truck average). Table 1 provides a summary of the soil excavation volumes and Figure 3 shows the extent of soil excavation from DU6.

Approximately 6,750 gallons of MAECTITE® was applied to DU6. Of this, approximately 5,050 gallons were applied to soils that were excavated and 1,700 gallons were applied to the bottom of the excavation limits. The approximate application rate for MAECTITE® on excavated soils was approximately 1.5 gallons per cubic yard. Table 1 also provides a summary of the MAECTITE® use during 2012.

3.2.3 Confirmation Sampling

Confirmation sampling in DU6 was substantially similar to those described in Section 3.1.4 of this report. Confirmation sample areas were determined in the field based on excavation limits and building layouts, as previous described in Section 3.1.4 of this report.

In total, eight MIS samples and 26 duplicate/triplicate samples were collected from the excavation boundaries of DU6. Table 3 provides a summary of the confirmation sampling and Figure 3 shows the location of each MIS sampling area. For DU6, the confirmation samples were collected from soils below the exaction limits (1 foot) and were collected prior to the placement and mixing of the MAECTITE® and the witness barrier. As such, the detection of lead in these samples is not unexpected.

Lead was detected in each sample and duplicate at concentrations ranging from 49 mg/kg to 620 mg/kg.

3.2.4 Witness Barrier Installation

Following excavation of the treated soils in DU6, a witness barrier was placed on the floor of the excavation. The methods used for the placement of the witness barrier are substantially similar to those described for DU2 in Section 3.1.6 of this report.

3.2.5 Backfilling

DU6 was backfilled with clean sand from the borrow area between the fuel pier and cargo pier. The sand was dumped and carefully spread so as not to disturb the previously installed witness layer. In total, approximately 9,660 cubic yards of clean backfill were transported and spread at DU6 (based on a 15 cy per truck average). Table 1 provides a summary of the clean backfill volume.

3.3 R-2 Unit

The R-2 basin is being used for the permanent internment of the stabilized waste materials. In May 2012, Geosyntec provided the FWS with design drawings for the necessary modifications to the R-2 Unit. NWDE constructed the R-2 Unit in accordance with the design plans.

Preparations made to ready the R-2 unit interior to accept treated sand and demolition debris included:

- Removal of residual water from the bottom of the R-2 unit and the pre-existing sumps;
- Sealing of pre-existing drain pipes with a hydraulic cement plug and capping with a compression type cap/plug;
- Creating new penetrations through the base slab approximately 5 feet square, 10 feet upslope from the pre-existing sump location. Two small penetrations were created on either side of the pre-existing sump locations.
- The entry and exit ramp into the R-2 unit was constructed.
- The concrete structure in the south west corner of the R-2 unit was demolished.

A pipe in the middle of the R-2 unit was not abandoned in place. The piping is believed to be constructed with some ACM. The piping in its current state did not delay placement of treated sand and demolition debris during the 2012 field season. The suspect ACM pile will be removed in 2013.

3.4 Treatment Confirmation Sampling

Following annual stockpiling of treated soil in the R-2 consolidation unit, a single treatment confirmation sample (MEP2012) was collected on September 21, 2012 and analyzed using Multiple Extraction Procedure (MEP) by EPA Method 1320. The MEP testing was conducted on treated soils and subjects the same soil sample to successive leaches of acidic solution at a ratio of 20 to 1. The soil-liquid mix is agitated for 24 hours after which the liquid is extracted and analyzed. The soil, without drying, is then weighed and new 20:1 mixture of leachate added for a 24 hour period. This procedure is

repeated nine times. The procedure is designed to evaluate the long term effect of infiltration of acid-rain water through a landfill soil matrix.

The analytical results are included in Table 4. MEP2012 contained lead concentrations ranging from 5.6 to 25 micrograms per liter (μg/l). The MEP method is designed to understand leachability from solid waste caused by infiltration of acid rain, and is intended to simulate 1,000 years of soil exposure to a leaching medium. The method, by subjecting the same solid matrix to successive leaches, effectively subjects the sample to increasing acidity. Therefore, the procedure provides a long term estimate of metal mobility to groundwater from buried waste.

These results are consistent with MAECTITE® performance expectations, and are well below the toxicity characteristic leaching procedure (TCLP) limit (5 mg/l) for lead.

3.5 Additional Borrow Source Sampling

During the 2012 field events, it was determined that the available borrow source material between the fuel and cargo pier may not be adequate to complete all the required backfilling needs. Geosyntec assisted in the collection of representative soil samples from two potential additional borrow sources. The first sample (B2080912) was collected west of DU1. The area consisted of the undeveloped land to the west of the former cable buildings. The second sample (B3082212) was collected from the north beach area, located north of the Clipper House.

The composite sample was analyzed using the following methods:

- MIS for Polyaromatic Hydrocarbons (PAHs) (EPA Method 8270 SIM);
- MIS for Pesticides (EPA Method 8081 and 8081A);
- MIS for Polychlorinated Biphenyls (PCBs) (EPA Method 8082); and
- MIS for Metals (EPA Method 6010B and 6020 and 7471A).

Table 6 documents the analytical results of the source area sample. The laboratory reports from TestAmerica are provided in Appendix E.

Sample B2080912 contained elevated concentrations of DDE and DDT. The second borrow source sample (B3082212) did not contain elevated concentrations of any contaminants analyzed. A review of the borrow source results and discussions of future alternative borrow source locations is on-going.

4.0 BIBLIOGRAPHY

Code of Federal Regulations Title 40: "*Protection of Environment, Chapter I, Subchapter J, Part 300 – National Oil and Hazardous Substances Pollution Contingency Plan*." Available from epa.gov/docs/epacfr40/Chapt-I.info/subch-j.htm; Internet.

GeoEngineers, Inc. 18 January 2011. *Engineering Evaluation/Cost Analysis, Midway Atoll National Wildlife Refuge, Midway Island.*

Geosyntec Consultants, Inc. *Removal Action Work Plan, Removal of Lead-Based Paint From Structures and Lead Lead-Contaminated Soil, Midway Atoll National Wildlife Refuge, Midway Island.*

Hawaii Department of Health, 2008, Environmental Management Division. *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater, Volume 1,* Summer 2008 (updated March 2009).

Hawaii Department of Health, 2009, Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater, Pacific Basin Edition, Summer 2008, updated March 2009.

NAVFAC, 2006. *Environmental Background Analysis of Metals in Soil at Navy Oahu Facilities, Oahu, Hawaii*. June, 2006.

NW Demolition and Environmental, A Joint Venture, 29 February 2012. *Removal Action Work Plan, Removal of Lead-Based Paint from Structures and Lead-Contaminated Soil, Midway Atoll National Wildlife Refuge, Midway Island*

U.S. Environmental Protection Agency (USEPA), 1993. "*Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA*," Office of Solid Waste and Emergency Response, PB93-963402, 9360.0-32, EPA540-R-93-057, August 1993.

U.S. Fish & Wildlife Service, 7 July 2011. Memorandum to Regional Director, Region I, from Assistant Regional Director, Budget and Administration, Region I: *Action Memorandum for a Non-Time Critical Removal Action at Midway Atoll National Wildlife Refuge, Sand Island*.

TABLES

TABLE 1
DAILY SUMMARY
MIDWAY ATOLL NWR

Date	Maectite Totals (gal)				Treated Soil Totals[1]			DU6 Clean Backfill Totals[1]		DU1 Clean Backfill Totals[1]			Demolition Load Count				
	Applied to Soils (DU6)	Applied to Soils (DU1)	Applied to Demolition Debris (DU1)	Cumulative Total	Treated Soil (Loads)[2]	Excavated / Hauled to R-2 Unit (CY)	Excavated / Hauled to R-2 Unit Cumulative Total (CY)	Excavated / Placed from Cargo Pier Borrow Area (CY)	Cumulative Total (CY)	Excavated / Placed from Cargo Pier Borrow Area (CY)	Excavated / Placed from DU6 (CY)	Cumulative Total (CY)	Treated Concrete (Loads)[2]	Clean Concrete (Loads)[3]	Metal Debris (Loads)[3]	Clean Wood (Loads)[3]	PVC Pipe (Loads)[3]
6/29/2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/30/2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/2/2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/3/2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/5/2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/6/2012	NR	0	0	NR	0	0	0	0	0	0	0	0	0	0	0	0	0
7/7/2012	NR	0	0	NR	0	0	0	0	0	0	0	0	0	0	0	0	0
7/9/2012	NR	0	0	1,750	0	0	0	0	0	0	0	0	0	0	0	0	0
7/10/2012	500	0	0	2,250	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/2012	250	0	0	2,500	0	0	0	0	0	0	0	0	0	0	0	0	0
7/12/2012	0	0	0	2,500	20	300	300	0	0	0	0	0	0	0	0	0	0
7/13/2012	250	0	0	2,750	16	240	540	0	0	0	0	0	0	0	0	0	0
7/14/2012	500	0	0	3,250	20	300	840	0	0	0	0	0	0	0	0	0	0
7/16/2012	0	0	0	3,250	20	300	1,140	0	0	0	0	0	0	0	0	0	0
7/17/2012	NR	0	0	NR	20	300	1,440	0	0	0	0	0	0	0	0	0	0
7/18/2012	250	0	0	3,500	24	360	1,800	0	0	0	0	0	0	0	0	0	0
7/19/2020	250	0	0	3,750	19	285	2,085	0	0	0	0	0	0	0	0	0	0
7/20/2012	0	0	7	3,757	17	255	2,340	0	0	0	0	0	5	1	1	0	0
7/21/2012	0	0	9	3,766	26	390	2,730	0	0	0	0	0	0	0	3	0	0
7/22/2012	0	0	0	3,766	0	0	2,730	0	0	0	0	0	0	0	0	0	0
7/23/2012	0	0	28	3,794	17	255	2,985	0	0	0	0	0	12	0	0	1	0
7/24/2012	21	0	0	3,815	10	150	3,135	0	0	0	0	0	14	2	1	1	0
7/25/2012	264 [4]	0	8	4,087	0	0	3,135	0	0	0	0	0	0	1	3	1	0
7/26/2012	532 [4]	0	10	4,629	0	0	3,135	0	0	0	0	0	17	0	2	1	0
7/27/2012	352 [4]	0	8	4,989	0	0	3,135	255	255	0	0	0	5	1	1	0	0
7/28/2012	37	0	18	5,044	3	45	3,180	0	255	0	0	0	13	0	1	0	0
7/30/2012	63	0	0	5,107	6	90	3,270	540	795	0	0	0	5	0	2	0	0
7/31/2012	40	0	0	5,147	1	15	3,285	1,095	1,890	0	0	0	6	2	0	2	0
8/1/2012	0	0	0	5,147	0	0	3,285	1,050	2,940	0	0	0	0	0	1	0	0
8/2/2012	0	0	0	5,147	0	0	3,285	900	3,840	0	0	0	0	1	1	0	0
8/3/2012	0	0	0	5,147	0	0	3,285	1,335	5,175	0	0	0	0	0	0	0	0
8/4/2012	0	0	0	5,147	0	0	3,285	45	5,220	0	0	0	0	0	0	0	0
8/6/2012	0	0	0	5,147	0	0	3,285	0	5,220	0	0	0	0	0	0	0	0
8/7/2012	0	394	0	5,541	0	0	3,285	0	5,220	0	0	0	0	0	0	0	0
8/8/2012	0	606	0	6,147	0	0	3,285	0	5,220	0	0	0	0	0	0	0	0
8/9/2012	0	584	0	6,731	0	0	3,285	390	5,610	0	0	0	0	0	0	0	0
8/10/2012	0	477	0	7,208	0	0	3,285	780	6,390	0	0	0	0	0	0	0	0
8/11/2012	0	0	0	7,208	0	0	3,285	450	6,840	0	0	0	0	0	0	0	0
8/13/2012	0	0	0	7,208	0	0	3,285	1,170	8,010	0	0	0	0	0	0	0	0
8/14/2012	0	0	0	7,208	0	0	3,285	0	8,010	0	0	0	0	0	0	0	0
8/15/2012	0	0	0	7,208	0	0	3,285	0	8,010	0	0	0	0	6	0	0	0
8/16/2012	0	0	0	7,208	35	525	3,810	0	8,010	0	0	0	0	0	0	0	0
8/17/2012	0	0	0	7,208	41	615	4,425	0	8,010	0	0	0	0	0	0	0	0
8/18/2012	0	0	0	7,208	41	615	5,040	0	8,010	0	0	0	0	0	1	0	0
8/20/2012	0	856	0	8,064	18	270	5,310	0	8,010	0	0	0	0	0	0	0	0
8/21/2012	0	527	0	8,591	28	420	5,730	0	8,010	0	0	0	0	1	0	0	0
8/22/2012	0	293	0	8,884	44	660	6,390	0	8,010	0	0	0	0	0	0	0	0
8/23/2012	0	539	0	9,423	28	420	6,810	0	8,010	0	0	0	0	0	2	0	0
8/24/2012	0	617 [4]	0	10,040	8	120	6,930	0	8,010	0	0	0	0	0	0	0	0
8/25/2012	0	0	0	10,040	0	0	6,930	0	8,010	0	0	0	0	0	0	0	1
8/27/2012	0	365 [4]	0	10,405	0	0	6,930	0	8,010	0	0	0	0	0	1	0	0

TABLE 1
DAILY SUMMARY
MIDWAY ATOLL NWR

Date	Maectite Totals (gal)				Treated Soil Totals[1]			DU6 Clean Backfill Totals[1]		DU1 Clean Backfill Totals[1]			Demolition Load Count				
	Applied to Soils (DU6)	Applied to Soils (DU1)	Applied to Demolition Debris (DU1)	Cumulative Total	Treated Soil (Loads)[2]	Excavated / Hauled to R-2 Unit (CY)	Excavated / Hauled to R-2 Unit Cumulative Total (CY)	Excavated / Placed from Cargo Pier Borrow Area (CY)	Cumulative Total (CY)	Excavated / Placed from Cargo Pier Borrow Area (CY)	Excavated / Placed from DU6 (CY)	Cumulative Total (CY)	Treated Concrete (Loads)[2]	Clean Concrete (Loads)[3]	Metal Debris (Loads)[3]	Clean Wood (Loads)[3]	PVC Pipe (Loads)[3]
8/28/2012	0	0	0	10,405	0	0	6,930	0	8,010	615	0	615	0	0	0	0	0
8/29/2012	0	0	0	10,405	0	0	6,930	0	8,010	735	0	1,350	0	0	0	0	0
8/30/2012	0	0	0	10,405	0	0	6,930	0	8,010	0	825	2,175	0	0	0	0	0
8/31/2012	0	0	0	10,405	0	0	6,930	0	8,010	0	825	3,000	0	0	0	0	0
9/1/2012	0	0	0	10,405	0	0	6,930	0	8,010	0	630	3,630	0	0	0	0	0
9/4/2012	0	0	0	10,405	0	0	6,930	0	8,010	0	885	4,515	0	0	0	0	0
9/5/2012	0	51 [4]	0	10,456	0	0	6,930	0	8,010	0	225	4,740	0	0	0	0	0
9/6/2012	332	0	0	10,788	8	120	7,050	0	8,010	0	165	4,905	0	0	0	0	0
9/7/2012	0	0	0	10,788	17	255	7,305	0	8,010	0	120	5,025	0	0	0	0	0
9/8/2012	325	0	0	11,113	8	120	7,425	0	8,010	0	30	5,055	0	1	0	0	0
9/10/2012	0	0	0	11,113	0	0	7,425	225	8,235	690	0	5,745	0	0	0	0	0
9/11/2012	0	0	0	11,113	0	0	7,425	150	8,385	0	0	5,745	0	0	0	0	0
9/12/2012	0	0	0	11,113	0	0	7,425	0	8,385	30	0	5,775	0	1	0	0	0
9/13/2012	355	0	0	11,468	17	255	7,680	0	8,385	0	0	5,775	0	0	0	0	0
9/14/2012	0	0	0	11,468	11	165	7,845	0	8,385	0	0	5,775	0	0	0	0	0
9/15/2012	358 [4]	0	0	11,826	0	0	7,845	0	8,385	0	0	5,775	0	0	0	0	0
9/17/2012	149	0	0	11,617	11	165	8,010	0	8,385	0	0	5,775	0	0	0	0	0
9/18/2012	181 [4]	0	0	11,798	0	0	8,010	810	9,195	0	0	5,775	0	0	0	0	0
9/19/2012	0	0	0	11,798	0	0	8,010	0	9,195	0	0	5,775	0	0	0	0	0
9/20/2012	0	0	0	11,798	0	0	8,010	270	9,465	0	0	5,775	0	0	0	0	0
9/21/2012	0	0	0	11,798	0	0	8,010	195	9,660	0	0	5,775	0	0	0	0	0
9/22/2012	0	0	0	11,798	0	0	8,010	0	9,660	0	0	5,775	0	0	0	0	0
9/24/2012	0	0	0	11,798	0	0	8,010	0	9,660	0	0	5,775	0	0	0	0	0
9/25/2012	0	0	0	11,798	0	0	8,010	0	9,660	0	0	5,775	0	0	0	0	0

Notes
1. Estimates are based on an estimated 2.5 CY excavator bucket and 15 CY per truck load.
2. Treated soil and concrete loads were hauled to and deposited in the R-2 Unit.
3. Clean concrete, clean metal, clean wood and clean PVC pipe loads were hauled and deposited in separate project stockpiles located near Bldg 151 (Sea Plane Hanger).
4. MAECTITE® applied to soils remaining beneath the excavation.
CY - cubic yard
PVC - polyvinyl chloride
gal - gallon
NR - not recorded

TABLE 2
DU1 CONFIRMATION SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/kg)	Note
619	8/20/2012	59 B	Bldg 619
Dup-13	8/20/2012	59 B	Duplicate of Sample ID 619
Dup-14	8/20/2012	54 B	Duplicate of Sample ID 619
628	8/18/2012	56 B	Bldg 628
Dup-15	8/18/2012	91 B	Duplicate of Sample ID 628
Dup-16	8/18/2012	74 B	Duplicate of Sample ID 628
643	8/22/2012	230 B	Bldg 643
Dup -17	8/22/2012	280 B	Duplicate of Sample ID 643
Dup -18	8/22/2012	300 B	Duplicate of Sample ID 643
623	8/23/2012	190 B	Bldg 623
Dup -19	8/23/2012	140 B	Duplicate of Sample ID 643
Dup - 20	8/23/2012	190 B	Duplicate of Sample ID 643
626	8/24/2012	300 B	Bldg 626
Dup - 21	8/24/2012	180 B	Duplicate of Sample ID 626
Dup - 22	8/24/2012	180 B	Duplicate of Sample ID 626

Notes

Lead was analyzed by EPA Method 6010B following MIS / ICS preparation.

A field rinsate blank sample was collected (Sample ID: FB-072512) and analyzed by EPA Method 6010B for lead only. Result was < 0.03 mg/l.

MIS - multi-incremental sampling

EPA - Environmental Protection Agency

B - Blank contamination. Lead was detected in the laboratory method blank. Detected concentrations were slighly above the method reporting limit. As such, the blank contamination does not affect the usability of the data.

mg/kg - milligram per kilogram

mg/l - milligram per liter

TABLE 3
DU6 CONFIRMATION SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/kg)	Note
353	7/16/2012	71	Bldg 353
Dup-1	7/16/2012	69	Duplicate of Sample ID 353
Dup-2	7/16/2012	72	Duplicate of Sample ID 353
357	7/18/2012	97	Bldg 357
Dup-3	7/18/2012	81	Duplicate of Sample ID 357
Dup-4	7/18/2012	110	Duplicate of Sample ID 357
363	7/21/2012	62	Bldg 363
Dup-5	7/21/2012	120	Duplicate of Sample ID 363
Dup-6	7/21/2012	81	Duplicate of Sample ID 363
349	7/24/2012	59	Bldg 349
Dup-7	7/24/2012	64	Duplicate of Sample ID 349
Dup-8	7/24/2012	49	Duplicate of Sample ID 349
356	7/25/2012	57	Bldg 356
Dup-9	7/25/2012	89	Duplicate of Sample ID 356
Dup-10	7/25/2012	94	Duplicate of Sample ID 356
342	7/31/2012	620	Bldg 342
Dup-11	7/31/2012	460	Duplicate of Sample ID 342
Dup-12	7/31/2012	380	Duplicate of Sample ID 343
151	9/8/2012	81	Bldg 151
Dup - 23	9/8/2012	170	Duplicate of Sample ID 151
Dup - 24	9/8/2012	160	Duplicate of Sample ID 151
393	9/18/2012	110	Bldg 393
Dup - 25	9/18/2012	110	Duplicate of Sample ID 393
Dup - 26	9/18/2012	200	Duplicate of Sample ID 393

Notes

Lead was analyzed by EPA Method 6010B following MIS/ICS preparation.

A field rinsate blank sample was collected (Sample ID: FB-072512) and analyzed by EPA Method 6010B for lead only. Result was < 0.03 mg/l.

MIS - multi-incremental sampling

EPA - Environmental Protection Agency

mg/kg - milligram per kilogram

mg/l - milligram per liter

TABLE 4
MEP SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (µg/l)
MEP 2012	10/17/2012	5.6
		12
		15
		25
		21
		20
		20
		19
		22

Notes
Lead was analyzed by EPA Method 6010C-Leach
EPA - Environmental Protection Agency
µg/l - milligram per liter
The Toxicity Characteristic Leaching Procedure (TCLP) value for lead is 5 milligrams per liter (mg/l)

TABLE 5
ALTERNATIVE BORROW SOURCE ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Analysis Method	Sample ID	B2080912	B3082212	State of Hawaii Environmental Action Levels
	Date Sampled	8/9/2012	8/22/2012	
	Analyte	Result		
Metals - EPA Method 6010B & 7474A (mg/kg)	Arsenic	0.71	<5.9	24
	Barium	10	5.4	1,000
	Cadmium	<0.99	<0.98	14
	Chromium	4.8	4.8	1,145
	Lead	28	<3.0	200
	Selenium	<9.9	<9.8	78
	Silver	<2.0	<2.0	78
	Mercury	0.029	<0.017	4.7
PAHs - EPA Method 8270 SIM (mg/kg)	1-Methylnaphthalene	<0.0015	<0.0016	0.79
	2-Methylnaphthalene	<0.0015	<0.0016	0.87
	Acenaphthene	1.2	<0.0016	118
	Acenaphthylene	<0.0015	<0.0016	12.7
	Anthracene	0.97	<0.0016	4.3
	Benzo(a)anthracene	6.5	<0.0016	1.4
	Benzo(a)pyrene	7.8	<0.0016	10.15
	Benzo(b)flouranthene	11	<0.0016	1.5
	Benzo(g,h,i)perylene	5.7	<0.0016	26.6
	Benzo(k)fluoranthene	4.1	<0.0016	14.8
	Chrysene	9.8	<0.0016	10.5
	Dibenzo(a,h)anthracene	1.5	<0.0016	0.15
	Fluoranthene	<0.0015	<0.0016	86.5
	Fluorene	14	<0.0016	104
	Indeno(1,2,3-cd)pyrene	7.4	<0.0016	1.5
	Naphthalene	<0.0015	<0.0016	4.4
	Phenanthrene	5.2	<0.0016	68.6
	Pyrene	14	<0.0016	44

TABLE 5
ALTERNATIVE BORROW SOURCE ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Analysis Method	Sample ID	B2080912	B3082212	State of Hawaii Environmental Action Levels
	Date Sampled	8/9/2012	8/22/2012	
	Analyte	Result		
Pesticides - EPA Method 8081 & 8081A (mg/kg)	4,4'-DDD	0.0035	<0.00066	2
	4,4'-DDE	0.53	0.000064 J	1.4
	4,4'-DDT	0.1	<0.00066	1.7
	Aldrin	<0.0016	<0.00033	0.92
	alpha-BHC	<0.0016	<0.00033	--
	beta-BHC	<0.0016	<0.00033	--
	delta-BHC	<0.0016	<0.00033	--
	Chlordane	<0.0016	0.00074	16
	Dieldrin	<0.0016	<0.00066	1.5
	Endosulfan I	0.00097	<0.00033	18
	Endosulfan II	<0.0016	<0.00066	18
	Endosulfan sulfate	<0.0033	<0.00066	--
	Endrin	<0.0033	<0.00066	3.7
	Endrin aldehyde	<0.0033	<0.00066	--
	Endrin ketone	<0.0016	<0.00066	--
	gamma-BHC (Lindane)	<0.0016	<0.00033	0.037
	Heptachlor	<0.0033	<0.00066	0.11
	Heptachlor epoxide	<0.0016	<0.00033	0.053
	Methoxychlor	<0.016	<0.0033	16
	Toxaphene	<0.160	<0.033	0.44
	alpha-Chlordane	0.0035	0.00025 J	16
	gamma-Chlordane	0.0024	0.00049	16
PCBs - EPA Method 8082 (mg/kg)	Aroclor 1016	<0.0016	<0.0030	1.1
	Aroclor 1221	<0.0016	<0.0033	1.1
	Aroclor 1232	<0.0016	<0.0033	1.1
	Aroclor 1242	<0.0016	<0.0030	1.1
	Aroclor 1248	<0.0016	<0.0030	1.1
	Aroclor 1254	<0.0016	<0.0030	1.1
	Aroclor 1260	<0.0016	<0.0030	1.1

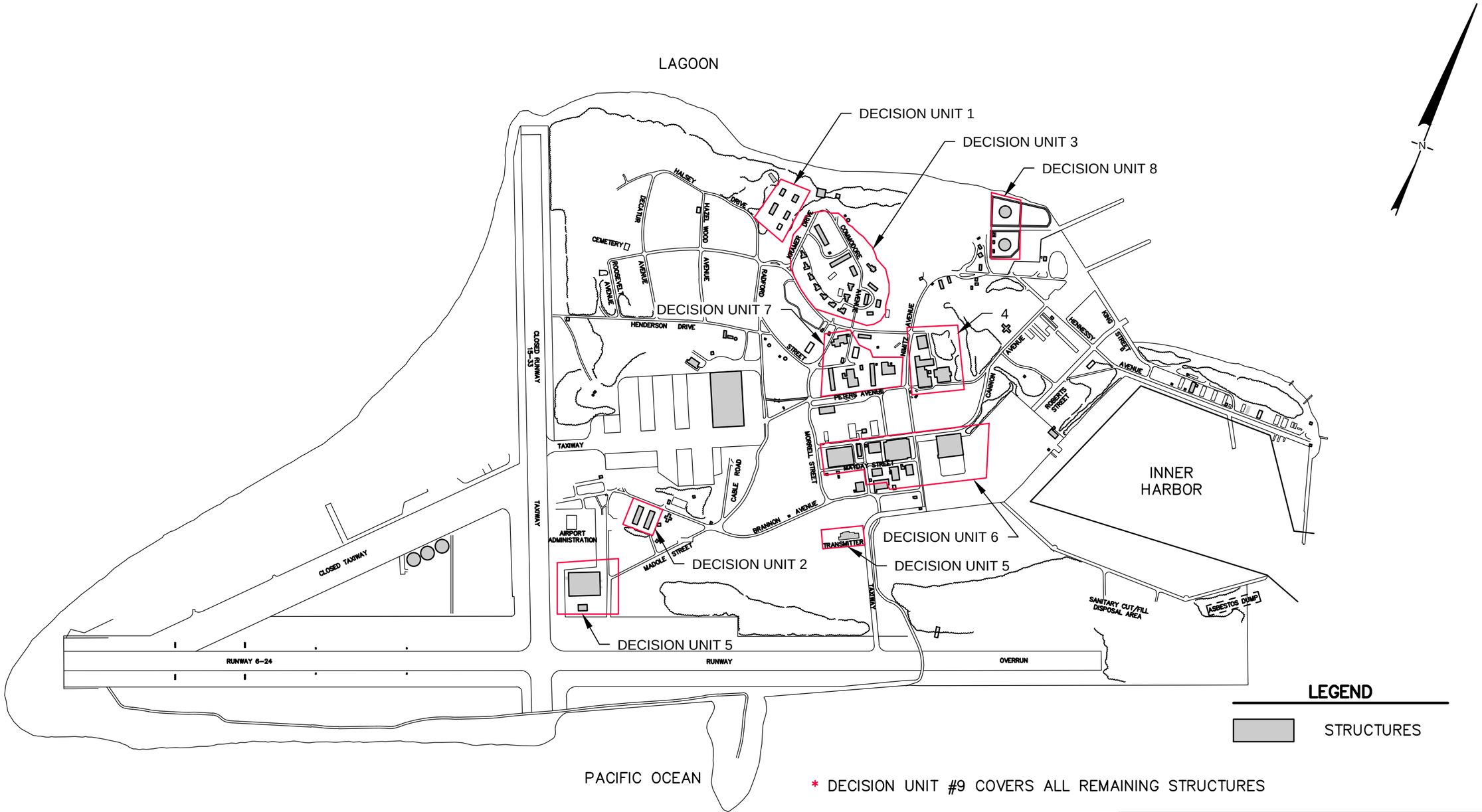
Notes

"<#" is interpreted as not detected above the Reporting Limit concentration

"J:" indicates the value was less than the Reporting Limit but greater than the Method Detection Limit. Value is considered an estimate.

Shading indicates value exceeds State of Hawaii Enviornmental Action Level

FIGURES



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 1000' 2000'

SCALE IN FEET

SITE LAYOUT WITH DECISION UNITS

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

NOVEMBER 2012

Figure: 1

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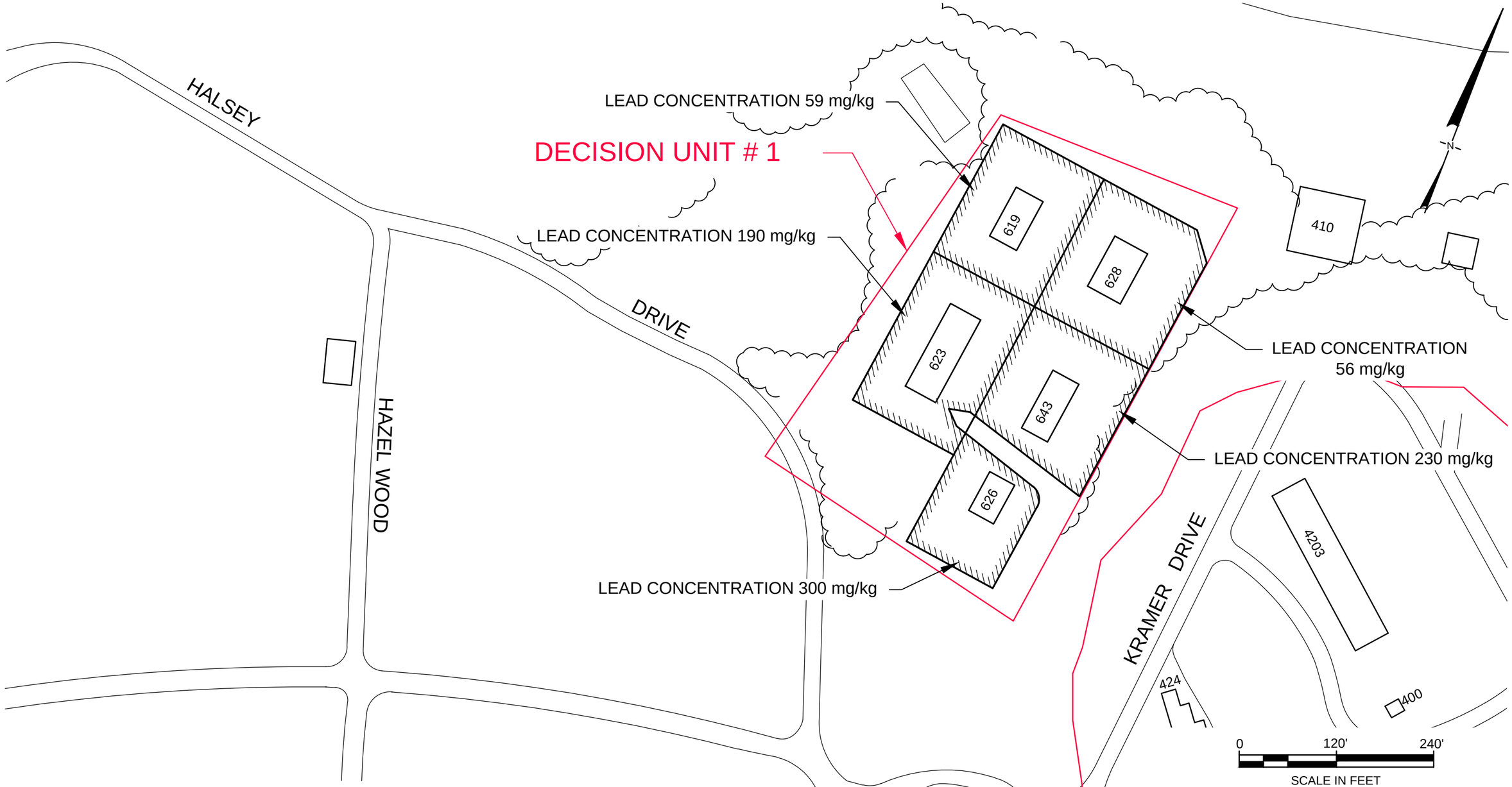

LEGEND

	EXTENT OF EXCAVATION
mg/kg	MILLIGRAM PER KILOGRAM

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

CONFIRMATION SAMPLE RESULTS
DECISION UNIT 1
REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

NOVEMBER 2012

Figure:
2

P:\PRJ\SDC\ADD\CADD\PNG0515 MIDWAY\PNG0515-01-04\FIGURES\PNG0515 F002-3

PETERS AVENUE
3521
2409
S3126
S3127
3501
LEAD CONCENTRATION 59 mg/kg
LEAD CONCENTRATION 57 mg/kg
LEAD CONCENTRATION 81 mg/kg
LEAD CONCENTRATION 620B mg/kg
LEAD CONCENTRATION 110 mg/kg
342
349
356
151
393
MORRELL STREET
9135
MAYDAY STREET
LEAD CONCENTRATION 62 mg/kg
S509
S511
S314
353
357
363
LEAD CONCENTRATION 71 mg/kg
340
554
148
309
S311
LEAD CONCENTRATION 97 mg/kg
DECISION UNIT #6
S361
S137
BRANNON AVENUE
N
0
150'
300'
SCALE IN FEET

LEGEND

EXTENT OF EXCAVATION

mg/kg MILLIGRAM PER KILOGRAM

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

CONFIRMATION SAMPLE RESULTS
DECISION UNIT 6
REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

NOVEMBER 2012

Figure:
3

P:\PRJ\SDCADD\CADD\PNG0515 MIDWAY\PNG0515-01-04\FIGURES\PNG0515 F002-3

APPENDIX A
DAILY FIELD REPORTS
(See separate binder for Appendix A)

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, June 29, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light wind, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	7
Richard Wayper	NWDE Program Manager	7
Everett White	NWDE Super	7
Mike Saiki	NWDE Laborer	7
Jose Ordaz	NWDE Laborer	7
Jevon Stone	NWDE Laborer	7

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Mini-Excavator	CAT 308	NWDE
Skid Steer	Bobcat S185	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0800: NWDE attends USFWS orientation.

NWDE works on preventative maintenance on the truck and equipment left on island during the off season.

NWDE organizes and inventories shipping containers left on island during the off season.

1030 – NWDE inspects R-2 unit for logistics planning. R-2 unit is drained, but residual amount of water remains near sumps.

NWDE inspects area of R-3 unit (below ground cistern, near Marine Barracks).

1200 – Lunch

1245 – NWDE inspects DU1 (Cable Buildings) for logistics planning.

1400 – American Marine barge (with project equipment and supplies) is at dock. American Marine and DBSI are beginning to secure the barge and offload.

1530 – End of day. American Marine and DBSI continue with offloading the barge.

Photographs:

Photo 01 – Albatross population on island.

Photo 02 – Shadecloth between Bldgs. 578 and 579 (DU2, Marine Barracks)

Photo 03: Shadecloth along side of one of the Marine Barracks (DU2)

Photo 04: Barge on island with project equipment and supplies

Site Map

None.

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, June 30, 2011
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, humid, light wind, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	8
Richard Wayper	NWDE Program Manager	8
Everett White	NWDE Super	8
Mike Saiki	NWDE Laborer	8
Jose Ordaz	NWDE Laborer	8
Jevon Stone	NWDE Laborer	8

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 - Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Shipping Containers	13	

Description of Work:

0700: NWDE conducts safety briefing.

DBSI and American Marine continue to offload barge.

0800: All 13 shipping containers are on the ground, NWDE begins to unpack 2 shipping containers to send back on the barge.

1200 – Lunch

1245 – NWDE continues to get organized and move equipment and supplies to the staging area at the NAF building (airport hanger).

1330 – Schott makes field sketches of UG utilities marks within shadecloth of DU6

1530 – End of day. American Marine and DBSI continue with offloading the barge.

Photographs:

Photo 01 – DBSI offloading containers.

Photo 02 – Typical container with Maectite

Photo 03: Unloading containers

Photo 04: Equipment offloaded

Site Map

None.

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, July 2, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light wind, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Jevon Stone	NWDE Laborer	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700: NWDE conducts safety briefing.

0800 – NWDE initiates pumping out the residual water and sediments from the low areas in the R-2 unit.

1000 – Richard, Everett and Michael attend weekly conference call with Mary Ann, USFWS PM.

In lue of a “Pre-Construction Conference/Meeting” related to construction issues at the R-2 unit, informal discussions between US FWS PM and NWDE/Geosyntec on island personnel have focused on the demolition and construction issues and requirements related to the R-2 unit for 2012 field season. Informal discussions continue as warranted.

1100 – NWDE is connecting the concrete breaker attachment to the excavator for use at the R-2 unit.

1200 – lunch.

1245 – NWDE receives a trash pump from DBSI to finish pumping out the water and sediment slurry from the R-2 unit.

NWDE is moving the excavator to R-2 unit and resumes pumping out existing sumps with trash pump.

1300 – Michael completes making field sketch of underground utilities within shadecloth at DU6.

1400 – NWDE reviews proposed haul route with US FWS PM

NWDE breaks out a 5ft by 5ft penetration ten feet from Drain # 2 of the R-2 unit.

NWDE was able to remove the 90 degree bend fittings so that the water tight seal could be made in the pipe (not the fitting originally in place).

NWDE prepares a test seal using the hydraulic cement at all drain locations.

1730 – End of day.

Photographs:

Photo 01 – Typical Existing Sump.

Photo 02 –90 degree bend fitting removed and sealing pipe.

Photo 03: Test seal with hydraulic cement

Photo 04: Broken out 5ft by 5 ft penetration

Site Map

None.

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, July 3, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light wind, Temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Jevon Stone	NWDE Laborer	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Gasoline	~4 gallon	From DBSI

Description of Work:

0700: NWDE conducts safety briefing. Performs “stretch and flex” prior to starting work.

NWDE resumes sealing existing drain pipies with hydraulic cement and breaking out new floor slab penetrations at R-2 unit.

0930 – US FWS PM and NWDE and Geosyntec discuss the water infiltrating up through the new floor penetrations into the R-2 unit and subsequently ponding at the pre-existing sumps / drain pipes. Water is equalizing with shallow groundwater table. Decide to punch a hole thru the floor slab very close to the location of the pre-existing drain sump to allow ponding water to drain if / when shallow groundwater table drops.

1020 – NWDE develops plan for preparing for Maectite deployment in DU6.

NWDE is continuing to seal pre existing drain pipes and breaking up for new penetrations. 2 new holes (1 on either side of the existing sumps) are be added as well. These holes are roughly 2 feet laterally (east and west) from the edge of the pre-existing sumps and are approximately 4 to 6 inches in diameter.

1200 – lunch.

1300 – NWDE get ~4 gallons gas from DBSI for portable gas powered equipment.

1450 – Laysan Ducks (endangered) are in the R-2 unit. NWDE stops work. Pete L., US FWS biologist comes to escort / herd the ducks out of the R-2 unit. Pete removes an adult Laysan Albatross from the R-2 unit that appears to be injured. The cause of the bird injury is not known. Pete indicates if the ducks come back that NWDE personnel can escort / herd the ducks out.

1530 – NWDE completes work on R-2 unit for the day.

1555 – NWDE returns trash pump to DBSI.

NWDE is cleaning up the fire hoses from the trash pump operation and the Bobcat skid steer.

1730 – End of day.

Photographs:

Photo 01 – Typical seal with hydraulic cement.

Photo 02 – Water ponding at Drain # 2.

Photo 03: Typical water ponding near pre-existing sumps.

Photo 04: Typical breaking out of floor slab concrete for new penetrations.

Site Map

None.

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Daily Field Report

Date: Thursday, July 5, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light rain shower in morning then partly cloudy, breezy, temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Laborer	10
Jose Ordaz	NWDE Laborer	10
Jevon Stone	NWDE Laborer	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
7/4/12 -Diesel	112 gallon	From DBSI

Description of Work:

7/4/12 – NWDE receives diesel

0700: NWDE conducts safety briefing.

NWDE starts preparing the area between Bldg 353 and 357 in DU6 to treat with Maectite by removing sandbags and shadecloth.

0800 – Michael records as built measurements for the new penetrations in the R-2 unit floor slab.

1200 – Lunch.

1245 – NWDE lays out the excavation (survey) grid between Bldg 353 and 357 and begins to rake the surface to accept Maectite.

1730 – End of day.

Note: DBSI begins to remove trees from within the shadecloth at DU1

Note: Bill Schilling, Sevenson, arrives @ ~2130 hrs.

Photographs:

Photo 01 – Shadecloth removed from between Bldg 353 and 357.

Photo 02 – Shadecloth removed from between Bldg 353 and 357.

Photo 03: Custom raking implement on excavator.

Photo 04: Raking area between Bldgs 353 and 357 in preparation to receive Maectite.

Site Map

None.

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, July 6, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light wind, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Bill Schilling	Sevenson Environmental	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700 - NWDE conducts safety briefing.

Bill Schilling indicates safety procedures when working with Maectite

0730 – NWDE shows Sevenson the area prepared for Maectite between Bldgs.353 and 357. NWDE and Sevenson review and setup the pump and piping to be used for Maectite.

NWDE continues to remove shadecloth and set the excavation (surveying) grid north of Bldg 357.

0800 Bill S, Sevenson attends US FWS on-island orientation

0955 – NWDE is preparing to do a test application of Maectite.

NWDE is removing shadecloth north of Bldg 357 and 363.

1005 – Bill S, Sevenson, is out of orientation and helps NWDE with Maectite application setup.

1105 – Sevenson and NWDE apply initial application of Maectite. NWDE uses custom rake implement to mix the Maectite into the sand.

1200 – Lunch.

1230 – Sevenson and NWDE continue applying Maectite in between Bldg 353 and 357 and north of Bldg357.

1730 – End of day.

Photographs:

Photo 01 – Ready for Maectitie application between Bldg 353 and 357.

Photo 02 – Removing Shadecloth north of Bldg 357.

Photo 03: Applying Maectite between Bldgs 353 and 357.

Photo 04: Applying Maectite between Bldgs 353 and 357.

Photo 05: Diluting Maectite in preparation for application.

Photo 06: Mixing Maectite into sand.

Site Map

The attached Site Map shows the limits of Maectite application for the day.

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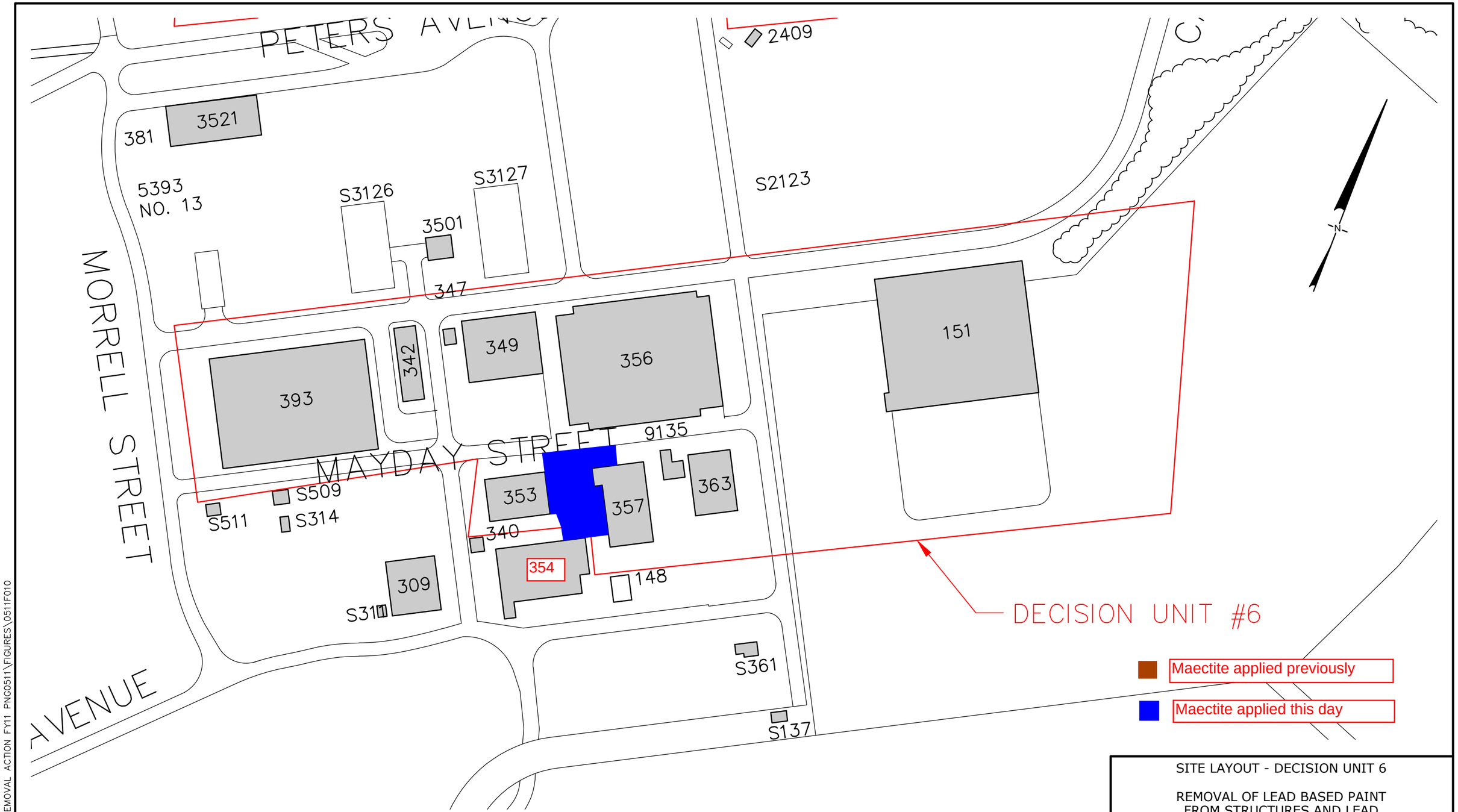

NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, July 7, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, 1 light shower in morning, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Bill Schilling	Sevenson Environmental	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0700 - NWDE conducts safety briefing.

NWDE continues removing shadecloth and setting the excavation (survey) grid in preparation for Maectite application north and east of Bldg 363.

Sevenson and NWDE continues to apply Maectite and rake / mix it into the sand to north of Bldg 363.

1200 – Lunch.

1245 – NWDE continues removing shaecloth and setting the exaction (survey) grid in preparation for Maectite application east and south of Bldg 363.

Sevenson and NWDE continues to apply Maectite and rake and mix it into the sand east and south of Bldg 363.

1530 – Complete Maectite application for the day.

NWDE continues removing shadecloth from between Bldgs 357 and 363 in preparation for Maectite application.

NWDE demolishes an unused pipe rack on the west side of Bldg 363 to access and treat / excavate the sand underneath. NWDE begins to load the debris into an off road truck.

Pete L, USFWS biologist, removed an egg and bird (species?) from within the area of the pipe rack prior to it being demolished.

1730 – End of day.

Photographs:

Photo 01 – Ready for Maectitie application north of Bldg 363.

Photo 02 – Raking / mixing Maectite into sand north of Bldg 357.

Photo 03: Recently applied Maectite north of Bldg 363.

Photo 04: Construction fence to keep birds out of work area.

Photo 05: Raking / mixing after Maectite spplication.

Site Map

The attached Site Map shows the limits of Maectite application for the day.

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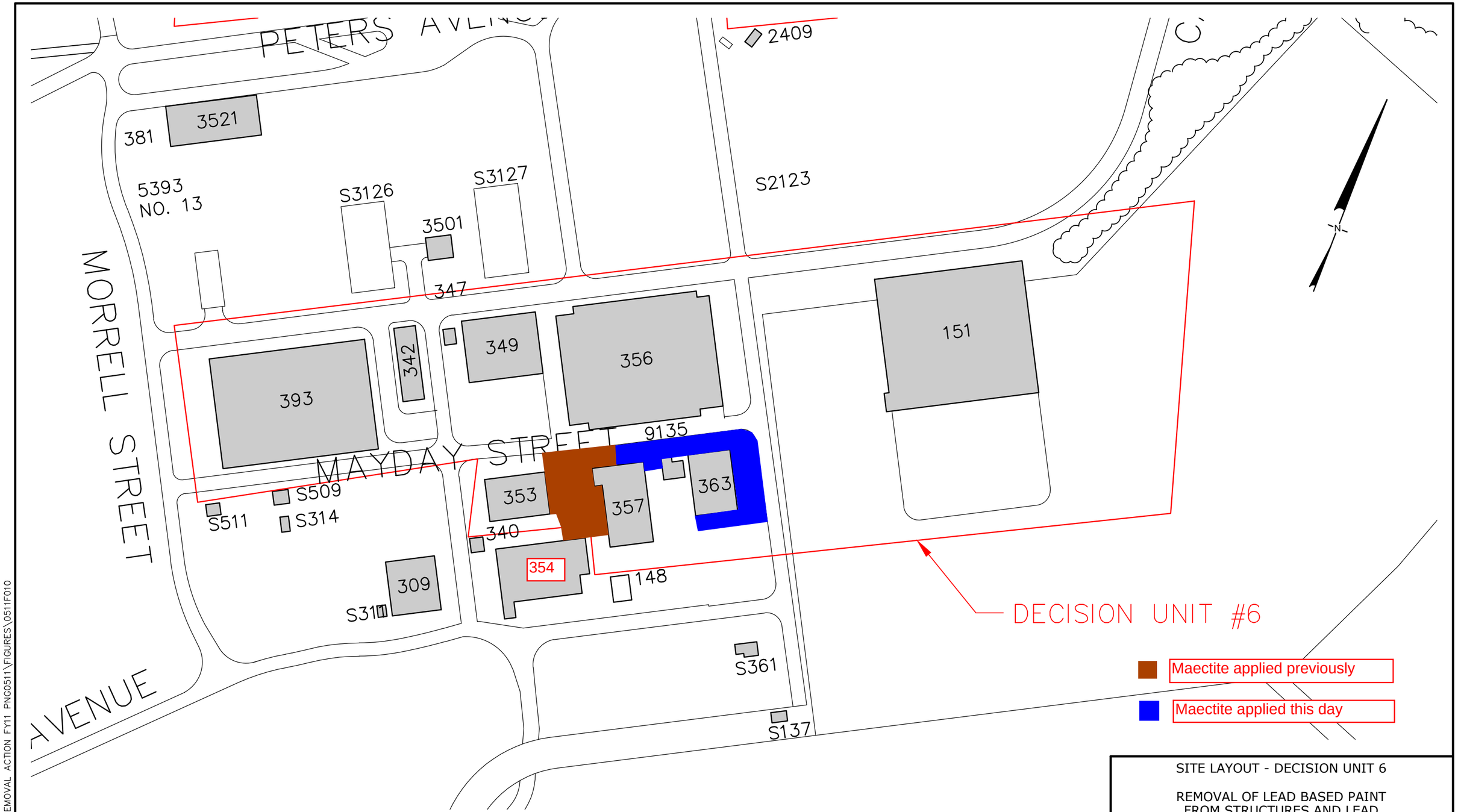

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, July 9, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly, cloudy, breezy, temps ~70- 80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Everett White	NWDE Super	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Bill Schilling	Sevenson Environmental	10

Visitors:

Name	Company
None.	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE

2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	31 gallons	

Description of Work:

0700 - NWDE conducts safety briefing.

NWDE continues loading the demolition debris from the pipe rack from the day before. Metal debris was placed on the concrete pad in a separate, new pile (near the existing scrap metal pile) east of the Sea Plane Hanger. Painted wood debris was treated with Maectite and will be moved during the excavation process.

NWDE continues laying out the excavation (survey) grid in between Bldgs 363 and 357.

0915 – NWDE demolishes a materials rack / shed alongside (north of Bldg 354). DBSI provides 2 or 3 persons to assist with sorting and loading debris into piles. DBSI hauled off all demolition debris.

NWDE continues with Maectite application in between Bldgs 363 and 357. NWDE is using a 50% dilution of the Maectite and applying approximately 1.1 gallons per CY of soil.

NWDE continues to remove shadecloth and lay out the excavation (survey) grid south and west of Bldg 357.

1200 – Lunch.

1230 – NWDE continues with Maectite application. Per Sevenson recommendation, full strength Maectite is now being used as opposed to diluting with water by 50 %. Maectite is still being applied at approximately 1.1 gallons per CY. Water is being applied during the soil raking / mixing process to ensure coverage of the Maectite active ingredient evenly throughout the 1 foot lift of treated soil. Sevenson recommends applying full strength Maectite followed by raking / mixing the soil while continuously wetting the soil with water as the standard protocol for the duration of the project.

NWDE starts removing the shade cloth south of Bldg 353.

1730 – End of day.

Note Brent Miller, Geosyntec, Bill King, NWDE, and Gail Wayper, NWDE, Darin Liebelt and second NWDE crew and Iniki crew arrived on-island at approximately 2130 hrs.

Cummulative totals

Approximately1750 gallons of Maectite applied to date.

Covering approximately 43,750 square feet of 1 foot lift (excavation depth in DU6 is 1 foot).

Photographs:

Photo 01 – Removing pipe rack demolition debris.

Photo 02 – Preparing to apply Maectite.

Photo 03: Applying Maectite in between Bldg 343 and 357.

Site Map

The attached Site Map shows the limits of Maectite application for the day.

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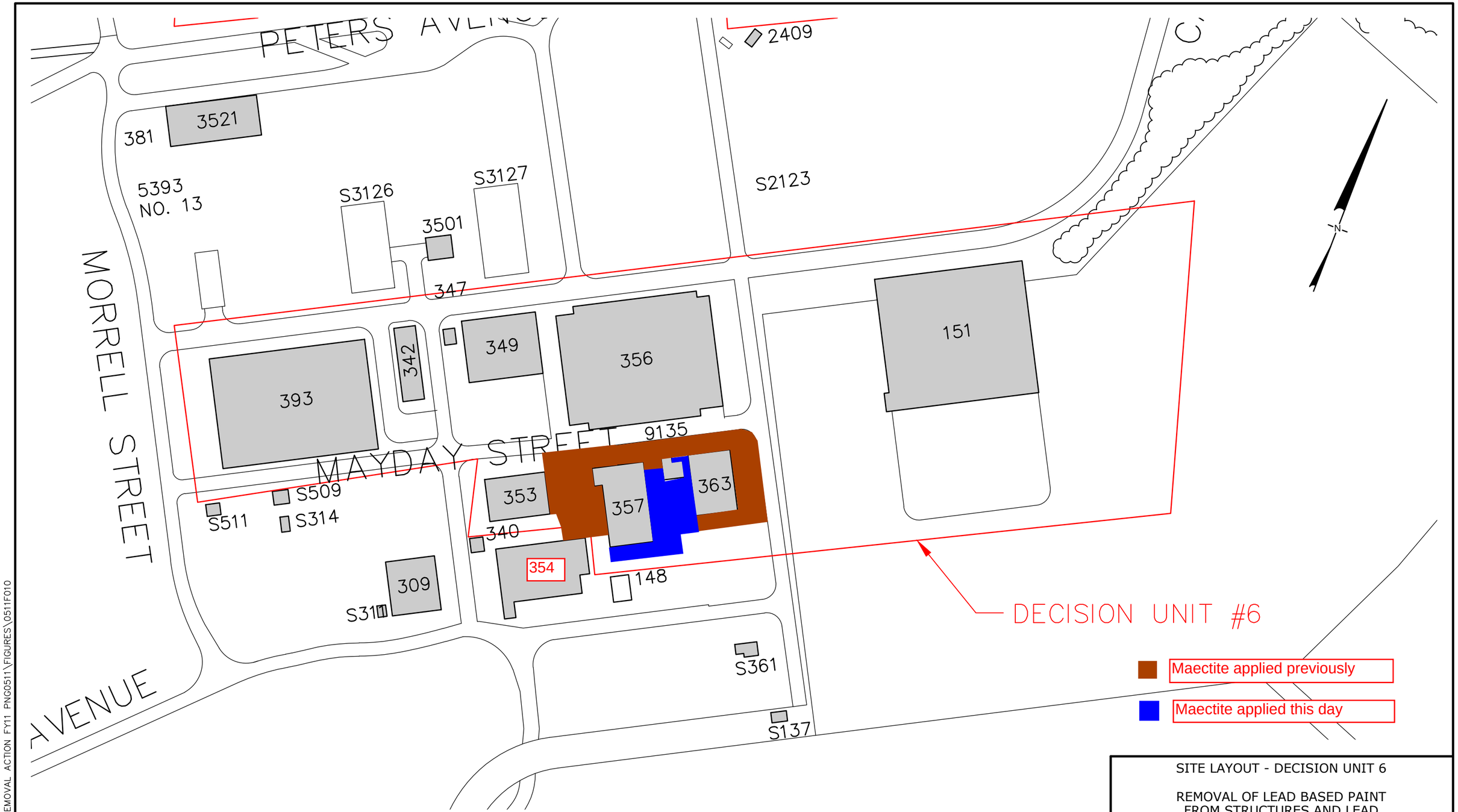

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, July 10, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Mostly sunny, 1 light rain shower in morning, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Richard Wayper	NWDE Program Manager	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Bill Schilling	Sevenson Environmental	10
Gary Lewis	Iniki PM	10
Brent Miller	Geosyntec PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
Bill King	NWDE
Gail Wayper	NWDE

Equipment:

Description	Model No.	Comments

Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None.		

Description of Work:

0700 - NWDE conducts safety briefing.

NWDE continues with Maectite application south and west of Bldg 357. Maectite is applied as full strength at a rate of approximately 1.1 gallons per CY of soil. Water is applied during the raking / mixing process following Maectite application. Sevenson representative is in an observational role only. NWDE is leading the Maectite application processes.

0800 – New project crew members (NWDE, Geosyntec, Iniki) and visitors attend US FWS orientation.

0830 – NWDE starts applying Maectite south of Bldg 353. Same application process followed by raking / mixing with water.

0930 – Orientation is complete for new crew members and visitors. NWDE and Geosyntec PM inspect the R-2 unit related to containment cell design considerations. NWDE and Geosyntec PM inspect the R-3 site as a potential secondary containment facility (if needed).

NWDE is removing shadecloth from the west and north sides of Bldg 353 in preparation for Maectite application.

Iniki begins moving materials and equipment to Bldg 356 for abatement / painting tasks.

Iniki begins preparing the south side of Bldg for abatement as well as the second story portion of the building via the roof.

1130 – NWDE is applying Maectite along the west side of Bldg 353.

1200 – Lunch.

1230 – Sevenson representative briefs full NWDE project crew on the health and safety aspects of working around and applying Maectite. Sevenson representative continues in an observational role while NWDE leads and performs the application, raking / mixing processes. Full strength Maectite is being

applied with the same application process since yesterday afternoon. NWDE is applying Maectite along the north side of Bldg 353.

NWDE is removing shadecloth from the south and west sides of Bldg 349 in preparation for Maectite application.

Iniki applies Maectite to portions of the south side of the Bldg to start abatement activities.

1600 – NWDE is complete with the Maectite application north of Bldg 353 and moves to the south side of Bldg 349 to start applying Maectite.

1730 – End of day.

Note Brent Miller, Geosyntec, Bill Schilling, Sevenson, Richard Wayper NWDE and 2 visitors fly off island at ~ 2030 hours.

Cummulative totals

Approximately 2250 gallons of Maectite applied to date.
Covering approximately 56,250 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Photographs:

Photo 01 – Removing shade cloth along the north side of Bldg 353.

Photo 02 – Maectite application followed by raking / mixing of soil south of Bldg 353.

Photo 03: Excavation (survey) grid laid out north of Bldg 353.

Photo 04: Iniki preparing for Abatement tasks at Bldg 356.

Site Map

The attached Site Map shows the limits of Maectite application for the day.

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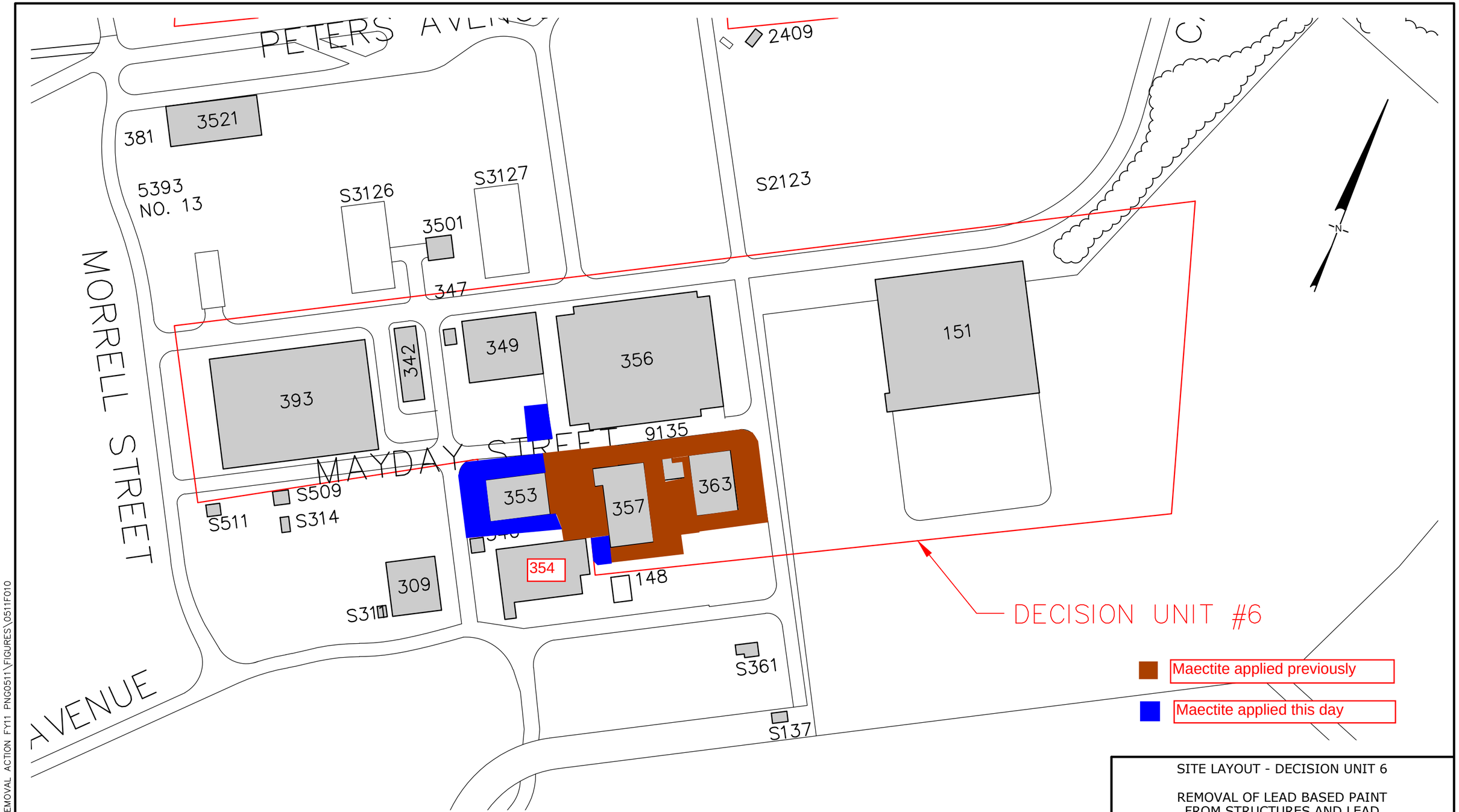

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
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Daily Field Report

Date: Wednesday, July 11, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Mostly cloudy, few light rain showers, light winds, temps ~70s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel.	100 gallons	

Description of Work:

0700 - NWDE conducts safety briefing. Michael reviews project Health and Safety Plan with new project NWDE crew members.

NWDE is continuing removing shadecloth and establishing the excavation (survey grid) in advance of Maectite application south of Bldg 349. Maectite is continuing to be applied at full strength at a rate of approximately 1.1 gallons per CY of soil. Raking to mixing the Maectite with continuous wetting with water follows Maectite application.

NWDE demolishes the concrete structure in the extreme south west corner of the R-2 unit. NWDE adds compression caps to the sealed (with hydraulic cement) pre-existing drain pipes.

0920 – Iniki continues the abatement process of the second story (inset) surfaces via roof access. Iniki continues the abatement process at the overhangs along the south wall of Bldg 356.

1200 – Lunch.

1245 – NWDE is continuing Maectite application followed by mixing south of Bldg 349.

1300 – Iniki starts the abatement process (fascia board only) along the east side of Bldg 356. Abatement / Painting of the east side will allow NWDE to complete soil treatment activities in between Bldgs 349 and 356 upon completion.

Iniki continues with abatement process on second story (inset) surfaces via roof access.

1400 – NWDE is filling sandbags for later use.

NWDE is beginning soil excavation to 1 foot below grade in between Bldgs. 353 and 357. Soil is being temporarily stockpiled alongside the road for easy access to haul trucks. No hauling due to number of birds.

1730 – End of day.

Cumulative totals

Approximately 2500 gallons of Maectite applied to date.
Covering approximately 62,500 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Photographs:

Photo 01 – Iniki abating the second story (inset) surfaces via roof access Bldg 356.

Photo 02: - Iniki abating south side of Bldg 356.

Photo 03: NWDE applying Maectite south of Bldg 349.

Photo 04: NWDE performing soil excavation in between Bldgs 353 and 357.

Site Map

The attached Site Map shows the limits of Maectite application for the day.

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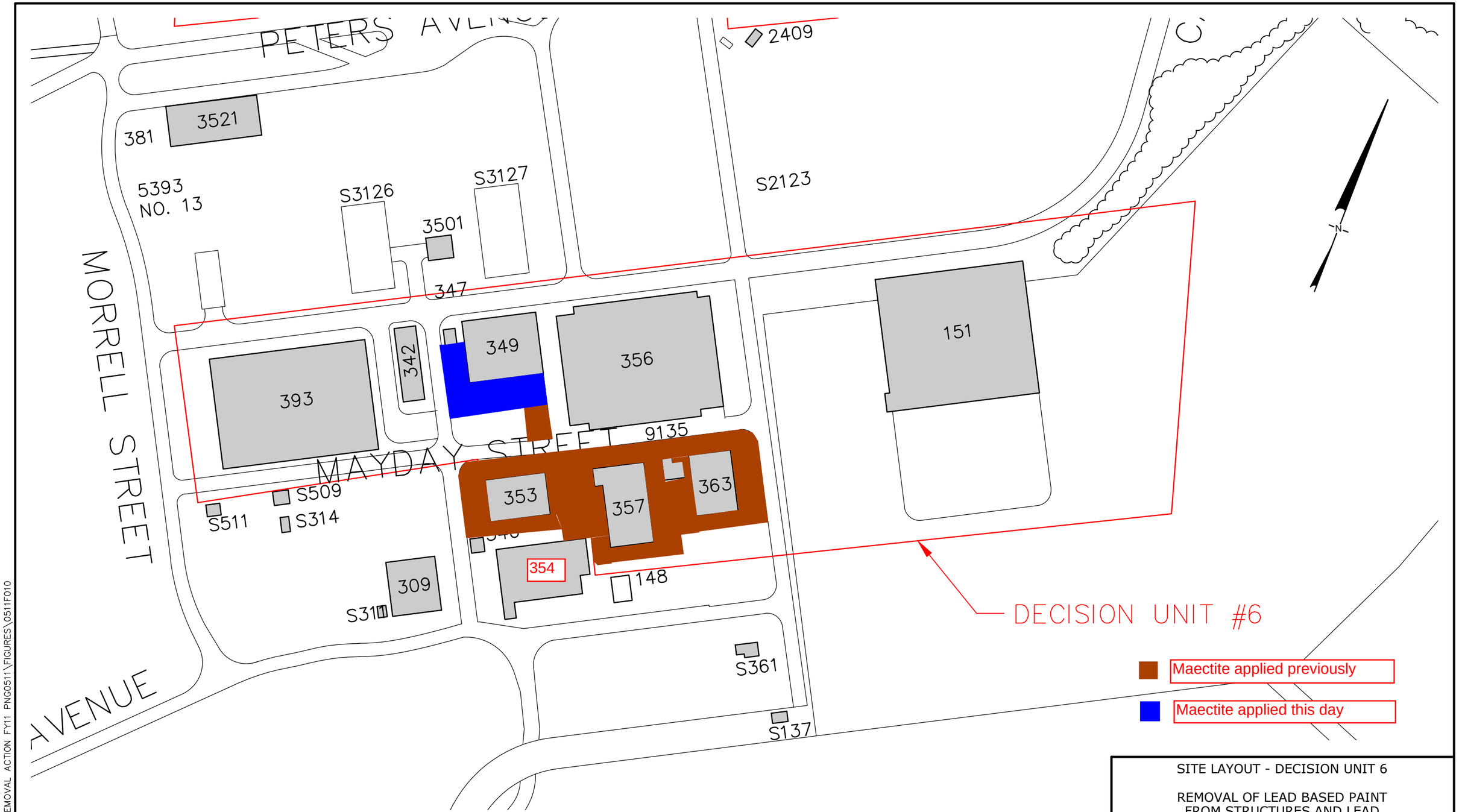

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Thursday, July 12, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Mostly sunny, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel.	90 gallons	

Description of Work:

0700 - NWDE conducts safety briefing.

NWDE continues with soil excavation between Bldgs 353 and 357. Soil is being temporarily stockpiled alongside the road.

NWDE continues to fill sandbags for later use.

0800 – Iniki is painting the final coat on the west side (fascia only) of Bldg 356. Iniki continues to abate (scrape) to overhangs along the south of Bldg 356. Iniki continues painting the second story (inset) surfaces via roof access.

1050 – Iniki is painting a second (final) top coat on the west side (fascia only) of Bldg 356.

1100 – NWDE tries a test haul in a convoy of both loaded trucks with a lead vehicle to move birds out of the haul road. The soil was from the stockpile created from the excavation between Bldgs 353 and 357. The haul route was agreed to with FWS and DBSI elements prior. The haul route is from DU6 south between Bldgs 309 and 354 to the closed taxiway just east of Bldg 5309 to the edge of the active runway then west to the active taxiway then north to the existing ramps at the R-2 Unit. The return route is the reverse.

1200 – Lunch.

1230 – Iniki is complete on west side of Bldg 356 (fascia only). Continues on other areas. Iniki is starting the abatement process on the east side (fascia only) of Bldg 356.

NWDE continues to load out trucks and haul from in between Bldgs 353 and 357. NWDE is excavation (1 foot below grade) north of Bldg 353.

Michael takes pictures of existing conditions of haul route (after 4 of 6 loads have been hauled).

1300 – DBSI personnel show Michael location of an active Fiber Optic line just west along the length of Bldg 356.

1615 – Iniki continues with painting the second story (inset) surfaces via roof access, scraping the overhangs along the south side of Bldg 356 and is priming the east side (fascia only).

NWDE is excavating south of Bldg 353 and continuing with filling sandbags and loading out trucks for haul.

1730 – End of day. No Maectite applied today. 20 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 2500 gallons of Maectite applied to date.
Covering approximately 62,500 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Approximately 300 CY of soil hauled to R-2 unit. Estimate is based on an estimated 1 CY excavator bucket and 15 excavator buckets full per truck load.

Photographs:

Photo 01 – Iniki starting the top coat (fascia only) on the west side of Bldg 356.

Photo 02: - NWDE continuing soil excavation in between Bldgs 353 and 357.

Photo 03: NWDE loading out trucks.

Photo 04: NWDE performing soil excavation north of Bldg 353.

Photo 05: NWDE convoy of loaded trucks to R-2 Unit.

Photo 06: NWDE entering R-2 unit with loaded trucks.

Photo 07: NWDE dumping treated soil in R-2 Unit.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

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PETERS AVENUE

2409

3521

381

5393
NO. 13

S3126

S3127

3501

S2123

347

MORRELL STREET

342

349

356

151

393

9135

MAYDAY STREET

S509

S511

S314

353

357

363

354

148

309

S311

S361

S137

AVENUE

DECISION UNIT #6

Soil Excavation to 1' BGS

Maectite applied previously

Maectite applied this day

Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:

8

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Daily Field Report

Date: Friday, July 13, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel.	103 gallons	

Description of Work:

0700 - NWDE conducts safety briefing.

NWDE begins removing shadecloth and establishing the excavation (survey) grid in between Bldgs 349 and 356. NWDE continues excavating south of Bldg 353 and loading out trucks for haul.

Iniki is rinsing the south side overhang and finishing cutting in the windows on the second story inset via roof access. Iniki is priming the east side (fascia only).

0915 – Darin, Michael, Gary, Jeremy, Mary Ann and John K, US FWS, and 2 DBSI personnel meet at Bldg 643 (DU1) to coordinate efforts for the abatement / painting.

1200 – Lunch.

1245 – NWDE completes Maectite application between Bldgs 349 and 356. Maectite is applied at full strength at a rate of approximately 1.1 gallons per CY of soil. Raking to mix the Maectite with continuous wetting with water follows Maectite application.

NWDE continues with soil excavation associated with Bldgs 353 and 357. NWDE continues hauling treated soil to the R-2 unit.

Iniki continues painting on the second story inset via roof access and painting the final top coat (fascia only) on the east side of Bldg 356.

1445 – Iniki begins masking off siding on the south side of Bldg 356 to protect it from overspray. Iniki completes the fascia on the east side of Bldg 356.

NWDE continues with the soil excavation south of Bldg 353.

NWDE stops hauling treated soil and moves an excavator to the R-2 Unit to smooth out the piles into a 1 foot drainage layer over a portion of north east cell.

NWDE starts removing the shadecloth east of Bldg 356 in preparation for Maectite application.

1730 – End of day. Approximately 250 gallons of Maectite applied today. 16 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 2750 gallons of Maectite applied to date.
Covering approximately 68,750 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Approximately 540 CY of soil hauled to R-2 unit. Estimate is based on an estimated 1 CY excavator bucket and 15 excavator buckets full per truck load.

Photographs:

Photo 01 – NWDE removing shadecloth in between Bldgs 349 and 356 in advance of Maectite application.

Photo 02: - Iniki priming fascia only along east side of Bldg 356.

Photo 03: Soil excavation looking at east facing wall of Bldg 353.

Photo 04: Soil excavation along south side of Bldg 353 (white bdlg on right).

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

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PETERS AVENUE

MORRELL STREET

MAYDAY STREET

AVENUE

2409

3521

381

5393
NO. 13

S3126

S3127

3501

347

S2123

349

356

342

393

151

9135

353

357

363

S509

S511

S314

354

148

309

S311

S361

S137

DECISION UNIT #6

Soil Excavation to 1' BGS

Maectite applied previously

Maectite applied this day

Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:

8

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Daily Field Report

Date: Saturday, July 14, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None		

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

0700 - NWDE conducts safety briefing.

NWDE continues preparing the east side of Bldg 356 for treatment with Maectite. NWDE removes the cover from the deposited soil in the R-2 unit.

0945 – NWDE is applying Maectite east of Bldg 356. Maectite is applied at full strength at a rate of approximately 1.1 gallons per CY soil. Raking to mix the Maectite with continuous wetting with water follows Maectite application.

NWDE continues hauling treated soil to the R-2 unit from the excavation associated with Bldgs 353 and 357.

Iniki is masking off to prepare for priming the overhangs along the south side of Bldg 356 and continues painting and priming activities around the windows of the second story (inset) surfaces via roof access.

1200 – Lunch

1245 – NWDE resumes Maectite application east of Bldg 356 and soil excavation north and east of Bldg 353. NWDE continues hauling treated soil.

1500 – Iniki is preparing for abatement activities on the north side of Bldg 356 and priming the south side overhangs.

NWDE is complete with Maectite application for the day. NWDE continues with soil excavation north of Bldg 357.

1700 – NWDE covers the deposited soil in the R-2 for the day.

1730 – End of day. Approximately 500 gallons of Maectite applied today. 22 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 3250 gallons of Maectite applied to date.
Covering approximately 81,250 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Approximately 870 CY of soil hauled to R-2 unit. Estimate is based on an estimated 1 CY excavator bucket and 15 excavator buckets full per truck load.

Photographs:

Photo 01 – NWDE excavating west of Bldg 353.

Photo 02: - Priming second story (inset) surfaces Bldg 356.

Photo 03: Iniki priming the overhangs along the south side of Bldg 356.

Photo 04: NWDE is completing the excavation along the west side of Bldg 353.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

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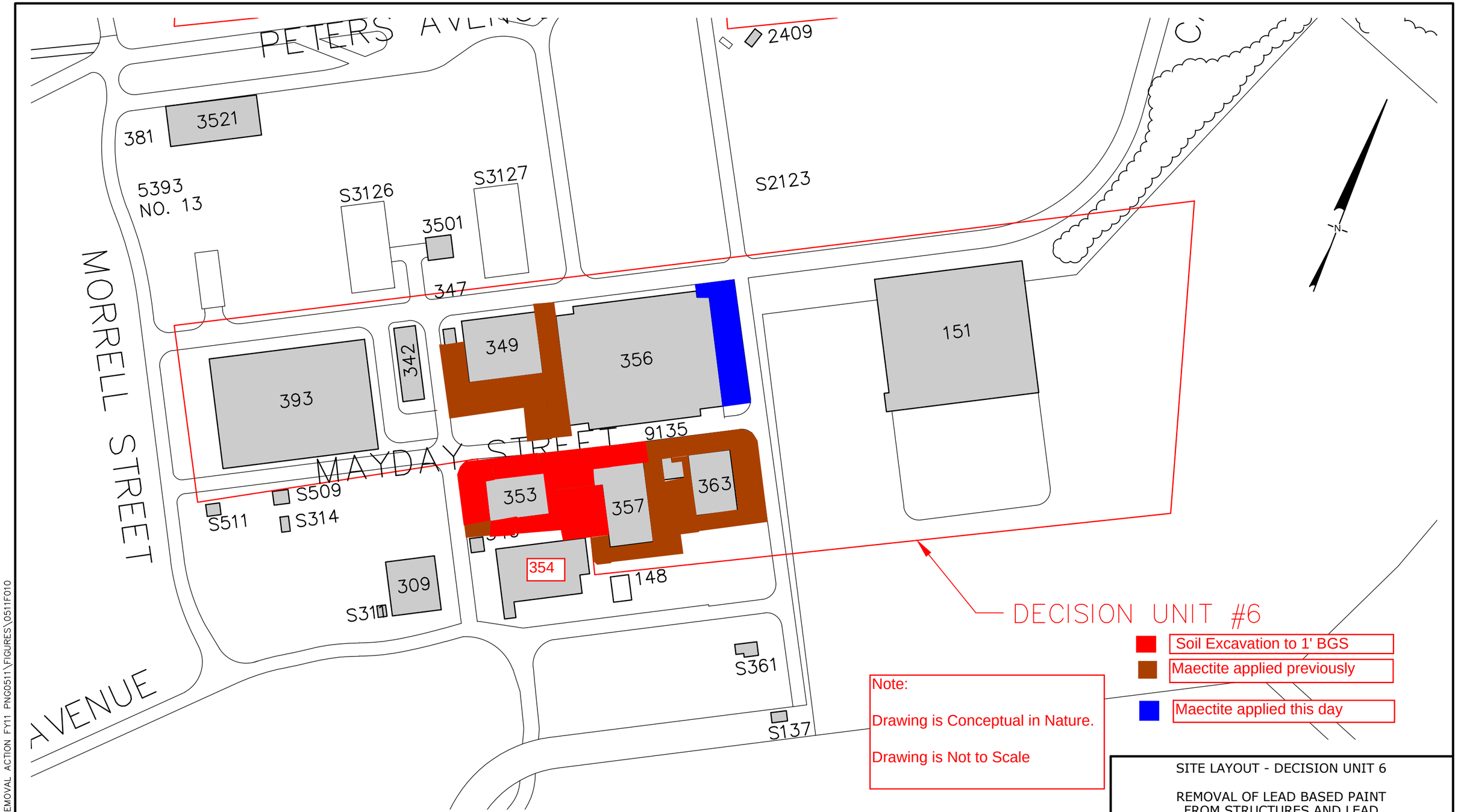

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Monday, July 16, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		3.3 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	73 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

0700 - NWDE conducts safety briefing.

NWDE removes cover from R-2 unit. NWDE resumes soil excavation north of Bldg 357.

0750 – Iniki is applying the top coat of paint to the overhangs on the south side of Bldg 356. Iniki is preparing for abatement tasks on the north side.

0815 – NWDE resumes loading out trucks for hauling along the west side of Bldg 353.

0930 – Iniki starts abatement on the north side of Bldg 356.

1000 – NWDE and Iniki attend weekly project conference call with US FWS PM.

1200 – Lunch.

1245 – Michael prepares to collect MIS/ICS sample surrounding Bldg 353. NWDE is completing loading out trucks from the area. NWDE is continuing soil excavation north and east of Bldg 363.

Iniki continues painting the south side of Bldg 356 and abating the north side.

1415 – NWDE breaks a water line near the north west corner of Bldg 353. NWDE contacts DBSI who responds and repairs the previously capped line.

1730 – End of day. No Maectite was applied today. 20 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 3250 gallons of Maectite applied to date.

Covering approximately 81,250 square feet of 1 foot lift (excavation depth in DU6 is 1 foot). Estimate is based on the number of gallons of Maectite applied.

Approximately 1716 CY of soil hauled to R-2 unit. Estimate is based on a revised estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – Iniki painting on south side of Bldg 356.

Photo 02: - Iniki continuing painting on south side Bldg 356.

Photo 03: NWDE continuing soil excavation north of Bldg 357.

Photo 04: NWDE is continuing soil excavation east of Bldg 363.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

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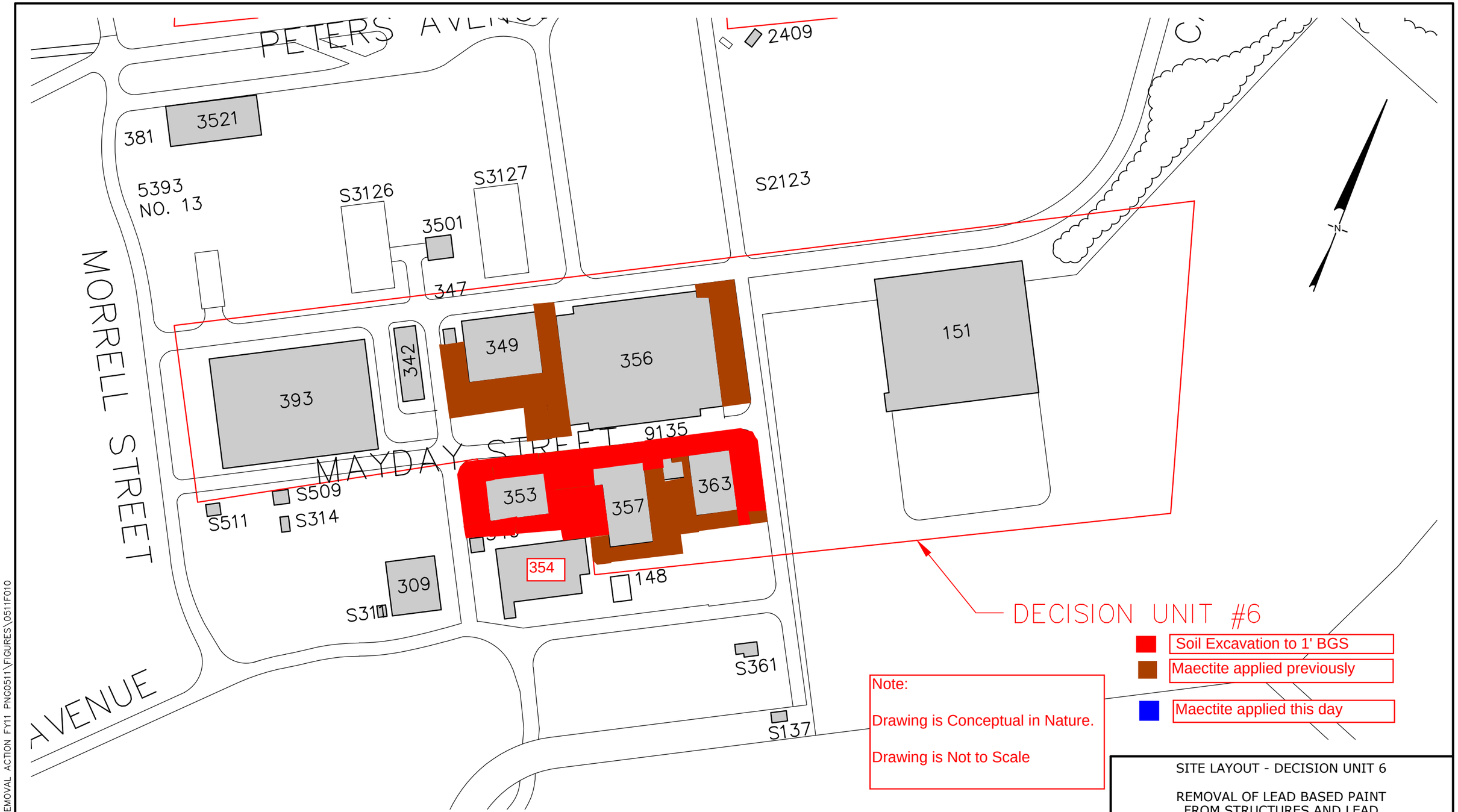

NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Tuesday, July 17, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, light winds, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		1.5 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	271 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

Iniki resumes painting on the south side of Bldg 356, abatement on the north side and masking off the second story (inset) windows preparing for more painting.

0700 - NWDE conducts safety briefing.

NWDE resumes excavation east and south of Bldg 363. NWDE resumes loading out trucks south of Bldg 363.

Michael resumes MIS sample collection associated with Bldg 353.

1100 – NWDE is excavating in between Bldgs 363 and 357 and continues loading out trucks.

Iniki is complete on the south side of Bldg 356 and moving equipment and supplies to the north side to continue abatement and prepare for priming. Iniki is continuing with abatement on the north side of Bldg 356.

1200 – Lunch.

1245 – NWDE resumes soil excavation in between Bldgs 363 and 357.

NWDE prepares to test the water hydrant for discharge rate and is getting set up to start the second application of Maectite south of Bldg 353.

1350 – NWDE performs 3 repetitions to test the hydrant discharge rate. Using an empty tote, the time was recorded to discharge 150 gallons into the tote at 3 different settings with the hose nozzle.

Results – Avg hydrant discharge = 43 GPM.

1430 – NWDE prepares for Maectite second application (applied to below 1 ft bgs, i.e. base or bottom of excavation). Geosyntec / Sevenson recommend a revised application rate to match the originally

planned application rate based on site specific bulk density. Moving forward, the application rate will be 0.75 gallons of Maectite per CY soil at full strength. Raking to mix the Maectite with wetting with water will follow Maectite application as before.

1530 – NWDE begins the second application of Maectite to the base of the excavation south of Bldg 353.

Iniki primes the concrete block wall surfaces on the second story via roof access. Iniki starts preparing for abatement at Bldg 643 (DU1).

1730 – End of day. Maectite application for the day was not recorded. 20 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 2156 CY of soil hauled to R-2 unit. Estimate is based on an estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – Iniki is complete on the overhangs and south side surfaces of Bldg 356.

Photo 02: - Iniki continues abatement on north side Bldg 356.

Photo 03: NWDE continuing loading out trucks east of Bldg 363.

Photo 04: NWDE is continuing soil excavation south of Bldg 363.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

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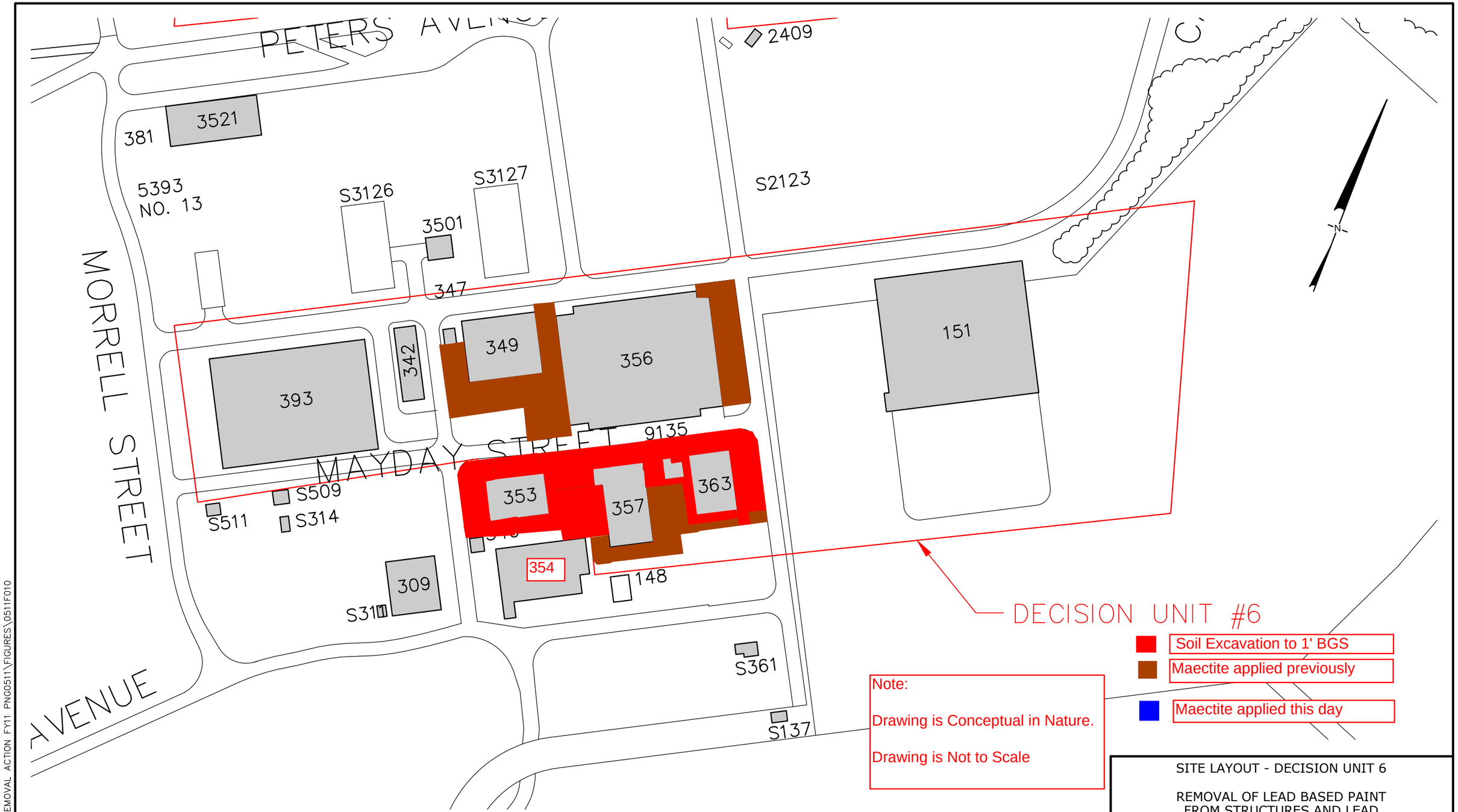

NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Wednesday, July 18, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Sunny, breezy, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
None.		

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

0645 – Iniki and NWDE hold group meeting to discuss logistics and schedule as a project group.

0700 - NWDE conducts safety briefing.

NWDE begins removing shadecloth from around Bldg 643 (DU1) in advance of abatement activities.

Iniki resumes painting at Bldg 356 and abatement at Bldg 643.

0945 – NWDE resumes the 2nd application of Maectite east of Bldg 353. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows Maectite application.

NWDE continues excavation south of Bldg 357 and continues loading out trucks from in between Bldgs 357 and 363.

Iniki is laying down plastic in preparation for abatement at Bldg 643. DBSI has smoothed the uneven sand surrounding Bldg 643 to allow safe access for Iniki manlift. DBSI is shoring up the veranda / lania in a few locations to allow for safe access.

1030 – Michael collects an MIS sample west of Bldg 357.

1115 – Micahel monitors typical water usage during Maectite application.

1200 – Lunch.

1245 – NWDE resume 2nd application of Maectite north of Bldg 353. Michael continues to monitor water usage during Maectite application.

Iniki resumes preparations for abatement at Bldg 643 and painting at Bldg 356.

1600 – Iniki is applying Maectite to all exterior painted surfaces on Bldg 643. Iniki continues painting on Bldg 356.

1640 – NWDE continues 2nd application of Maectite in between Bldgs 353 and 357. NWDE continues with soil excavation south of Bldg 357 and loading out trucks from in between Bldgs 357 and 363.

1700 – NWDE pulls cover over soil deposited in the R-2 unit.

1730 – End of day. Approximately 250 gallons of Maectite was applied from yesterday (7/17) thru EOB today. 24 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 3500 gallons of Maectite has been applied to date. Covering approximately 81,250 square feet of 1 foot lift (excavation depth in DU6 is 1 foot) for the 1st application. Covering approximately 8,980 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Approximately 2684 CY of soil hauled to R-2 unit. Estimate is based on an estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – NWDE continues loading out trucks south of Bldg 363.

Photo 02: - Iniki is preparing for abatment activities at Bldg 643 (DU1).

Photo 03: Iniki is preparing for abatement activities at Bldg 643.

Photo 04: Iniki is preparing for abatement activities at Bldg 643.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

Note changes in color coded legend on the attached map.

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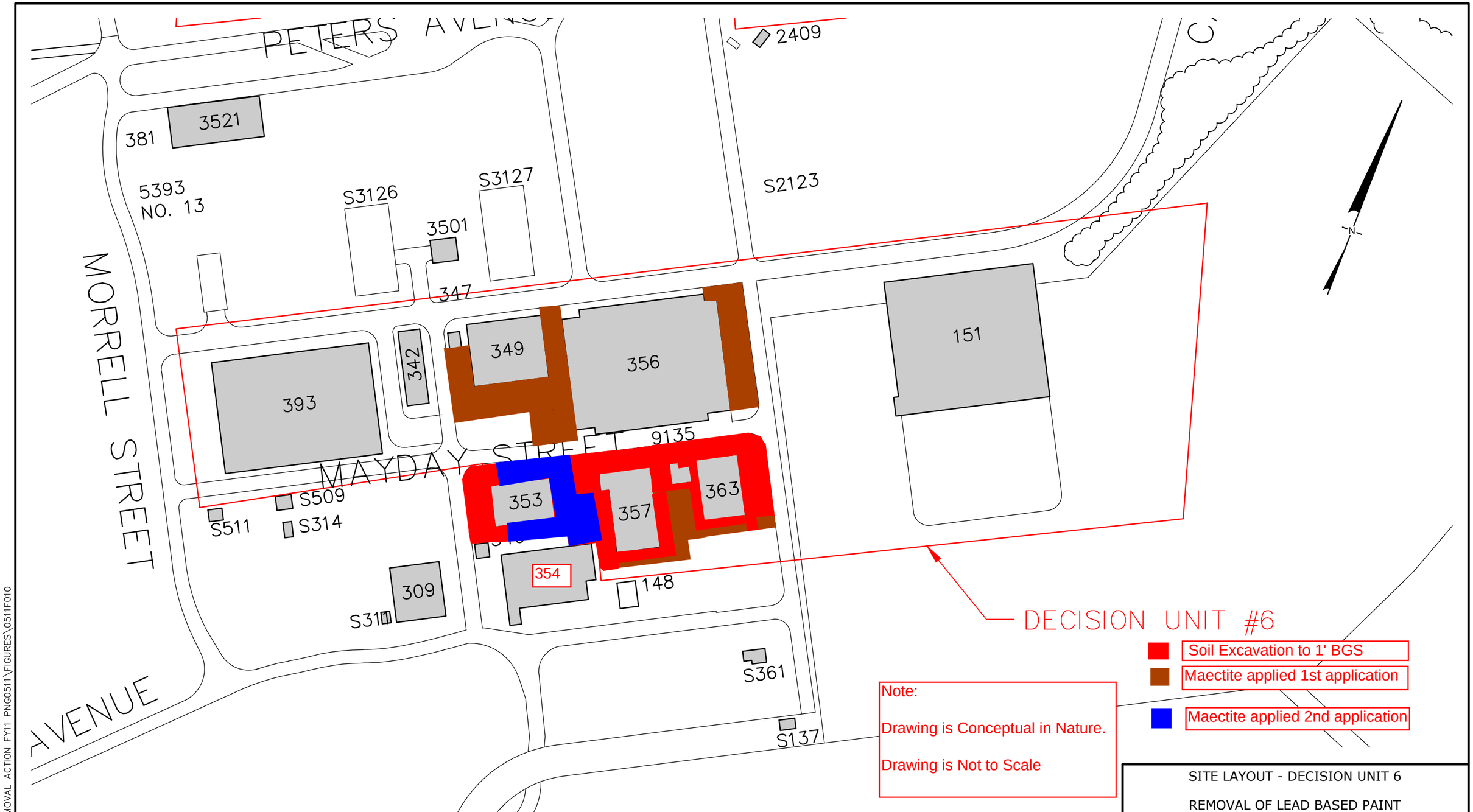

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Thursday, July 19, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, 2 lite rain showers, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE

Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		4 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	115 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

Iniki resumes abatement activities at Bldg 643 and painting at Bldg 356.

0700 - NWDE conducts safety briefing.

NWDE removes cover at R-2 unit and uses dozer to smooth out piles previously hauled.

NWDE resumes loading out trucks south of Bldg 363.

NWDE resumes 2nd application of Maectite in between Bldg 353 and 357. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows Maectite application.

0915 – Iniki is abating the north side of Bldg 643.

Iniki is painting the top coat on the second story (inset) surfaces of Bldg 356. Iniki is masking off areas on the north side of Bldg 356 for detail painting.

0945 – M. Schott is collecting a MIS sample north of Bldg 357 (North and West side sampling is complete).

1200 - Lunch

1245 – Iniki resumes painting the second story (inset) surfaces of Bldg 356 and begins detail painting on the north side.

NWDE resumes loading out trucks south of Bldg 363.

NWDE applies a 1st application of Maectite at the south east corner of Bldg 356.

1530 – NWDE PM and US FWS PM inspect buildings in DU1 for the presence of any regulated waste materials. None was found.

Iniki is rinsing the walls and veranda of Bldg 643 in preparation for painting. Iniki continues the abatement process on lower surface / walls.

1600 – NWDE has completed the 2nd application of Maectite in between Bldg 353 and 357 and is applying Maectite north of Bldg 357.

NWDE begins excavating in between Bldgs 349 and 356

1730 – End of day.

End of day totals

Approximately 250 gallons of Maectite applied today.
19 loads of treated soil were hauled to the R-2 unit.

Cumulative totals

Approximately 3750 gallons of Maectite has been applied to date. Covering approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 16,960 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Approximately 3102 CY of soil hauled to R-2 unit. Estimate is based on an estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – NWDE continues Maectite 2nd application in between Bldgs 353 and 357.

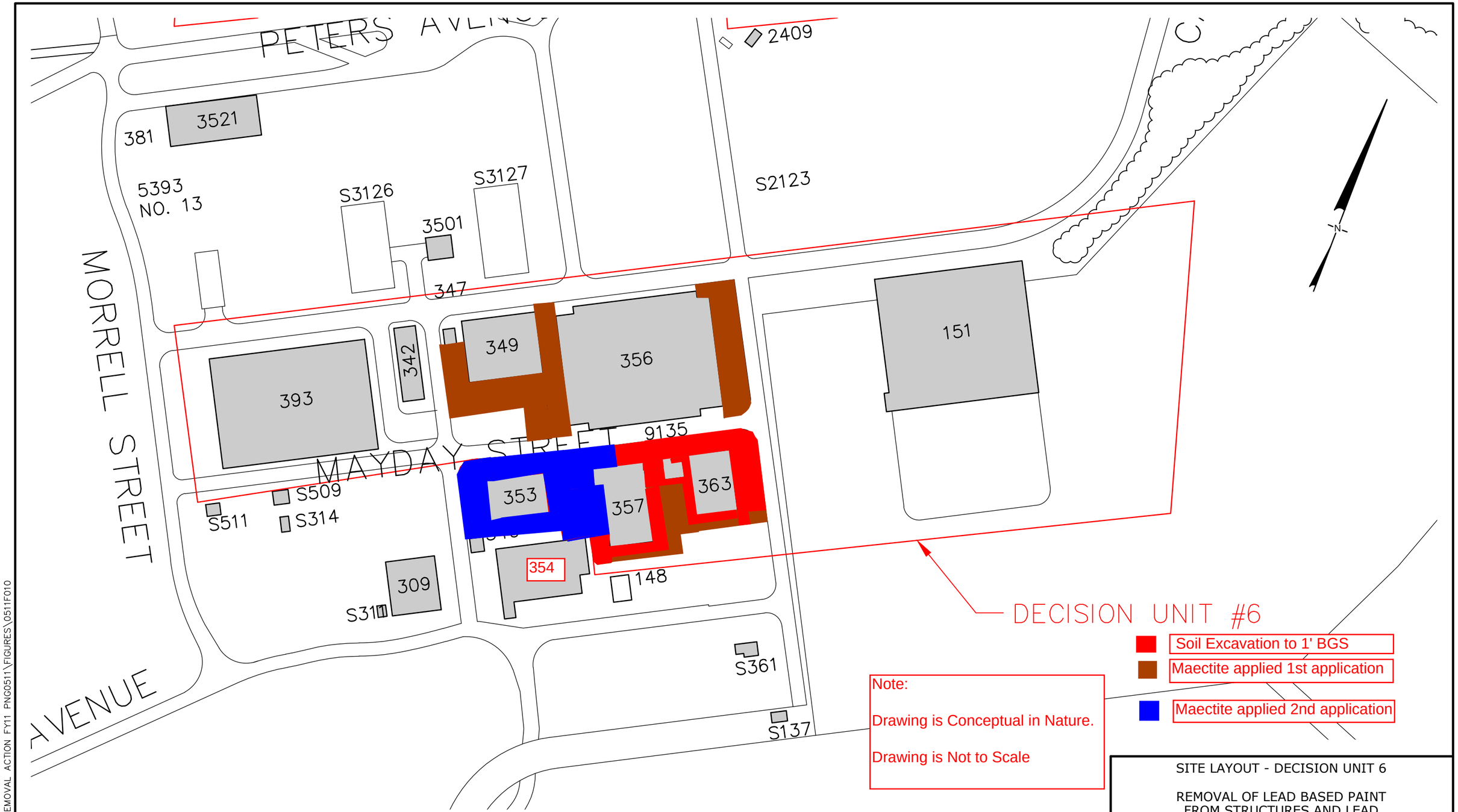
Photo 02: - NWDE continues loading out trucks south of Bldg 363.

Photo 03: Iniki is masking off areas in preparation for details painting on the north side of Bldg 356.

Photo 04: Iniki continues abatement activities at Bldg 643.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.



NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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Daily Field Report

Date: Friday, July 20, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, rain shower in morning, temps ~80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Christa Tyrrell	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Mohammed Rouf	Globetech IH	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE

Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		2.2 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Gasoline	9 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

Iniki resumes abatement activities at Bldg 643 and cleaning up at Bldg 356.

0700 - NWDE conducts safety briefing.

NWDE removes shadecloth surrounding Bldg 626 (DU1) in preparation for beginning the demolition.

0740 – Iniki has completed the abatement of Bldg 643 (DU1) and is rinsing the building in advance of priming / painting.

Iniki continues to move equipment and supplies to Bldg 643 from Bldg 356.

0800 – NWDE is preparing equipment for demolition activities.

NWDE is continuing soil excavation to 1 foot below grade south and east of Bldg 349. .

Globetech IH is setting up air monitoring equipment to monitor for lead at the soil excavation associated with Bldg 349. An "upwind", "downwind" and 1 personnel sample is being established.

NWDE is continuing loading out trucks from in between Bldg 363 and 357

C. Tyrrell is attending US FWS orientation.

1000 – NWDE begins demolishing Bldg 626. The building painted surfaces were treated with a solution of Maectite (4 parts water to 1 part Maectite) via a power washer prior to demolition. Interior building surfaces were accessed through the windows.

Water is being used for dust suppression during demolition and loading out trucks.

Air monitoring for asbestos is being performed during demolition activities. An “upwind”, “downwind” and 1 personnel sample is established.

1055 – NWDE is continuing with soil excavation south and west of Bldg 349.

1130 – NWDE is complete with loading out trucks from in between Bldg 363 and 357. Move excavator to south of Bldg 349 and begin loading out trucks from there.

Problem noted with tracked Skid Steer (Bobcat T750), NWDE is troubleshooting.

1200 – Lunch.

1245 – Iniki is cleaning up after abatement at Bldg 643 and masking off areas to be left unpainted in anticipation of painting.

NWDE is loading out demolition debris from Bldg 626.

NWDE resumed soil excavation south of Bldg. 349 and loading out trucks.

1430 – NWDE is smoothing out soil and debris piles at the R-2 unit.

1630 – NWDE and US FWS discuss documentation of potentially historically significant artifacts encountered during demolition activities of Bldg 626. M. Schott and C. Tyrrell document findings labeled A626-1. Notes related to finding A626-1 are recorded elsewhere.

Iniki is priming Bldg 643.

1730 – End of day. Air monitoring samples are collected by Globetech IH at end of day.

<u>End of day totals</u>

Approximately 7 gallons of Maectite used today during demolition activities.
1 load of clean (unpainted) concrete demolition debris was hauled to the existing concrete rubble pile near the Sea Plane Hanger Bldg.
1 load of metal demolition debris was hauled to the separate, project specific metal stockpile near the Sea Plane Hangar.
5 loads of painted demolition debris were hauled to the R-2 unit.

17 loads of treated soil were hauled to the R-2 unit.

<u>Cumulative totals</u>

Approximately 3757 gallons of Maectite has been applied to date. Covering approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 16,960 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Approximately 3476 CY of soil hauled to R-2 unit. Estimate is based on an estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – Typical personnel air monitoring setup (for lead at soil excavation south of Bldg 349).

Photo 02: - NWDE initiating demolition of Bldg 626.

Photo 03: Iniki is cleaning up after abatement activities and prepares for priming / painting at Bldg 643.

Photo 04: NWDE continues demolition activities at Bldg 626.

Photo 05: NWDE is continuing is excavation in between Bldgs 349 and 356.

Photo 06: NWDE continues loading out trucks south of Bldg 349.

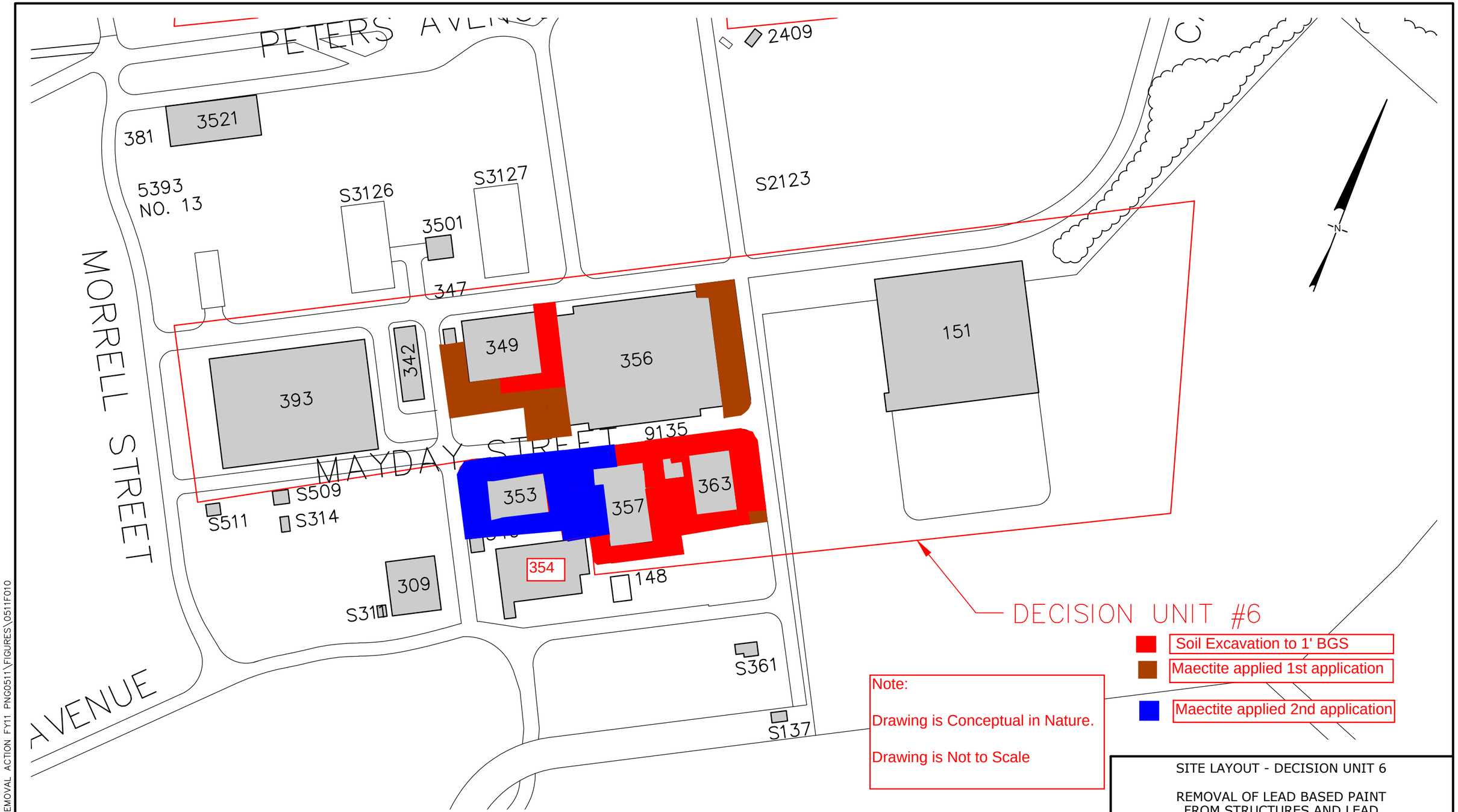
Photo 07: In place treated soil and demolition debris in R-2 Unit

Photo 08: Iniki initiates priming at Bldg 643.

Site Map

The attached Site Map shows the limits of Maectite application and the soil excavation.

The second map (attached) is of the buildings at DU1 for reference purposes.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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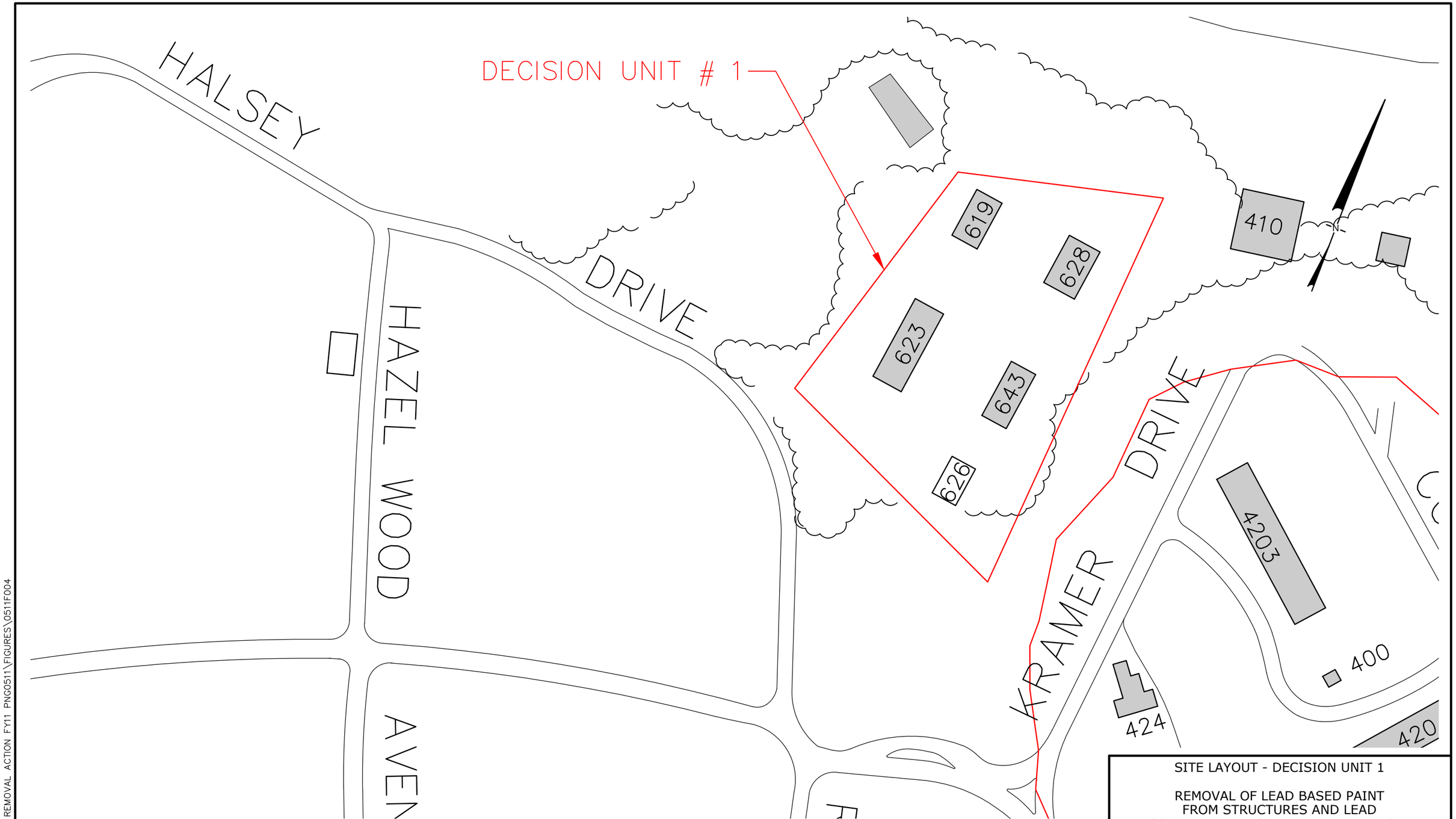

NOTES:

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, July 21, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, slight breeze, temps mid 80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Christa Tyrrell	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Gary Lewis	Iniki PM	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Mohammed Rouf	Globetech IH	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE

Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		1.2 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	207.4 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

Iniki resumes abatement and painting activities at Bldg 643.

0700 - NWDE conducts safety briefing. A Petrel has been observed on island – crews advised to do walk through to look for burrows prior to commencement of activities and be vigilant about covering work areas with shadecloth.

0730 - NWDE continues cleanup of demolition of Bldg 626 and preparation of Bldg 623 for demolition in DU 1.

Iniki continues painting Bldg 643.

NWDE uncovered soil in R-2 Unit.

NWDE resumes loading out trucks south of Bldg 349.

0830 – NWDE excavator begins removing steel and wood from Bldg 623 with dust suppression.

0907 – Iniki is painting the top coat on the south side of Bldg 643.

0930 – Geosyntec collects 2 aliquots for MEP sample from R-2 Unit.

0950 – NWDE continues load out trucks from south side of Bldg 349 with dust suppression.

NWDE mini excavator continues soil excavation down to 1 foot below grade on the west and south sides of Bldg 349.

NWDE continues to try to repair Tracked Skid Steer (Bobcat T750), which began leaking hydraulic fluid on 07/20/12 at approximately 10:00am; Skid Steer has been down since this time.

1000 - DBSI removes a tree stump on the SE corner of Bldg 363 (inside the soil excavation footprint) and one on the North side of Bldg 342 (inside the soil excavation footprint).

1015 – M. Schott and C. Tyrrell begin MIS sampling remaining portions of Bldg 357 (MIS sample complete for Bldg 357).

Air monitoring continues at Bldg 349 soil excavation area (for lead) and at Bldg 623 demolition area (for asbestos). Stationary sampling pumps are placed upwind and downwind at both locations, additionally one NWDE crew member at each location has been equipped with a portable personal sampling device inside the work area.

1200 – Lunch

1250 – Iniki is done priming Bldg 643, and beginning application of top coat.

NWDE approximately 50% complete with demolition of 643 with dust suppression.

M. Schott and C. Tyrrell begin MIS sampling of Bldg 363 (sampling of Bldg 363 is complete).

1550 – Iniki continuing top coat application on south and west side of Bldg 643.

NWDE continues demolition of Bldg 623 with dust suppression. Demolition debris is being collected and organized in to the following debris categories:

- Painted concrete,
- Unpainted concrete.
- Painted wood, and
- Unpainted wood.

Any painted debris is treated with Maectite prior to loading and transfer to the R-2 Unit.

1600 – Item of potential historical interest recovered near Bldg 623 in debris pile, item is recorded, photographed, collected and labeled accordingly (A623-1 7/21/12 1600). Location will be marked with flagging when debris is cleared from location.

1630 – Geosyntec completes weekly health and safety inspection checklist.

1730 – End of day.

<u>End of day totals</u>

Approximately 9 gallons of Maectite used today during demolition activities in DU1.
3 loads of metal demolition debris from the cable buildings in DU1 was hauled to the separate, project specific metal stockpile near the Sea Plane Hanger.

26 loads of treated soil were hauled to the R-2 Unit.

<u>Cumulative totals</u>

Approximately 3766 gallons of Maectite has been applied to date. Covering approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 16,960 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Approximately 4048 CY of soil hauled to R-2 unit. Estimate is based on an estimated 3.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Photographs:

Photo 01 – NWDE begins removing steel and wood from Bldg 623 with dust suppression.

Photo 02: - NWDE completing demolition of Bldg 623 with dust suppression.

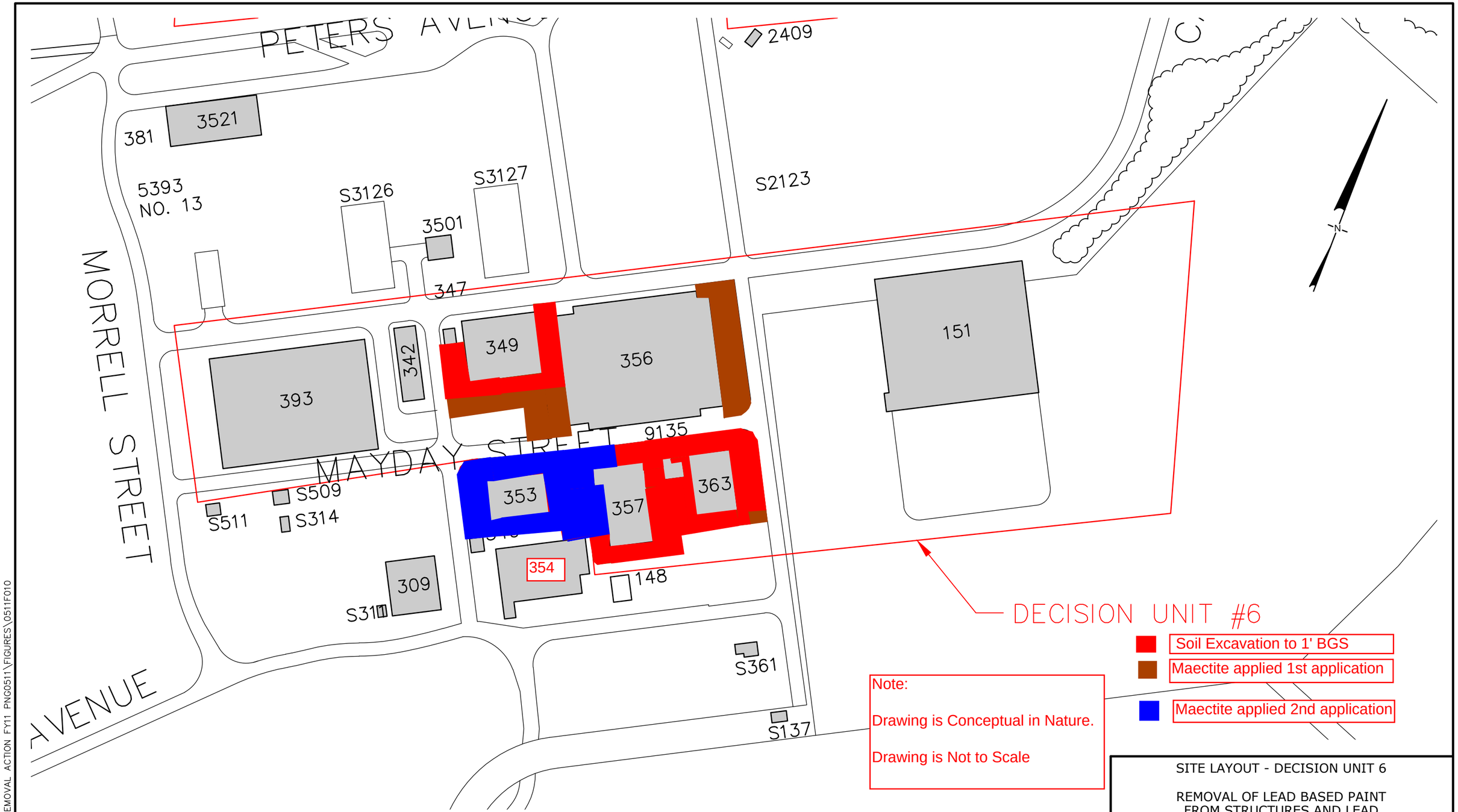
Photo 03: Nightly cover of treated soil / demo debris in R-2 Unit.

Photo 04: NWDE continues loading out trucks on southwest corner of Bldg 356.

Photo 05: Iniki continues priming / painting activities at Bldg 643.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the building locations under demolition in DU1.



NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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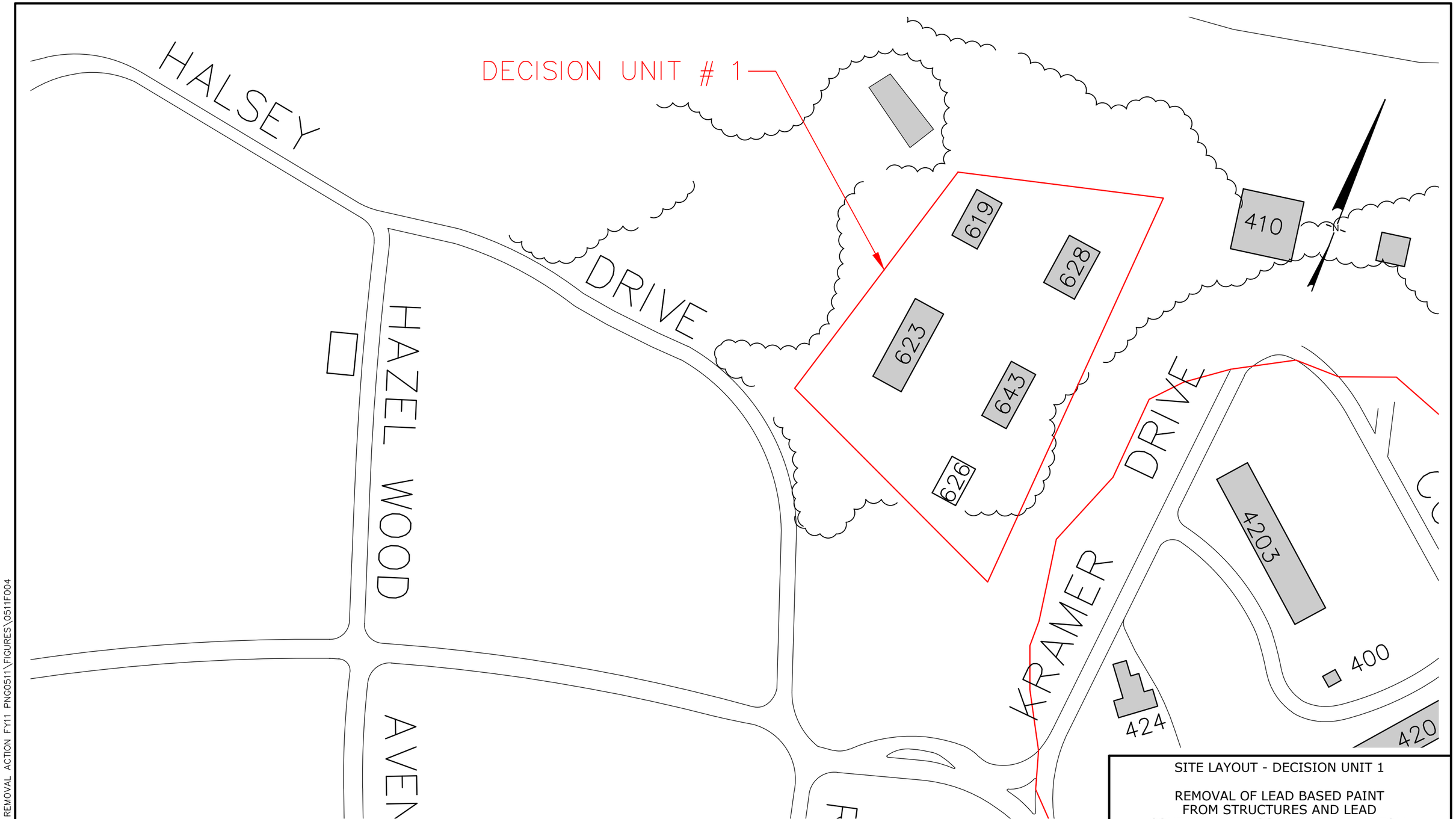

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Sunday July 22, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, slight breeze, temps mid 80s

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	0
Christa Tyrrell	NWDE SSHO / QC	0
Darin Liebelt	NWDE PM	0
Everett White	NWDE Super	0
Alan Philips	NWDE Operator	0
Dave Hard	NWDE Operator	0
Mike Saiki	NWDE Operator	0
Jose Ordaz	NWDE Operator	0
Jevon Stone	NWDE Operator	0
Sean Monear	NWDE Operator	0
Joel Smith	NWDE Laborer	0
Christian Nelson	NWDE Laborer	0
Jeremy Kauwe	Iniki Super	5.5
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	5.5
Darrin Engoring Jr	Iniki Lead Abate	5.5
Evan Esposito	Iniki Painter	5.5
Noah Wond	Iniki Painter	5.5
Armando Viloria	Iniki Painter	10
Mohammed Rouf	Globetech IH	0

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE

Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

Entire Iniki crew resumes abatement and painting activities at Bldg 643.

0715 – M. Schott safety check on site.

0845 – Iniki continues detail painting with gray finish paint on railing of 1st and 2nd floors on N side of building.

Daily activities include flushing pump sprayer, touch up of building, hand painting of windows with gray finish paint and rails on North, West, and East sides of Bldg 643.

Crew met with historical carpenter for discussion of abatement of windows and doors that were to be replaced so that they could be abated.

1200 – Lunch

1230 – Iniki partial crew (D. Borero and A. Viloria) return to site to continue painting trim and railings on Bldg. 643.

1700 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals		Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	9[3]	3766	572	4048	0	0
07/22/12	0	3766	0	4048	0	0

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.
3. Applied in DU1 for demolition purposes.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 16,960 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

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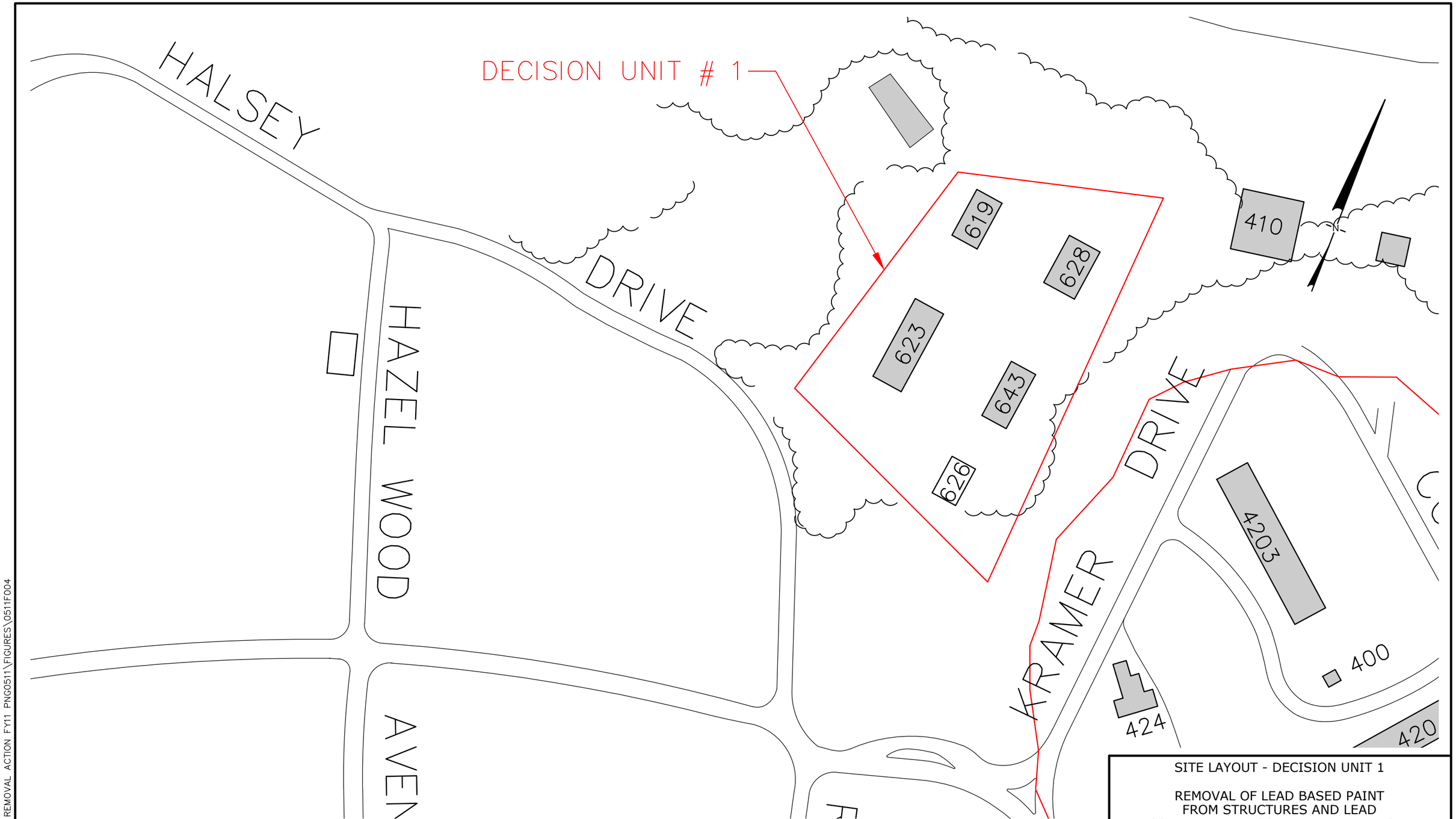
Photographs:

Photo 01 – Iniki crew continues painting on North side of Bldg 643.

Photo 02: - Iniki crew continues painting on North side of Bldg 643.

Site Map

The attached site maps show the building locations being abated and painted in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, July 23, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, slight breeze, temps mid 80s, rained Sunday night

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Christa Tyrrell	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Mohammed Rouf	Globetech IH	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE

Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	245 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities.

0700 – Group meeting with both Iniki and NWDE at FWS office.

0715 - NWDE conducts safety briefing.

0730 - NWDE demolition crew (A. Philips and C. Nelson) work to repair excavator hydraulic line leak.

Entire Iniki crew continues painting Bldg 643

0740 - NWDE excavation crew (D.Hard, J. Stone, and J. Smith) continue excavation of NE side of 349 and prepare to move to excavator around to North side of 356.

0800 – Iniki continues finish coat on trim of 2nd floor of west and south sides and railing on east side of Bldg 643.

NWDE crew set up caution tape for visitor control on east side of DU1.

Air monitoring continues at Bldg 349 soil excavation area (for lead) and at Bldg 623 demolition area (for asbestos). Stationary sampling pumps are placed upwind and downwind at both locations, additionally one NWDE crew member at each location has been equipped with a portable personal sampling device inside the work area.

0925 – US FWS PM requests item found on Saturday at DU1 be recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A623-2.

0934 – NWDE excavation crew completed with area surrounding Bldg 349 and have moved to north side of Bldg 356.

0940 – M. Schott and C. Tyrrell advise M. Rouf of work area change so that air monitors can be moved to active work area.

DBSI was able to make a replacement hydraulic hose for the excavator at DU1.

1000 – Demolition crew excavator fixed and crew continues cleanup of demolition of Bldg 623 with dust suppression and Maectite treatment of building debris in DU 1.

D. Liebelt, J. Kauwe, M. Schott, and C. Tyrrell attend weekly project conference call with US FWS PM and others.

1020 – Excavation with dust suppression continues on north- northwest corner of Bldg 356. NWDE continues load out trucks with dust suppression.

1200 – Lunch

1230 – NWDE demolition crew (A. Philips, C. Nelson) continues load out with dust suppression and sorting and Maectite treatment of building debris in DU1. M. Saiki driving off road truck.

Iniki (entire crew) continues painting trim work on the lower level of the south side of the building and stairs and the east side of Bldg 643.

US FWS PM requests item found at DU1 be recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A626-2.

1430 – NWDE excavation crew (D.Hard, J. Stone, and J. Smith) continue excavation 1 foot below grade with dust suppression on north and northeast sides of Bldg 356. S. Monear driving off road truck.

1551 - NWDE excavation crew continues excavation with dust suppression on north and northeast sides of Bldg 356.

1620 – NWDE demolition crew continue continues load out with dust suppression and sorting and Maectite treatment of building debris in DU1.

Iniki continues painting trim work on Bldg 643.

1655 – M. Schott and C. Tyrrell consult airport manager Tim Deike regarding FAA Notice of Construction application form and advise of potential finish construction options for R-2 unit.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals		Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	9[3]	3766	572	4048	0	0
07/22/12	0	3766	0	4048	0	0
07/23/12	28[3]	3794	385	4433	0	0

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.
3. Applied in DU1 for demolition purposes.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 16,960 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Demolition Debris:
11.5 loads of demolition debris were hauled to the R-2 unit for disposal.

Clean Wood:
1 load of clean wood was hauled today to a new project stockpile started out by the Sea Plane hangar.

Photographs:

Photo 01: NWDE continues sorting demolition debris from Bldg 623 with dust suppression.

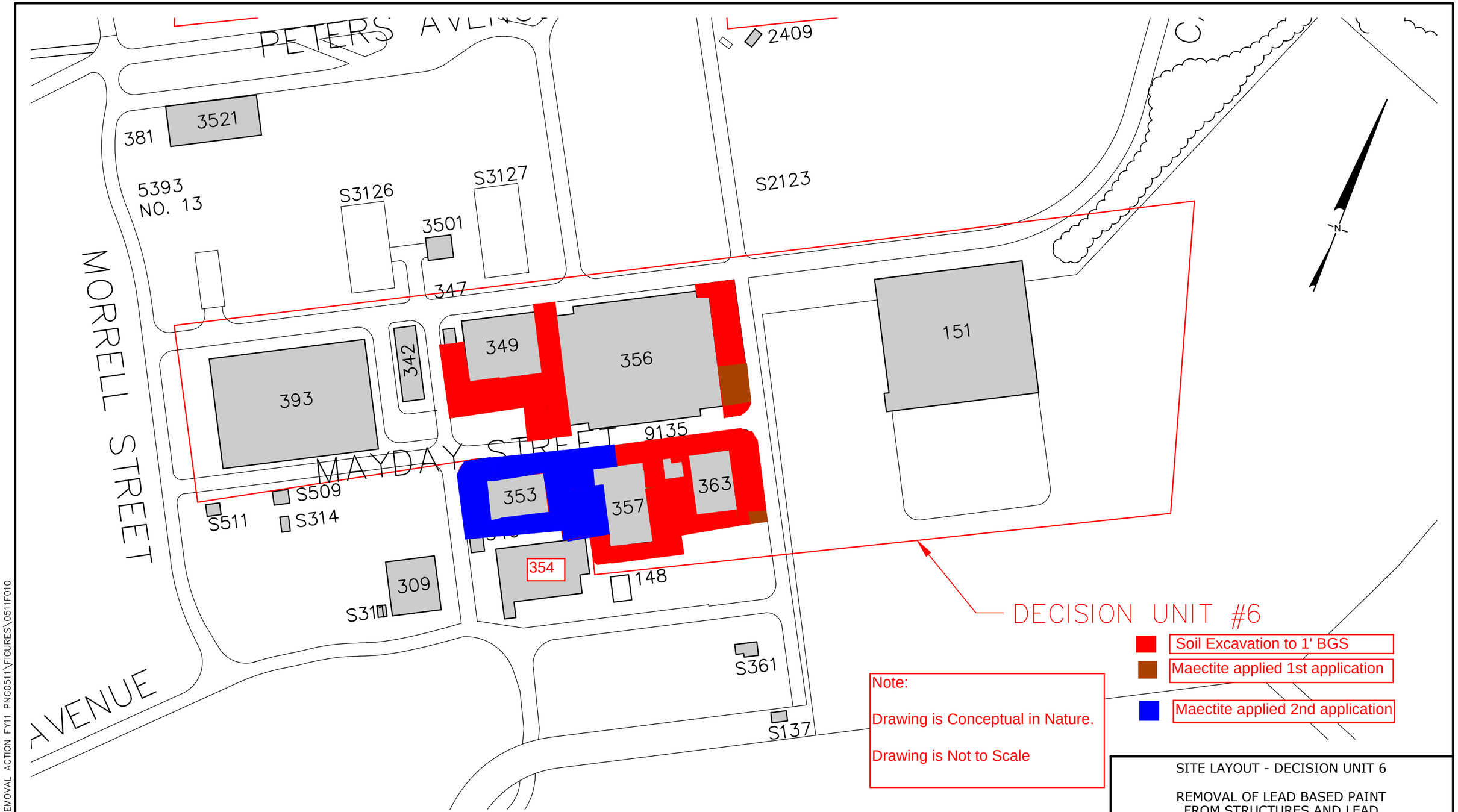
Photo 02: NWDE continues excavation around Bldg 356 and load out of treated soil with dust suppression.

Photo 03: Iniki continues painting on south and west sides of Bldg 643.

Photo 04: Nightly cover of treated soil / demo debris in R-2 unit.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the building locations under demolition and being painted in DU1.



NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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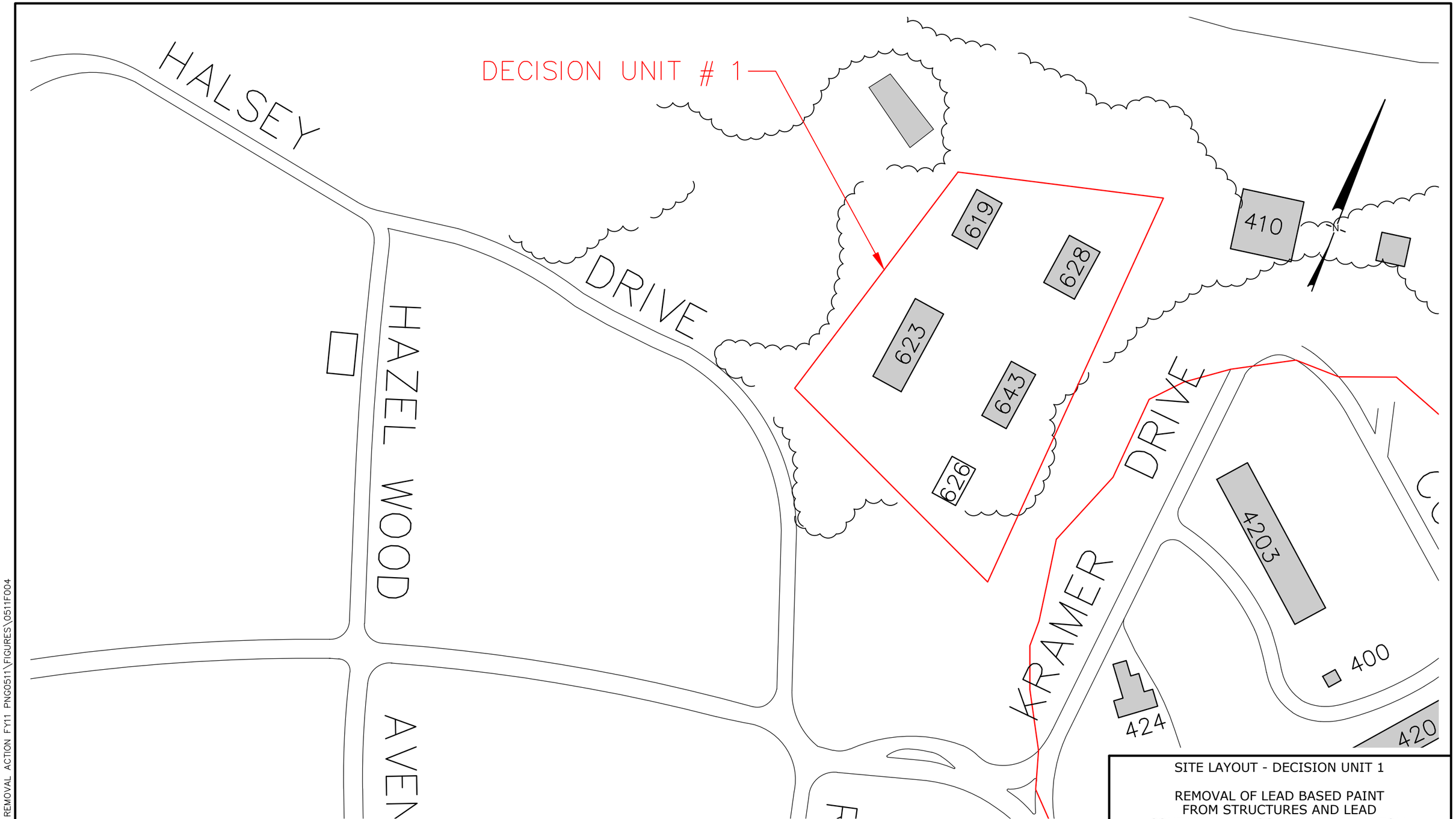

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LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, July 24, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Rain showers, cloudy, breezy, temps low 80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Christa Tyrrell	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Jeremy Kauwe	Iniki Super	10
Dane Borero	Iniki Lead Abate	10
Derreck Butay	Iniki Lead Abate	10
Darrin Engoring Jr	Iniki Lead Abate	10
Evan Esposito	Iniki Painter	10
Noah Wond	Iniki Painter	10
Armando Viloria	Iniki Painter	10
Mohammed Rouf	Globetech IH	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE

Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		4.6 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	80 gallons	

Description of Work:

0630 – Iniki conducts daily safety meeting and prepares for the day's activities. Expect to complete work on Bldg 643 and begin demobilization.

0700 – NWDE conducts safety briefing.

0730 - NWDE demolition crew (A. Philips and C. Nelson) continue loading and sorting materials of Bldg 623 demolition debris.

Entire Iniki crew continues painting Bldg 643 south and east sides.

0740 - NWDE excavation crew (D.Hard, J. Stone, and J. Smith) continue excavation of NE side of Bldg 356.

Air monitoring continues at Bldg 356 soil excavation area (for lead) and at Bldg 623 demolition area (for lead and asbestos). Stationary sampling pumps are placed upwind and downwind at both locations, additionally one NWDE crew member at each location has been equipped with a portable personal sampling device inside the work area.

1019 – Item found by NWDE PM at DU1 while removing shadecloth. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A619-1.

1045 – NWDE demolition crew continues cleanup of demolition of Bldg 623.

Iniki continues finish coat on trim of south and east sides of Bldg 643.

D. Leibelt, M. Schott, and C.Tyrrell lay out plastic for off road trucks at site to minimize truck tire soil transfer off site.

1145 – NWDE excavation crew continues load out of treated soils from NE corner of Bldg 356. Excavator is fitted with rake in preparation for 2nd Maetite application around Bldg 357 and 363 in DU6.

1200 – Lunch

1230 – NWDE demolition crew (A. Philips, C. Nelson) continues load out with dust suppression and sorting of building debris in DU1.

Iniki (entire crew) continues painting and begins cleaning up and demobilizing equipment and supplies from Bldg 643.

1330 - M. Schott and C. Tyrrell begin MIS sampling of Bldg 349 (MIS sample complete for Bldg 349).

1500 – NWDE crew (J. Stone, M, Saiki, and J. Ordaz) move across the street to the eastern half of DU6 for 2nd Maectite application around Bldgs 357 and 363.

1525 – NWDE crew hit Bldg 357 water line at approximately 1 foot below original grade, causing a minor leak. US FWS personnel are notified. Water leak is fixed.

1530 - NWDE demolition crew continues load out with dust suppression and sorting at DU1.

Iniki continues painting, clean up and demobilization at Bldg 643.

1630 - M. Schott and C. Tyrrell collect 2 aliquots for MEP sample from R-2 unit. NWDE crew pulls nightly cover over R-2 unit.

1710 – Iniki crew completes abatement and painting of Bldg 643.

NWDE demolition crew continues load out and sorting debris from Bldg 623.

NWDE excavation crew completes excavation down to 1 foot below grade Bldg 356.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals		Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	9[3]	3766	572	4048	0	0
07/22/12	0	3766	0	4048	0	0
07/23/12	28[3]	3794	385	4433	0	0
07/24/12	21	3815	220	4653	0	0

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.
3. Applied in DU1 for demolition purposes.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 17,715 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Demolition Debris:
14 loads of demolition debris were hauled to the R-2 unit for disposal.

Metal Debris:
1 container of metal debris was hauled to the metal stockpile by the Sea Plane hangar

Clean Concrete:
2 loads of clean concrete was hauled today to the project stockpile by the Sea Plane hangar.

Clean Wood:
1 load of clean wood was hauled today to a new project stockpile started out by the Sea Plane hangar.

Photographs:

Photo 01: NWDE continues load out of demolition debris from Bldg 623.

Photo 02: Iniki continues painting on south and west sides of Bldg 643.

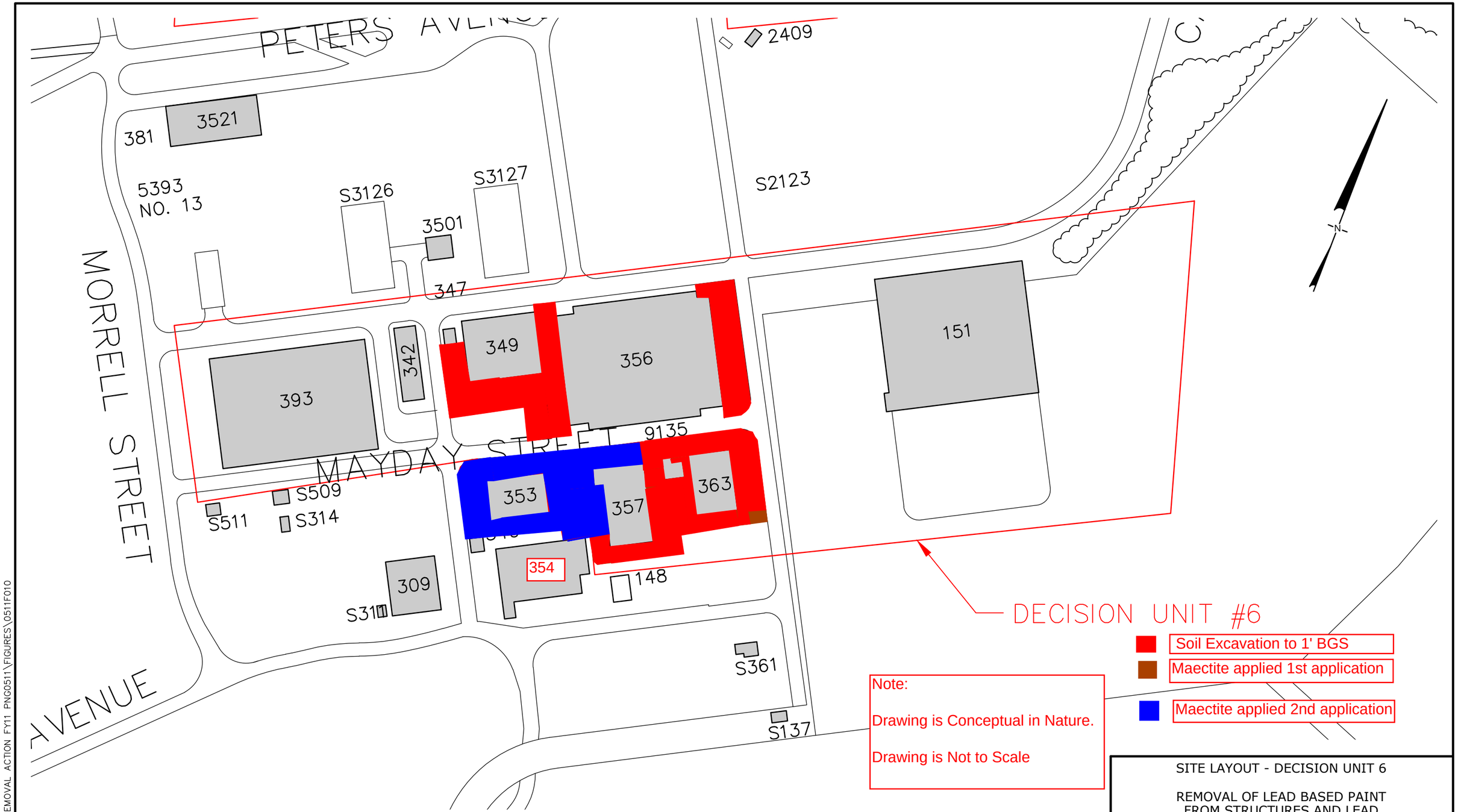
Photo 03: Abatement and painting of Bldg 643 complete.

Photo 4: Abatement and painting of Bldg 643 complete.

Photo 05: Nightly cover of being pulled over treated soil / demo debris in R-2 unit.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the building locations under demolition and being painted in DU1.



NOTES:

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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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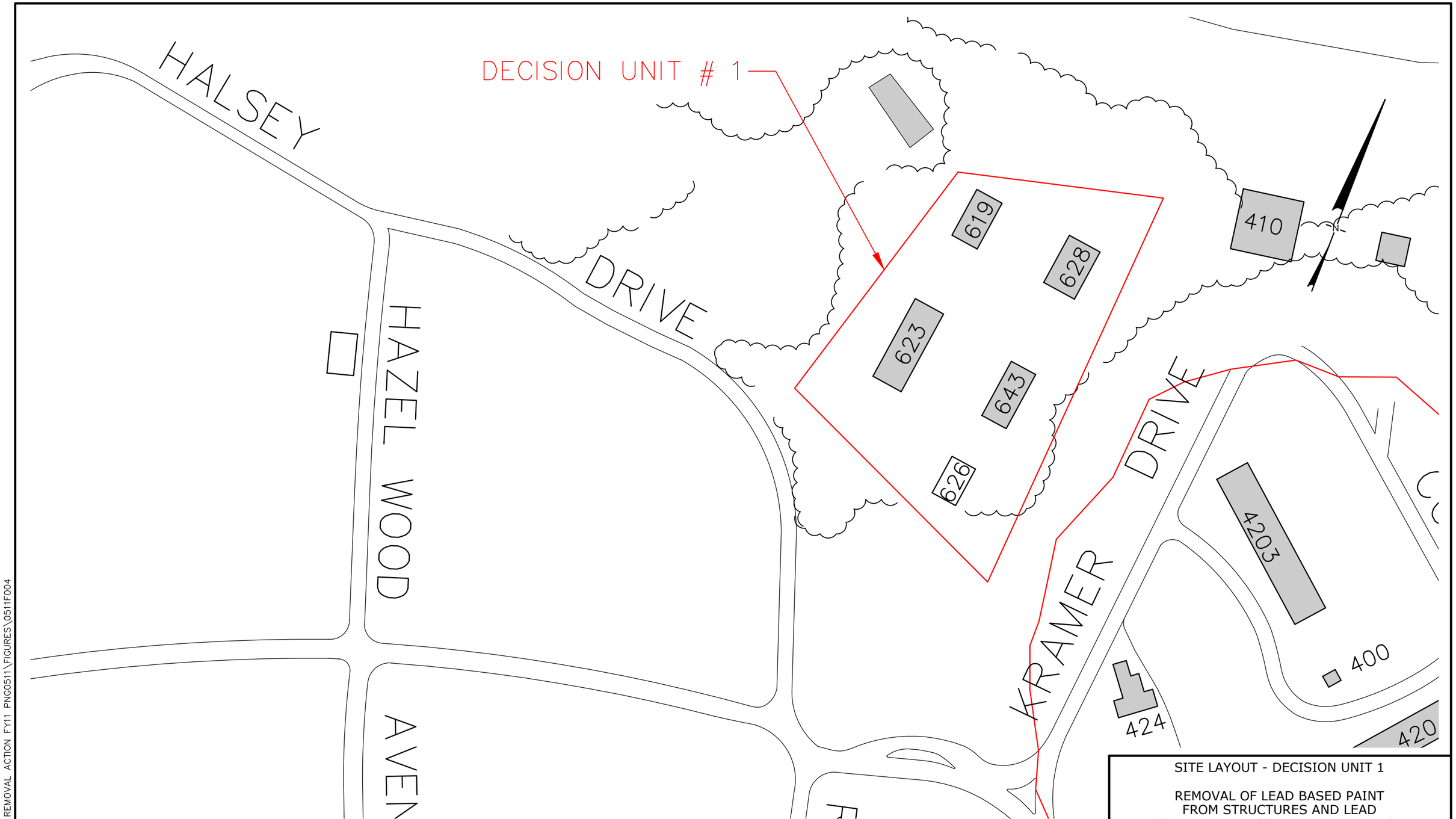

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

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Daily Field Report

Date: Wednesday, July 25, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Rain showers, cloudy, windy, temps mid-80s, thunderstorms and precip Tuesday night, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Michael Schott	NWDE SSHO / QC	10
Christa Tyrrell	NWDE SSHO / QC	10
Darin Liebelt	NWDE PM	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10
Jeremy Kauwe	Iniki Super	0
Dane Borero	Iniki Lead Abate	0
Derreck Butay	Iniki Lead Abate	0
Darrin Engoring Jr	Iniki Lead Abate	0
Evan Esposito	Iniki Painter	0
Noah Wond	Iniki Painter	0
Armando Viloria	Iniki Painter	0
Mohammed Rouf	Globetech IH	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	

Description of Work:

0700 – NWDE conducts safety briefing.

0747 – NWDE Maectite crew (D. Hard, J. Stone, M, Saiki, J. Smith, and J.Ordaz) resumes 2nd application of Maectite on north side of Bldg 357 in DU6. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite and wetting with water follows Maectite application.

NWDE Demolition crew (A. Philips , C. Nelson, and S. Monear) continue loading and sorting materials of Bldg 623 demolition debris in DU1.

Air monitoring continues in demolition area (at Bldg 623 and later Bldg 619 for lead and asbestos). Stationary sampling pumps are placed upwind and downwind at both locations, additionally one NWDE crew member at each location has been equipped with a portable personal sampling device inside the work area.

0830 – Demolition of Bldg 623 and debris cleanup complete.

0845 – Shallow water line breaks at Bldg 357 in DU6 during raking process. Appropriate personnel are notified.

0850 – NWDE demolition crew begins removing steel and wood from Bldg 619 with dust suppression. U.S. FWS personnel present to document demolition.

0915 – M. Schott and C. Tyrrell mark footprint of Bldg 623 with T-posts.

0940 – NWDE Maectite crew continues 2nd Maectite application and mixing on E side of 363.

1015 – NWDE DU6 crew breaks shallow water line at Bldg 363. Appropriate personnel are notified.

1135 – NWDE DU1 crew continues demolition of Bldg 619.

1200 – Lunch

1230 – NWDE demolition crew (A. Philips, C. Nelson, S. Monear) continue demolition, sorting of materials and Maectite application of demolition debris in DU1.

NWDE Maectite crew ((D. Hard, J. Stone, M, Saiki, J. Smith, and J.Ordaz) continue 2nd Maectite application and mixing on the east side of Bldg 363. North side of Bldg 357 (2nd Maectite application and mixing) is complete.

1300 – M. Schott and C. Tyrrell begin collecting atmospheric sample for deposition of lead (end time 1525). Sample complete for atmospheric deposition of lead.

M. Schott and C. Tyrrell begin MIS sampling of Bldg. 356 (including Dup-9 and Dup-10). MIS sample complete for Bldg 356.

1600 – NWDE Maectite crew continues 2nd Maectite application and mixing on west and south sides of Bldgs. 357 and 363.

1620 – NWDE demolition crew work to repair power washer for Maectite application of building debris. Iniki on site to assist in troubleshooting, personnel unable to isolate problem. NWDE power washer brought in for replacement.

1700 – NWDE Maectite crew complete 2nd application of Maectite on west and part of south sides of Bldg 357 in DU6.

1715 – Stationary air monitors taken down surrounding demolition area in DU1.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)		Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
	Soils	Demolition Debris					
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 27,193 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Metal Debris:
3 containers of metal debris was hauled to the metal stockpile by the Sea Plane hangar.

Clean Concrete:
1 load of clean concrete was hauled today to the project stockpile by the Sea Plane hangar.

Clean Wood:
1 load of clean wood was hauled today to a new project stockpile started out by the Sea Plane hangar.

Photographs:

Photo 01: NWDE finishing cleanup of demolition debris from Bldg 623.

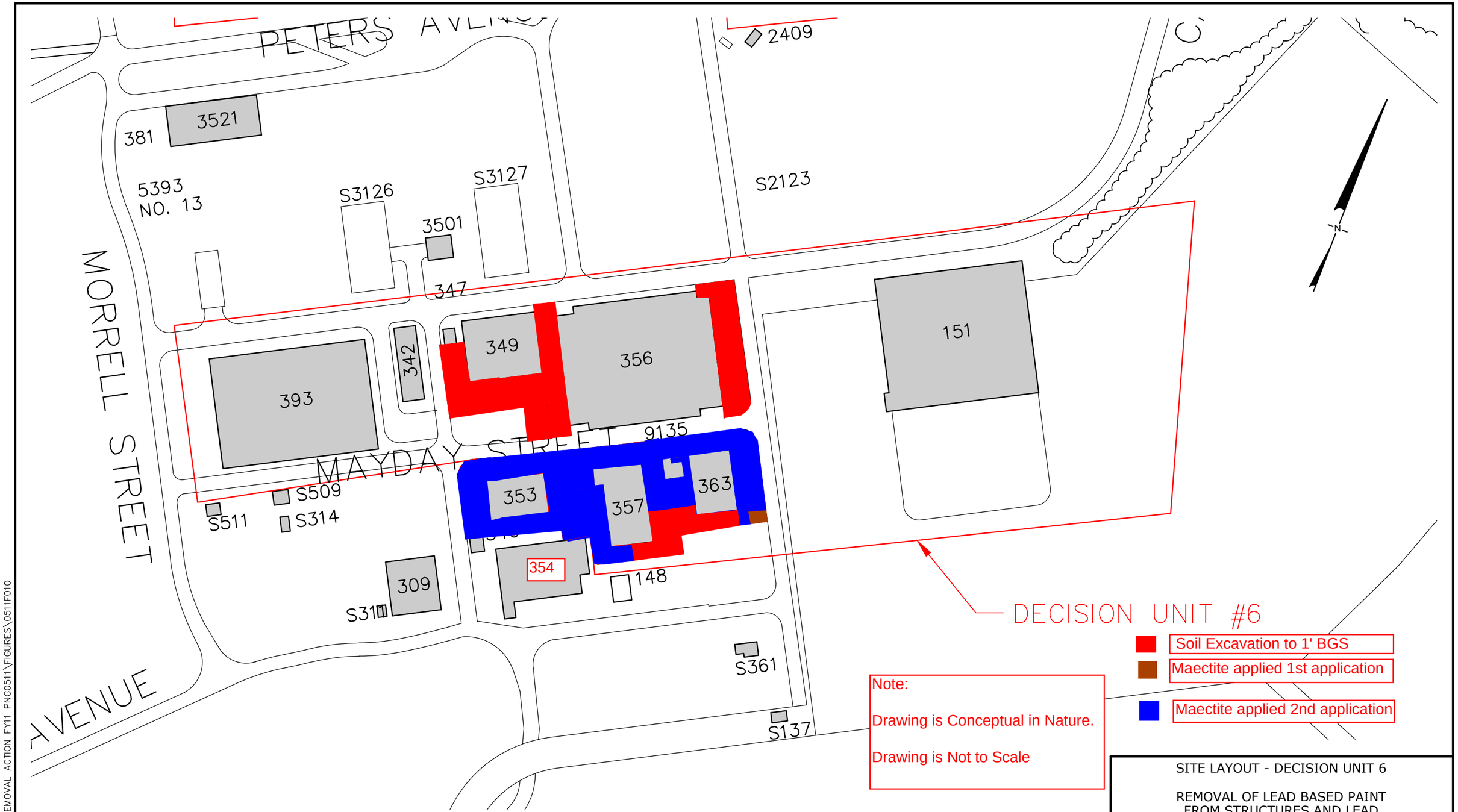
Photo 02: NWDE begins demolition of Bldg 619.

Photo 03: NWDE sorting demolition debris from Bldg 619 with dust suppression.

Photo 4: NWDE crew continues 2nd application of Maectite around Bldg 357.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the building locations under demolition in DU1.



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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
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NORTH WEST DEMOLITION
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A JOINT VENTURE

OCTOBER 2011

Figure:
8

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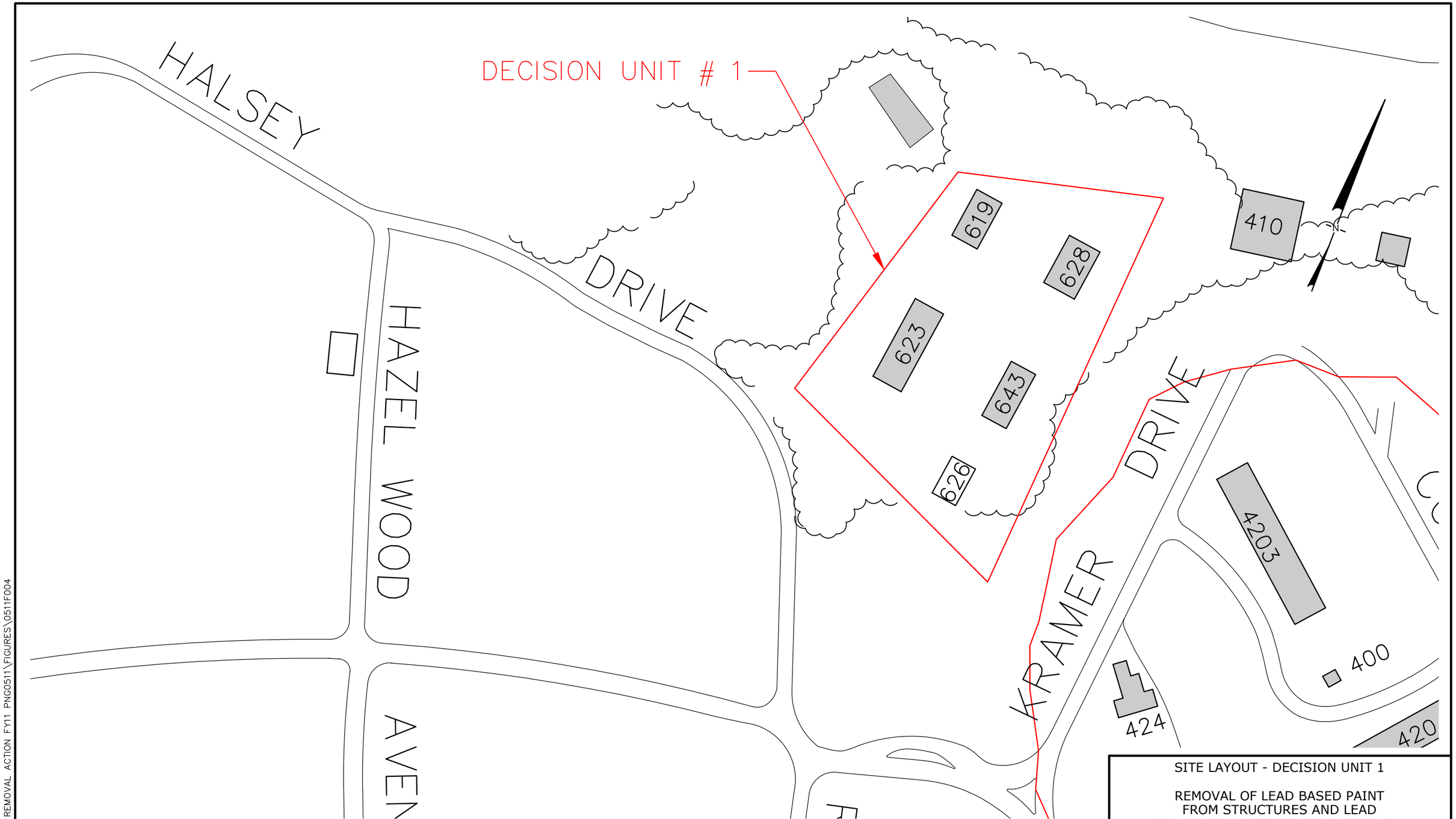

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, July 26, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy in the morning, breezy, temps upper 80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		1.7 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	

Description of Work:

0700 – NWDE conducts safety briefing.

0740 – NWDE Maectite crew (D. Hard, J. Stone, M, Saiki, J. Smith, and J.Ordaz) resumes 2nd application of Maectite on south west side of Bldg 357 in DU6. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite and wetting with water follows Maectite application.

NWDE demolition crew (A. Philips , C. Nelson, and S. Monear) continue load out, sorting materials, and Maectite treatment of demolition debris from Bldg 619 in DU1.

0915 – NWDE demolition crew continue load out, sorting of materials, and Maectite treatment of demolition debris from Bldg 619.

NWDE Maectite crew continues 2nd Maectite application and mixing to a 1 foot depth between and on the south side of Bldg 357 and Bldg 363.

0930 – NWDE Demolition debris sorting continues with Maectite application. Off road truck loads are suspended due to airport restrictions for weekly flight.

Darin Leibelt, Michael Schott, Mohammad Rouf, and entire Iniki crew depart on the weekly flight from Midway Atoll.

1030 – NWDE Maectite crew moves to the northern half of DU6 for 2nd Maectite application on east side of Bldg 356. Bldgs 363, 357, and 353 2nd Maectite application and mixing is complete.

1147 – NWDE demolition crew continue load out and sorting of demolition debris from Bldg 619.

1200 – Lunch

1230 – NWDE demolition crew (A. Philips, C. Nelson, S. Monear) continue load out and sorting of Bldg 619 demolition debris with dust suppression in DU1.

NWDE Maectite crew ((D. Hard, J. Stone, M, Saiki, J. Smith, and J.Ordaz) continue 2nd Maectite application and mixing around Bldg 356 and Bldg 349.

1300 – C. Tyrrell on site at DU1 for removal of building pad from Bldg 619 as per US FWS request.

NWDE demolition crew begins removal of Bldg 629 building pad.

1340 – Shallow water line breaks just north of Bldg 619 pad in DU1 during building pad removal process. Appropriate personnel are notified.

Utilities in DU1 are located and markings refreshed for current demolition activities in DU1.

1423 – NWDE demolition crew continues removal of Bldg 619 building pad.

Caution tape is extended around demolition areas in DU1 with the arrival of NOAA ship and personnel on island.

1443 – Tracked skid steer repaired with part that came in on weekly flight and in use again in DU6.

1520 – NWDE demolition crew continue load out and sorting of building debris from Bldg 619 with dust suppression. Building pad removal in progress.

1600 – NWDE Maectite crew completes Maectite application and mixing on east side of Bldg 356 and start 2nd Maectite application and mixing between Bldg 356 and Bldg 349.

1650 – NWDE demolition crew continues demolition of Bldg 619 sorting of debris and building pad removal (approximately 60% complete with pad removal by the end of the day).

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)		Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
	Soils	Demolition Debris					
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load deposited in the R-2 unit.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,250 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 46,312 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE load out of metal debris from demolition of Bldg 619.

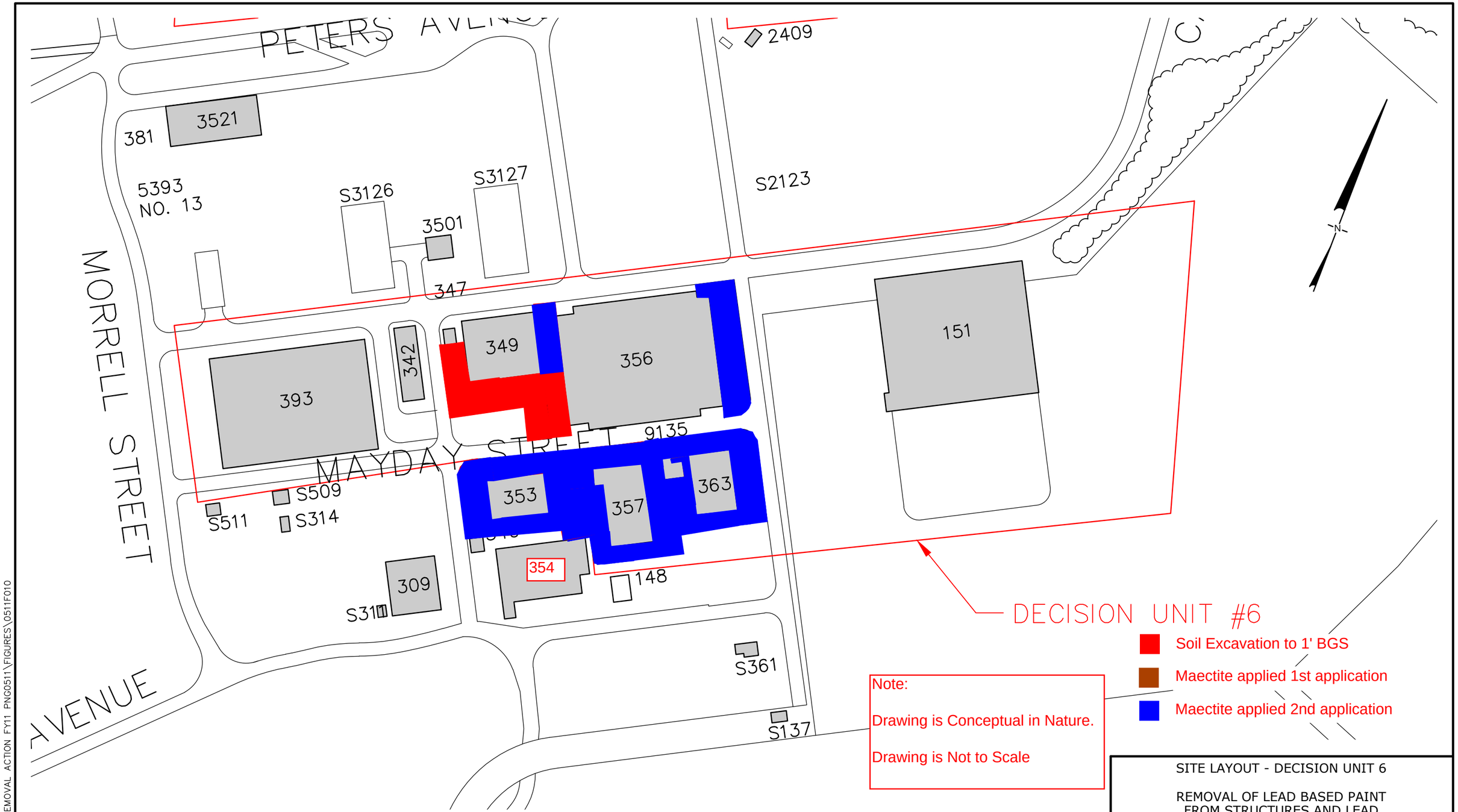
Photo 02: NWDE load out of demolition debris from Bldg 619.

Photo 03: NWDE mixing in 2nd application of Maectite in DU6.

Photo 04: NWDE crew 2nd application of Maectite between Bldg 349 and Bldg 356.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the building locations under demolition in DU1.



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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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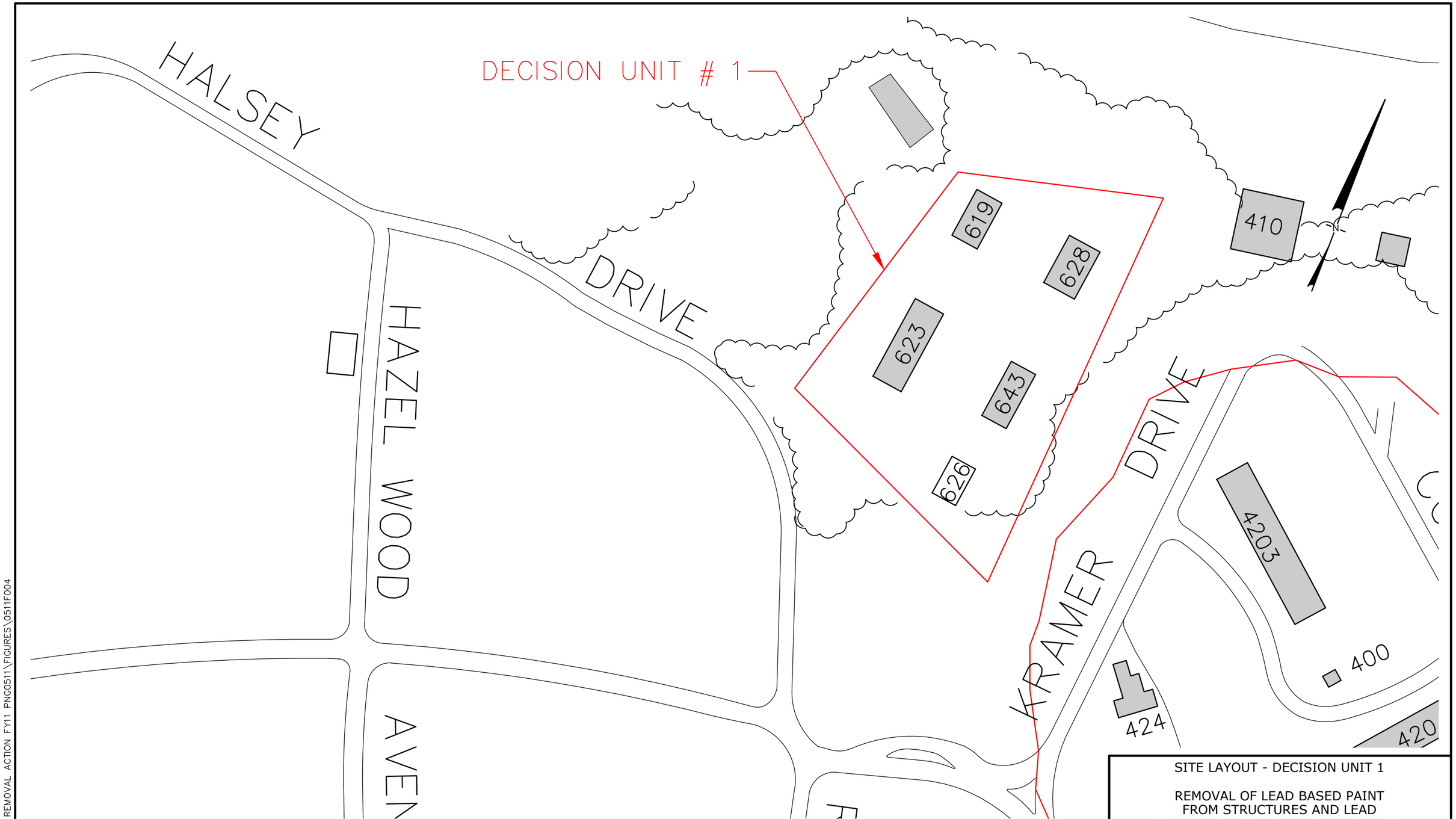

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SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, July 27, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Scattered rain showers, light breeze, temps upper 80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE Maectite crew (D. Hard, J. Stone, M, Saiki, J. Smith, and J.Ordaz) resumes 2nd application of Maectite on south and west side of Bldg 349 in DU6. Crews prepare for Maectite application around small build on the west side of 349. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite and wetting with water follows Maectite application.

NWDE demolition crew (A. Philips , C. Nelson, and S. Monear) continue load out, and sorting demolition debris, from Bldg 619 in DU1.

C. Tyrrell onsite in DU1 for witness of building pad in demolition of Bldg 619 as per US FWS request.

0750 – NWDE demolition crew begins removal of building pad of Bldg 619.

0900 – NWDE Maectite crew begins laying shadecloth with a 1 foot overlap in southern half of DU6 around Bldg 353.

NWDE demolition crew continue load out of demolition debris from Bldg 619.

0950 – U.S. FWS notified of expected start time for demolition of Bldg 628.

1005 – Demolition of Bldg 619 complete and building footprint marked.

Off road truck deconned for use in clean sand fill transport.

NWDE demolition crew prepares Bldg 628 for demolition.

NWDE constructs ramp into sand borrow area between the Fuel Pier and the Cargo Pier. Excavation of clean sand fill begins (D. Hard and S. Monear).

1100 – NWDE Demolition crew begin demolition of Bldg 628 with dust suppression.

1110 – First load of clean sand dumped on top of shadecloth on west side of Bldg. 353.

NWDE Maectite crew continue 2nd Maectite application and mixing to a 1 foot depth on south side of Bldg 349.

1200 – Lunch.

1230 – NWDE demolition crew (A. Philips and C. Nelson) continue demolition with dust suppression of Bldg 628.

NWDE Maectite crew (J. Stone, M, Saiki, J. Smith) continue 2nd Maectite application on south and west sides of 349.

NWDE Maectite crew (D. Hard, S. Monear, and J.Ordaz) continue excavation, hauling, and grading of clean fill surrounding Bldg 353.

1315 – Excavator in borrow area encounters what appears to be a petroleum impacted layer of sand in borrow area just south of the Fuel Pier. Impacted sand approximately 4 feet in depth (at the water table) from the pile caps on the Fuel Pier and extending at least 10 to15 feet to the southeast toward the Cargo Pier. Appropriate U.S. FWS and project personnel notified.

1500 – Crew is advised to continue clean sand excavation in unsaturated zone within the borrow area, above the apparent impacted sand and water level and to maintain a clean zone in between excavation and water level to minimize possible exposure pathways and potential receptors.

1530 – NWDE demolition crew continue sorting and application of Maectite on demolition debris from Bldg 628.

NWDE Maectite crew completes 2nd Maectite application on south side of Bldg 349. Continue to work on 1st Maectite application around small shed on NW side of Bldg 349 within the tight work areas between the shed and Bldg 349 and carefully to avoid the many utility lines in the small area.

1620 – NWDE Maectite crew continues application of Maectite around the shed on the NW corner of Bldg 349. The 2nd application of Maectite and mixing on the south side and south west corner surrounding Bldg 349 is complete.

NWDE demolition crew continues sorting and Maectite treatment of demolition debris from Bldg 628.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 82,844 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 58,362 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: Demolition of Bldg 619 complete.

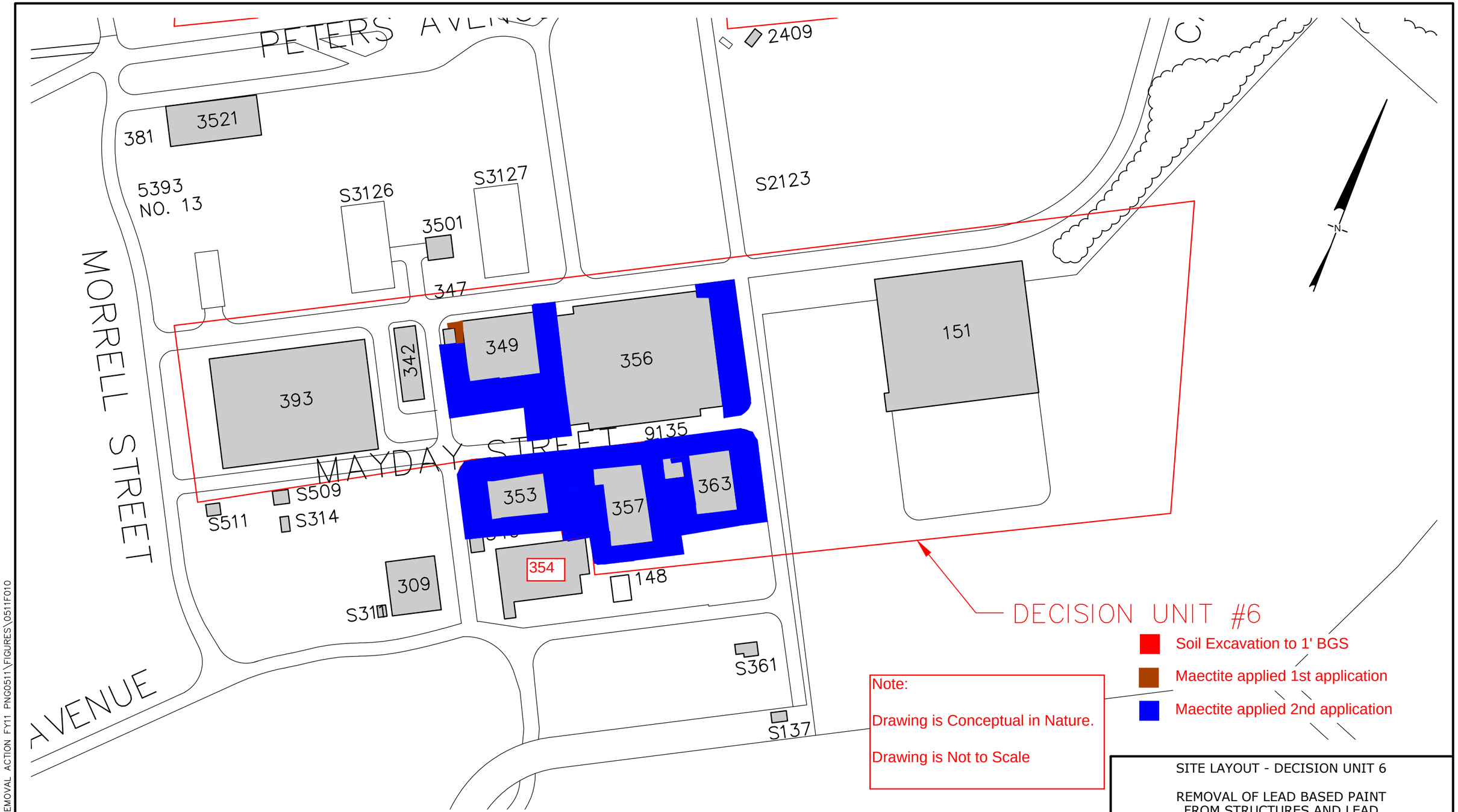
Photo 02: NWDE begins demolition of Bldg 628.

Photo 03: First load of clean sand fill brought in DU6.

Photo 04: NWDE crew 2nd application of Maectite on south side of Bldg 349.

Site Map

The attached site maps show the limits of Maectite application and the ongoing soil excavation in DU6 and the locations of buildings under demolition in DU1.



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SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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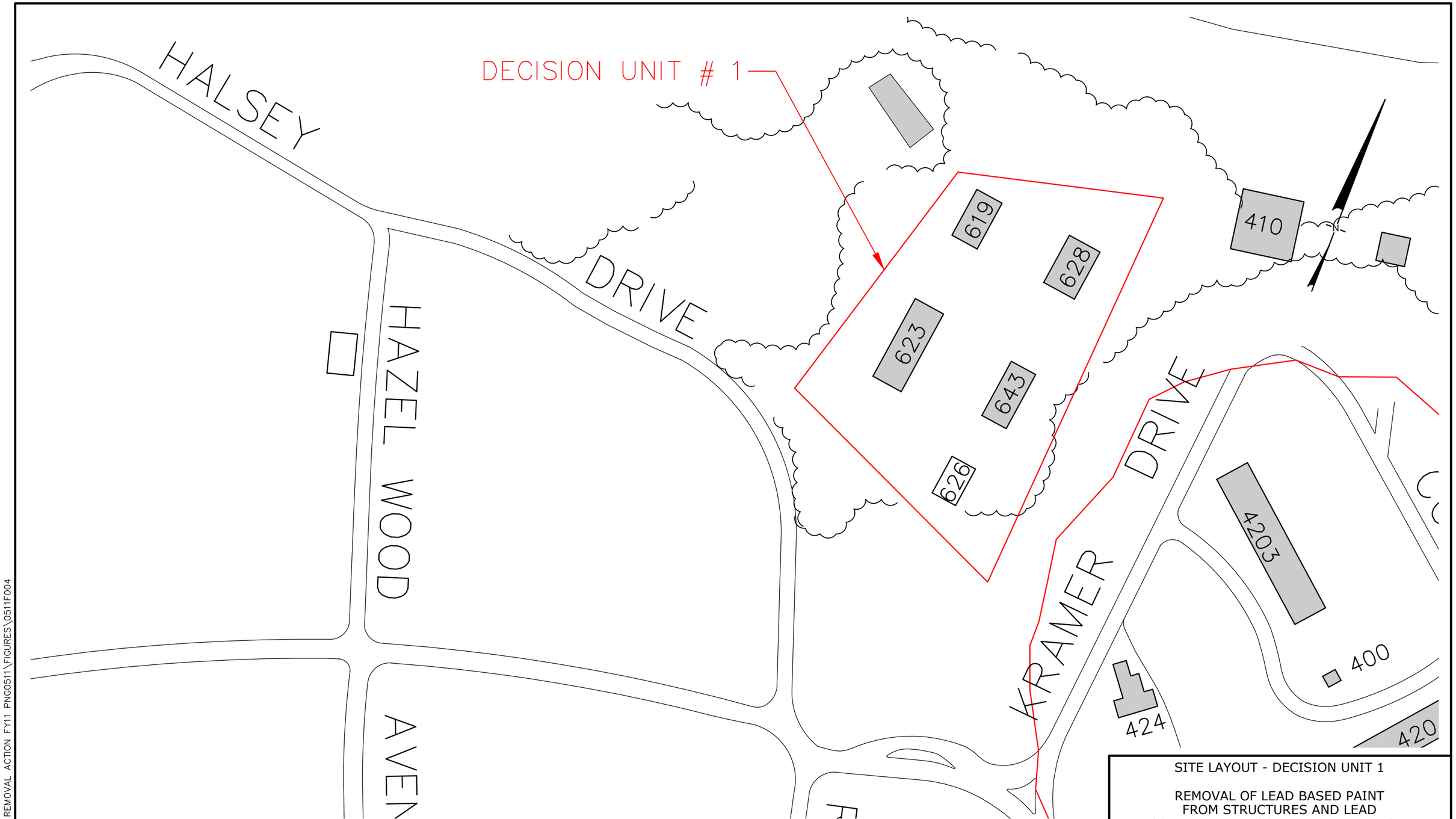

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, July 28, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, breezy, temps upper 80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		4.1 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	170 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0740 – NWDE demolition crew (A. Philips , C. Nelson, and S. Monear) load steel container on to truck for transport, prepare for continued demolition of Bldg 628.

0814 – NWDE demolition crew begins sorting of demolition debris with Maectite treatment from Bldg 628.

NWDE Maectite crew (J. Stone, M, Saiki, J. Smith) continues excavation around shed on west side of Bldg 349.

J. Ordaz continues to level out 1st foot of clean fill around Bldg 353.

0950 – NWDE demolition crew continues sorting, Maectite treatment, and load of demolition debris from Bldg 628.

1024 - NWDE Maectite crew complete with 1st Maectite application and excavation on north and east sides of shed near Bldg 349.

NWDE crew (D. Hard and J. Ordaz) lay shadecloth around south and east sides of Bldg 353 with one foot overlay of shadecloth edges and secured with sandbags in preparation for clean sand fill.

1130 – NWDE crew (D. Hard and J. Ordaz) continue laying shadecloth and sand bags on west and north side of Bldg 357.

NWDE Maectite crew excavate on west side side of the shed next to Bldg 349.

1200 – Lunch

1315 – NWDE Demolition crew (A. Philips , C. Nelson, and S. Monear) continue sorting and Maectite application on demolition debris from Bldg 628.

NWDE Maectite crew (J. Stone, J. Smith, and S. Monear) continue load out of material on west side of small shed next to Bldg 349.

J. Ordaz backdragging 1st foot of clean sand fill on north and west sides of Bldg 353.

1350 – NWDE demolition crew finishes Maectite application on Bldg 628 demolition debris and continue load out with dust suppression to R-2.

J. Ordaz continues backdragging with skid steer of clean sand material around Bldg 353.

1500 – NWDE Maectite crew pulls back shadecloth on northeast side of Bldg 342 for 1st Maectite application, mixing, and excavation.

NWDE demolition crew continues load out of demolition debris with dust suppression from Bldg 628.

1515 – C. Tyrrell collects 2 aliquots for MEP sample from R-2 unit.

1530 – D. Hard continues compaction and grading of R-2 unit with dozer.

1610 – C. Tyrrell onsite in DU1 to witness removal of building pad from Bldg 628 as per U.S. FWS request.

NWDE demolition crew begins removal of building pad from location of Bldg 628.

1641 – NWDE demolition crew continues load out of building debris from Bldg 628 with dust suppression.

1730 – End of day

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	36.5	18	5044	66	4719	0	374

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 83,474 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 59,045 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE demolition of Bldg 628.

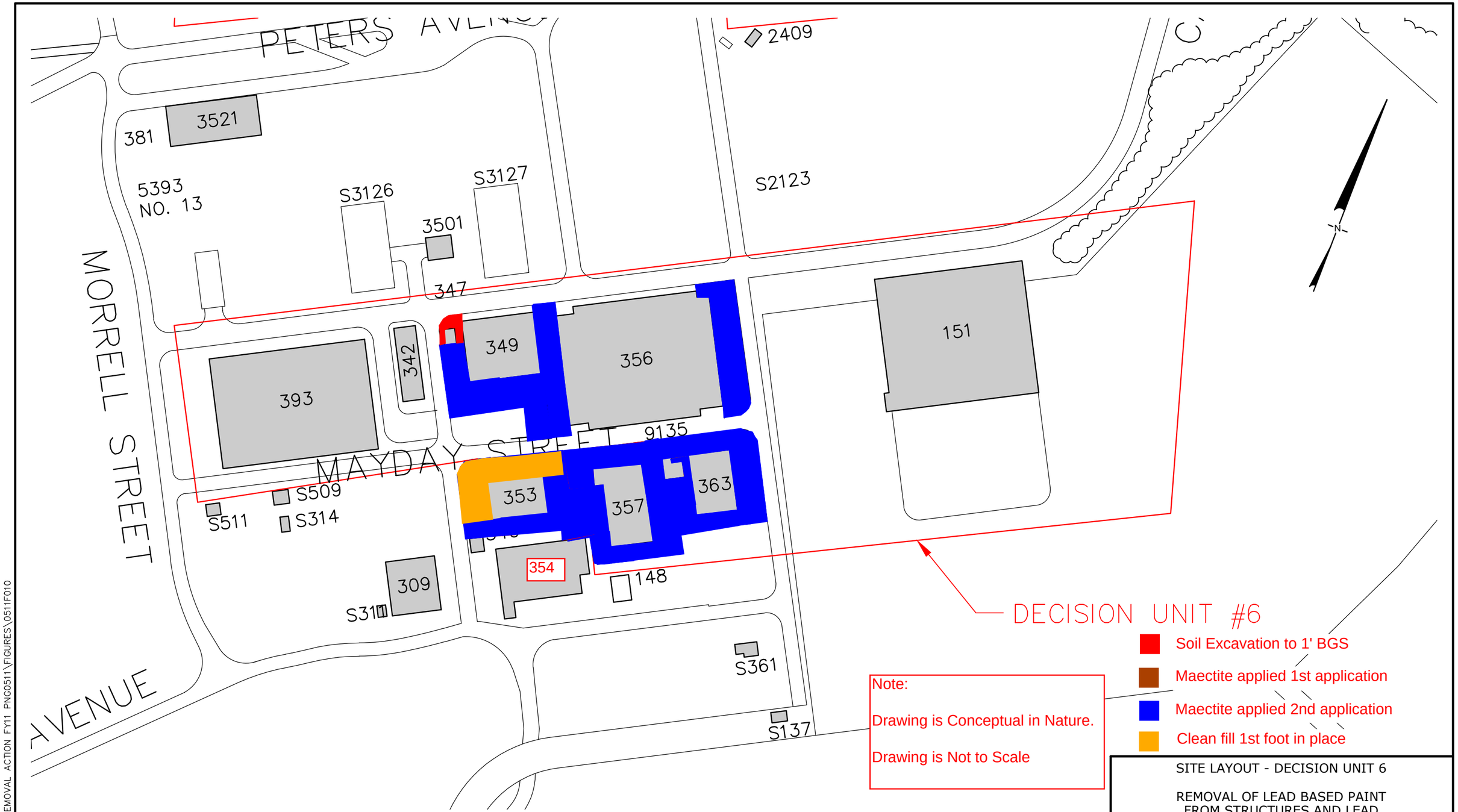
Photo 02: NWDE begins removal of building pad with dust suppression during demolition of Bldg 628.

Photo 03: Excavation of treated soils surrounding shed on west side of Bldg 353.

Photo 04: Shadecloth and first foot of clean fill on the east and north sides of Bldg 353.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6 and the locations of buildings under demolition in DU1.



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SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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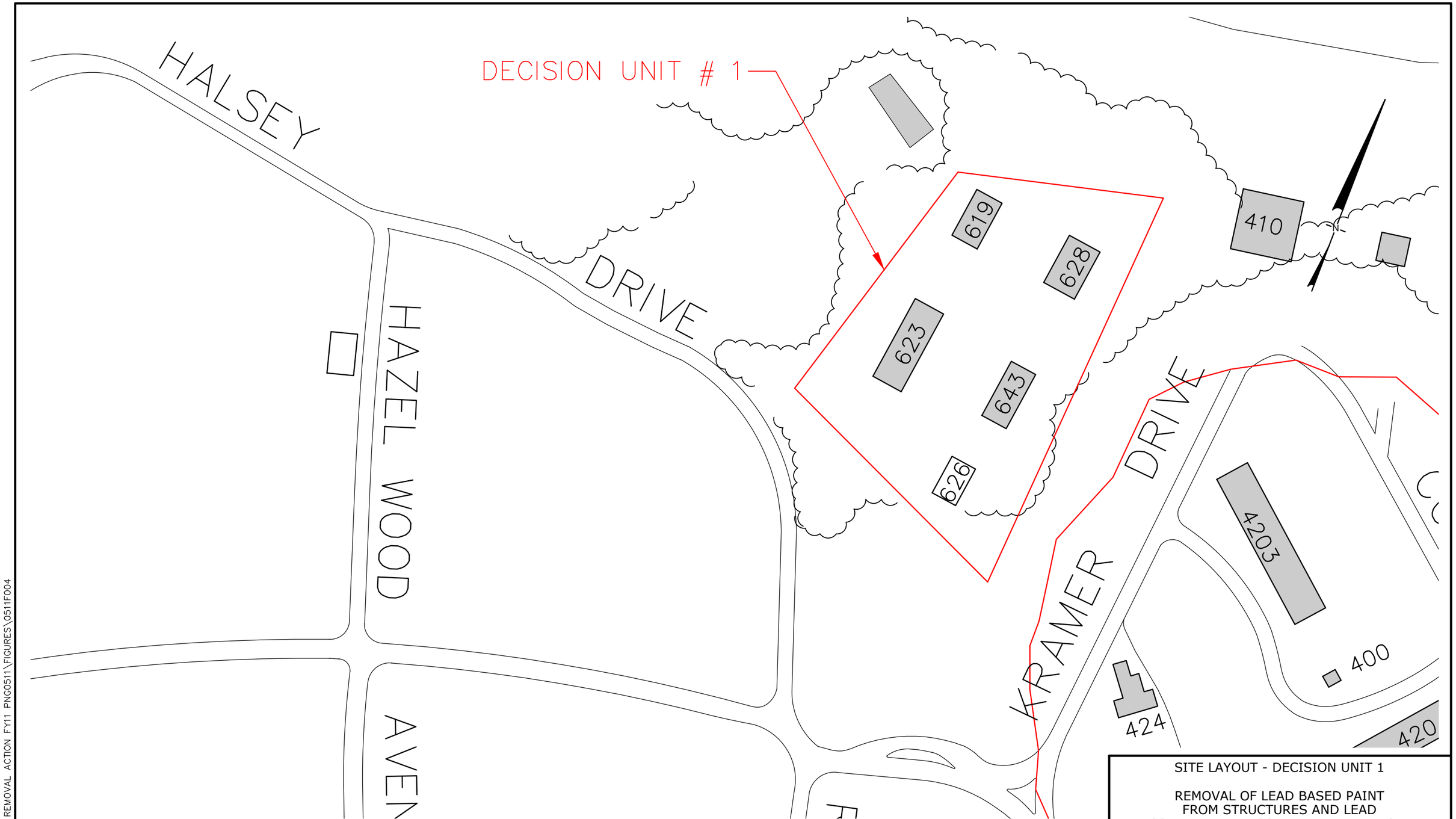

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0 120' 240'
SCALE IN FEET

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STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, July 30, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, scattered rain showers, breezy, temps mid-80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Manlift	JLG 450AJ	Iniki
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	90 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE Maectite crew (J. Stone, M. Saiki, J. Smith) remove shade cloth surrounding Bldg 342 and prepare for 1st Maectite application and excavation.

NWDE demolition crew (A. Philips , C. Nelson, and S. Monear) load out debris from Bldg 628 with dust suppression and spread out shadecloth in areas cleaned of demolition debris.

C. Tyrrell on site for building pad removal of Bldg 628, as per U.S. FWS request.

0750 – NWDE demolition crew continues removal of building pad from Bldg 628.

0800 – Antifreeze leak on excavator, unable to pinpoint at demolition site. Excavator is moved to pavement to troubleshoot problem.

0830 – Off road truck that was being used to haul demolition debris is deconned and switched over to hauling clean sand fill for DU6.

0924 – NWDE excavation of clean fill (D. Hard, M. Saiki, and S. Monear) from borrow area continues.

1000 – E. White and C. Tyrrell attend weekly project conference call in U.S. FWS Midway Office.

1030 – NWDE demolition crew excavator load out of demolition debris from Bldg 628 with dust suppression.

1045 – C. Tyrrell onsite in DU1 to witness removal of building pad during demolition of Bldg 628, as per U.S. FWS request.

NWDE Demolition crew continues removal of building pad during demolition of Bldg 628.

1200 – Lunch

1240 – NWDE demolition crew (A. Philips , C. Nelson) sort demolition debris from Bldg 628.

NWDE Maectite crew (J. Stone, and J. Smith) excavate north side of Bldg 342.

J. Ordaz back dragging clean fill around east and south corner of Bldg 353.

1310 – C. Tyrrell onsite in DU1 to witness removal of building pad during demolition of Bldg 628, as per U.S. FWS request.

NWDE demolition crew continues removal of building pad from Bldg 628.

1420 – NWDE has done as much pad removal as possible without the load out truck (running clean sand fill from borrow area to DU6). Begin to clean up any excess debris in previous demolition areas and grade building footprints.

NWDE Maectite crew (J. Stone, M. Saiki, and J. Smith) load out of excavation area around Bldg 342.

1450 – J. Ordaz continues back dragging clean fill around Bldg 349.

1630 – NWDE Maectite crew complete with excavation on east and north sides of Bldg 342. Maectite 2nd application on northwest side of Bldg 342.

1654 – NWDE Maectite crew hit small waterline on northwest corner of Bldg, 342. Water crews are onsite within minutes to fix line.

J. Ordaz completes 1 foot of clean sand fill around south side of Bldg 353 and west side of Bldg 357.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	36.5	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 85,111 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 59,675 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE removal of building pad during demolition of Bldg 628.

Photo 02: NWDE excavation of west side of Bldg 342.

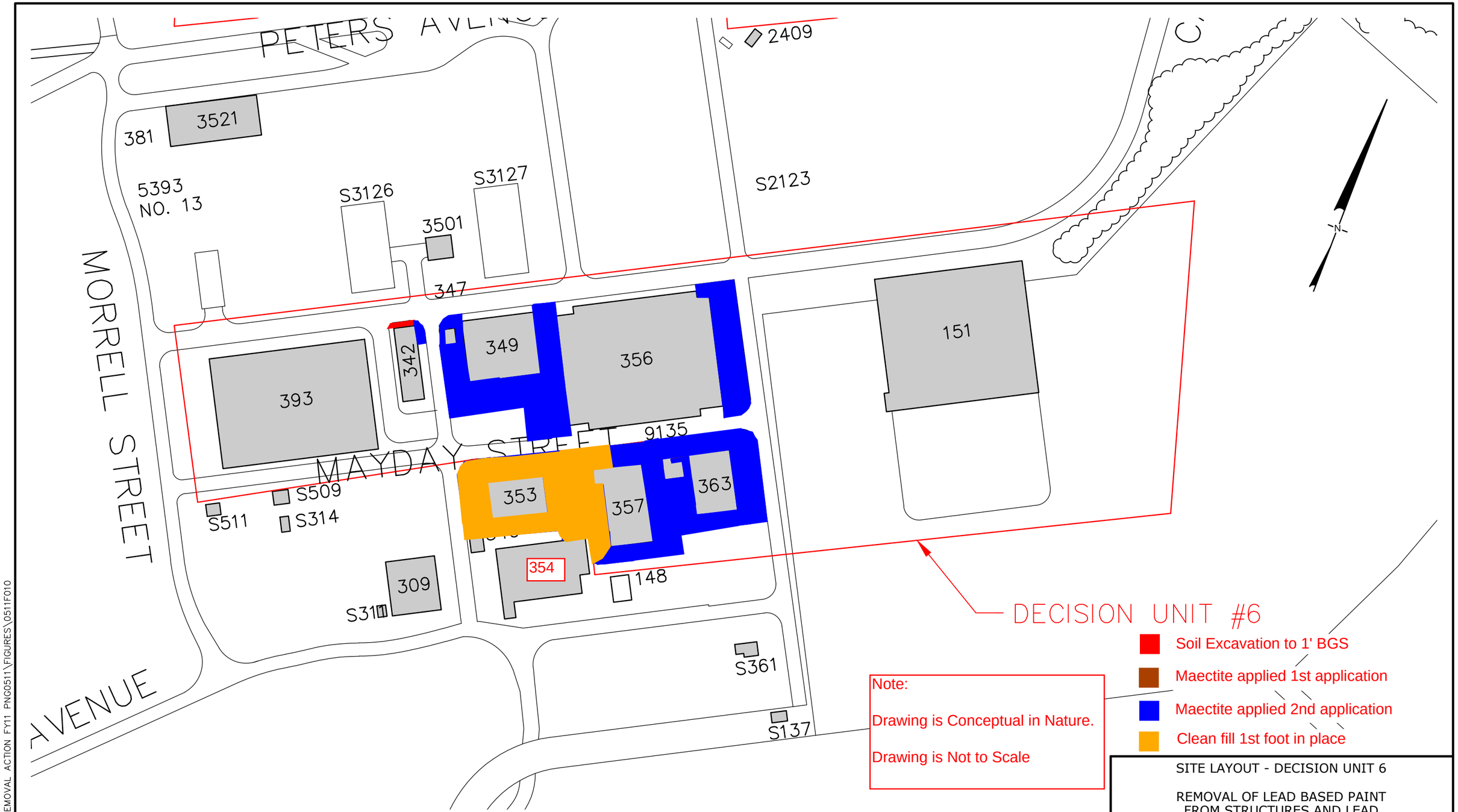
Photo 03: NWDE excavation of clean sand from borrow area between the Fuel Pier and the Cargo Pier.

Photo 04: NWDE excavation of clean sand from borrow area near Fuel Pier.

Photo 05: Clean fill being brought in on the south side of Bldg 353.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6 and the locations of buildings under demolition in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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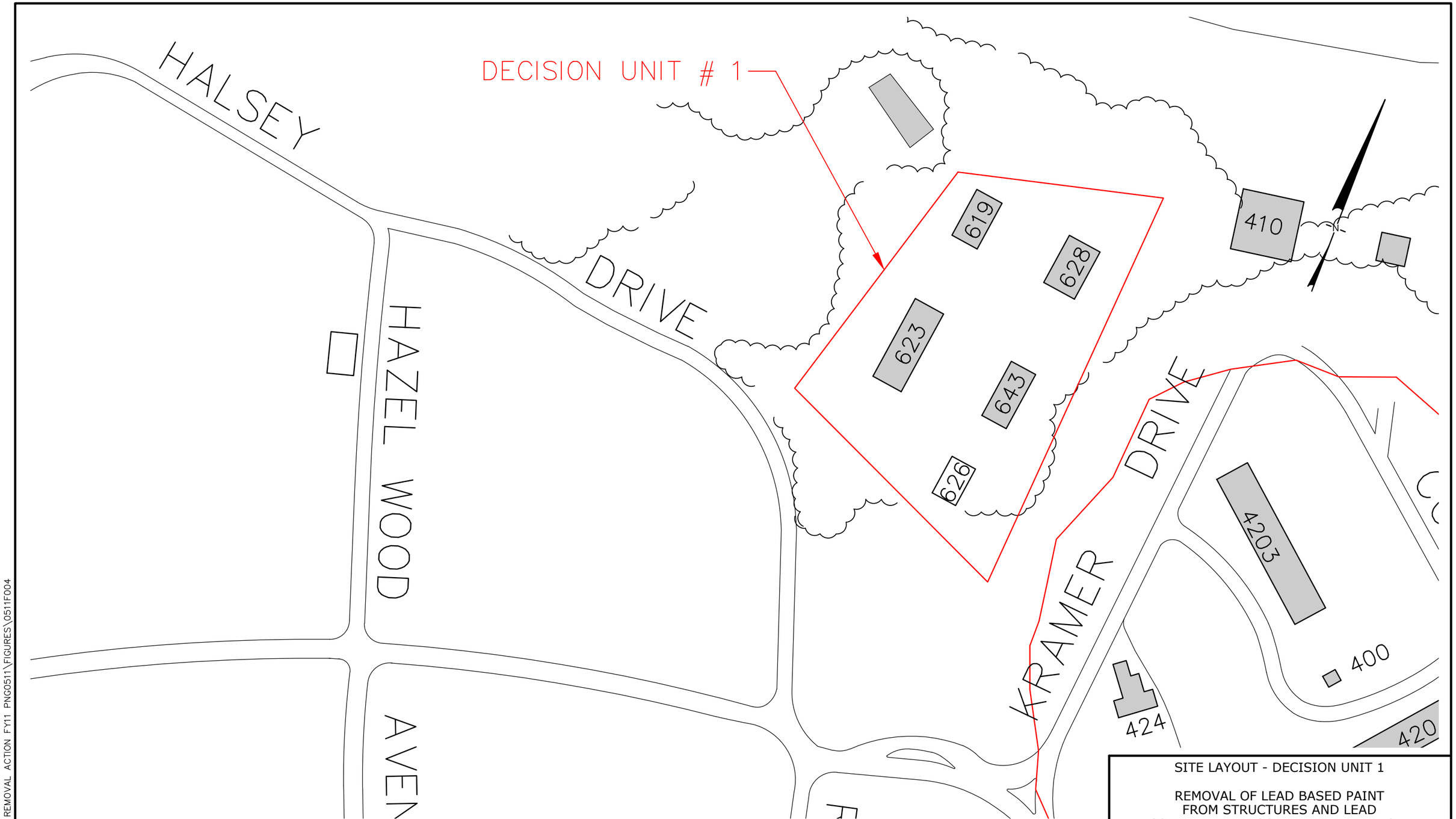

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, July 31, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light breeze, temps mid-80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	183 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 – NWDE demolition crew (A. Philips , C. Nelson, and S. Monear) load out debris from Bldg 628 and demolition activities within DU1 with dust suppression.

NWDE Backfill crew (D. Hard, M.Saiki. J. Ordaz) continue excavation of borrow source and hauling to DU6. J. Ordaz working in DU6 to lay shadecloth and place clean sand.

NWDE Maectite crew (J. Stone, J. Smith) begin 1st application, mixing, and excavating on the south side of Bldg 342.

0830 – C. Tyrrell collects MIS sample from Bldg 342 (MIS sample complete for Bldg 342).

0930 – NWDE Maectite crew finish excavating on the south side of Bldg 342 and move to north side of building to complete 2nd Maectite application and mixing to a 1 foot depth.

NWDE demolition crew continue load out with dust suppression of demo debris from Bldg 628.

NWDE backfill crew haul backfill to DU6, place clean sand on south side of Bldg 357 and lay shadecloth between Bldg 357 and Bldg 363.

1030 – NWDE Maectite crew continue 2nd application of Maectite and mixing by hand to avoid utilities on north side of 342.

NWDE backfill crew continue excavation from borrow source area, hauling of clean sand, and continue laying shadecloth on south side between Bldg 357 and 363.

1100 – C. Tyrrell onsite at site of Bldg 628 for removal of remaining building pad portions. NWDE demolition crew removes building pad for Bldg 628.

1200 – Lunch

1230 – NWDE demolition crew (A. Philips , C. Nelson), C. Tyrrell, and U.S. FWS review final footprint cleaning expectations and protocol in preparation for the transition from demolition to Maectite treatment of soils in DU1.

1300 – NWDE E. White, C. Tyrrell, and U.S. FWS check level and extent of impacted soils at borrow area. It is decided that this will issue will be revisited in greater detail during a period of low tide so as to fully identify and utilize the clean source available from the borrow area.

1400 – NWDE E. White, C. Tyrrell, and U.S. FWS inspect the clean sand placement on the south and east side of Bldg 363 in DU6 to ensure that work plan items are being addressed and that U.S. FWS is satisfied with the work product.

1430 – NWDE demolition crew completes demolition of Bldg 628. Crew continues to clean up demolition building pad footprints and place shadecloth secured with sandbags in DU1.

1500 – Item discovered during final cleaning of building footprint in DU1 is recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A623-1.

1630 – NWDE Maectite crew (J. Stone, and J. Smith) complete 2nd application of Maectite and mixing to a depth of 1 foot on north and east sides of Bldg 342. Area is covered with shadecloth witness layer with a 1 foot overlap and secured with sandbags.

NWDE backfill crew (D. Hard, M.Saiki. J. Ordaz and S. Monear) continue excavation, hauling of clean sand, and placement of shadecloth on W side of Bldg 363.

1648 – NWDE demolition crew decons tracks of excavator in DU1 and moves equipment to outside the boundary of DU1.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
Date	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	36.5	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 85,111 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 61,114 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE sorting of demolition debris from Bldg 628 with dust suppression.

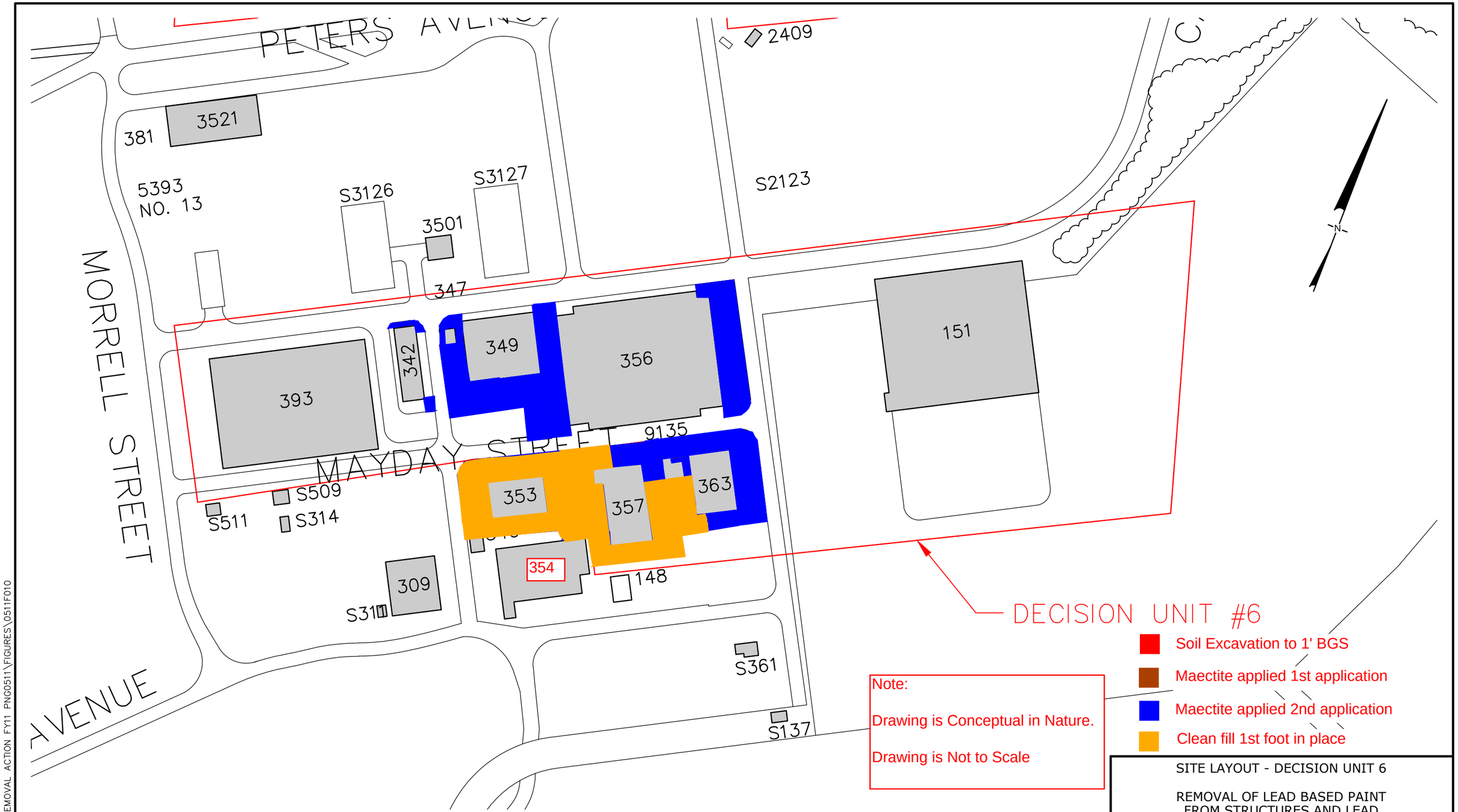
Photo 02: NWDE excavation of clean sand from borrow area.

Photo 03: NWDE demolition of Bldg 628 complete.

Photo 04: NWDE clean fill being hauled and placed in DU6.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6 and the locations of buildings under demolition in DU1.



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SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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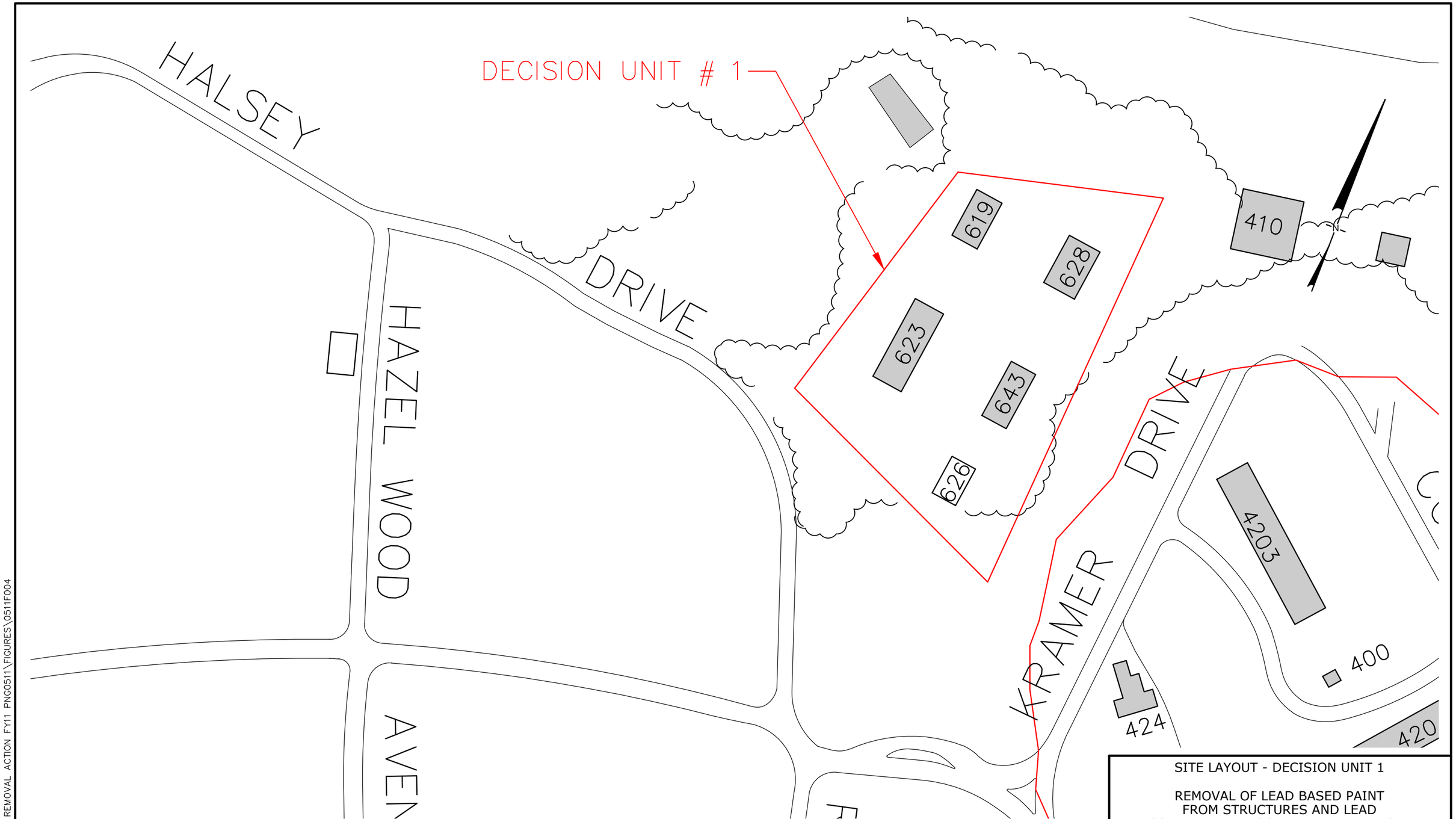

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
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SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, August 1, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, breezy, scattered showers in the afternoon, temps mid-80s, soils saturated during morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		1 hour today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	193 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0800 – NWDE backfill placement crew 1 (J. Ordaz and C. Nelson) lay shadecloth witness layer with 1 foot overlay on adjoining pieces and place 1st clean foot of clean sand backfill on east side of Bldg 363.

NWDE backfill placement crew 2 (J. Stone and J. Smith) place 1st foot of clean sand backfill around Bldg 342 with mini excavator.

NWDE excavation and haul crew (A. Philips, M.Saiki. and S. Monear) continue excavation of borrow source and hauling to DU6.

NWDE D. Hard compacting and smoothing over the treated demolition debris and soils with dozer in the R-2 unit.

0900 – D. Hard replaces A. Philips (excavation and haul crew) on the excavator at the borrow area.

1030 – NWDE backfill placement crew 2 place and grade backfill surrounding Bldg 342.

NWDE excavation and haul crew continues loading and hauling of clean sand backfill from borrow area to DU6 for placement.

NWDE J. Ordaz continues to lay shadecloth with 1 foot overlay on adjoining pieces.

NWDE demolition crew (A. Philips and C. Nelson) return to DU1 for final cleanup of site.

1200 – Lunch

1230 – C. Tyrrell on site at location of Bldg 626 for raking of building pad footprint in DU1.

NWDE demolition crew (A. Philips and C. Nelson) rake building pad footprint from Bldg 626 to remove larger concrete pieces and demolition debris.

1400 – NWDE demolition crew continue hand cleanup of building footprint for Bldg 626.

NWDE backfill placement crew 2 (J. Stone and J. Smith) continue grading backfill on east side of Bldg 342.

NWDE J. Ordaz continues placement of sand bags and shadecloth witness layer on north side of Bldg 357.

NWDE excavation and haul crew (D. Hard, M. Saiki, and S. Monear) continue loading and hauling of clean sand backfill from borrow area to DU6 for placement.

1445 – C. Tyrrell collects 2 aliquots for MEP sample from R-2 unit.

1550 – NWDE demolition crew complete post-demolition cleanup of DU1.

NWDE backfill placement crew 2 move to west side of Bldg 353 for placement and grade around building and to road of 2nd and 3rd foot of backfill.

NWDE excavation and haul crew continue loading and hauling of clean sand backfill from borrow area to DU6 for placement.

A. Philips, C. Nelson, and J. Ordaz place shadecloth witness layer with 1 foot overlay of seams on adjacent pieces on east side of Bldg 356.

Placement of 1st foot of clean sand backfill complete in southern half of DU6.

1615 – NWDE A. Philips, C. Nelson, and J. Ordaz cover the western cell in the R-2 unit with the daily cover.

NWDE backfill placement crew 2 continue to grade backfill on west side of Bldg 353.

NWDE excavation and hauling crew continue loading and hauling of clean sand backfill from borrow area to DU6 for placement.

1530 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
Date	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	36.5	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772
08/01/12	0	0	5147	0	4873	1540	4312

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Demolition Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 85,111 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 61,114 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE loading and hauling clean sand from borrow area.

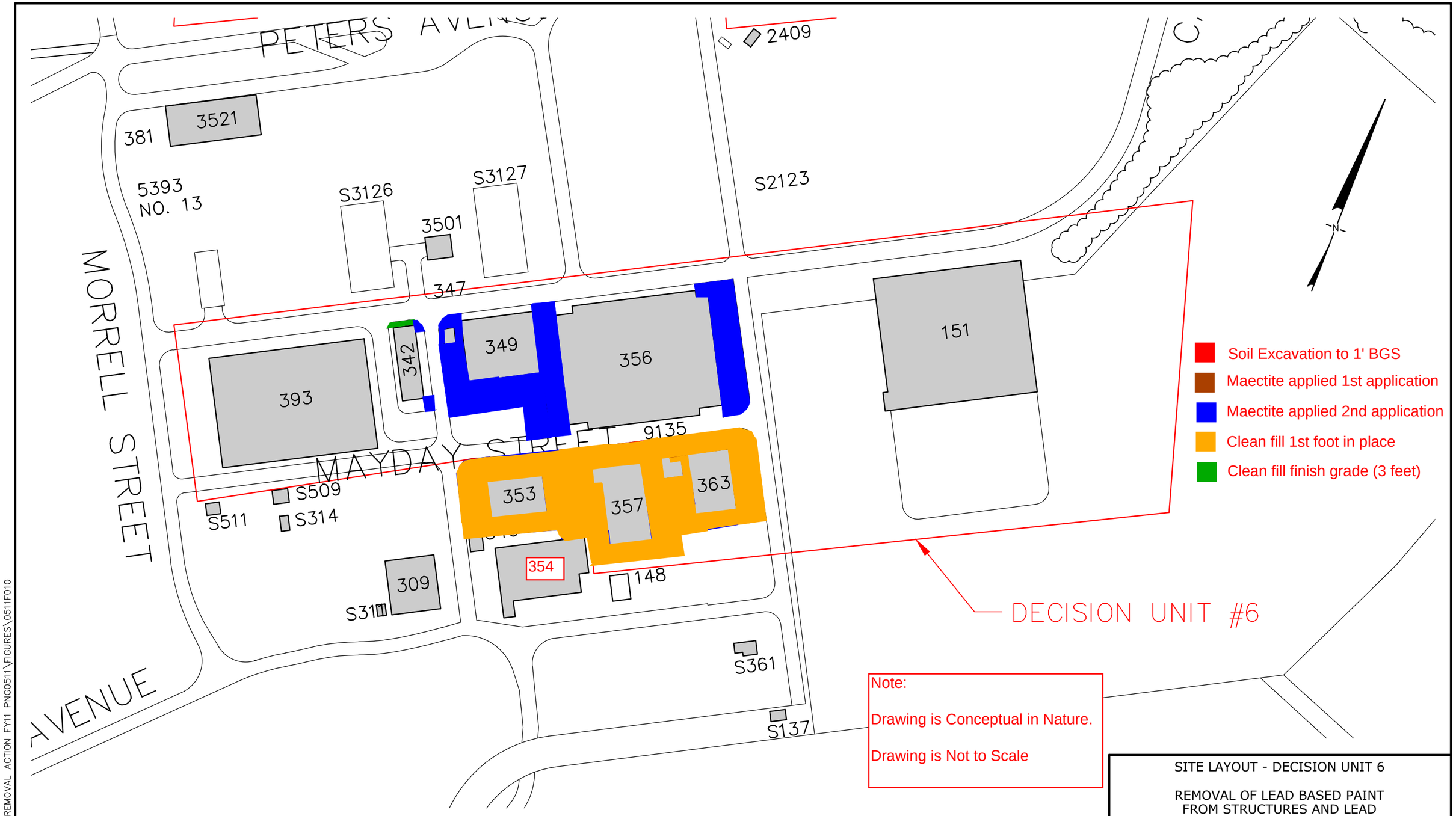
Photo 02: NWDE final raking of footprint for Bldg 626.

Photo 03: Backfill on north side of Bldg 342.

Photo 04: NWDE grading clean fill on west side of Bldg 353.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6 and the locations of buildings under demolition in DU1.



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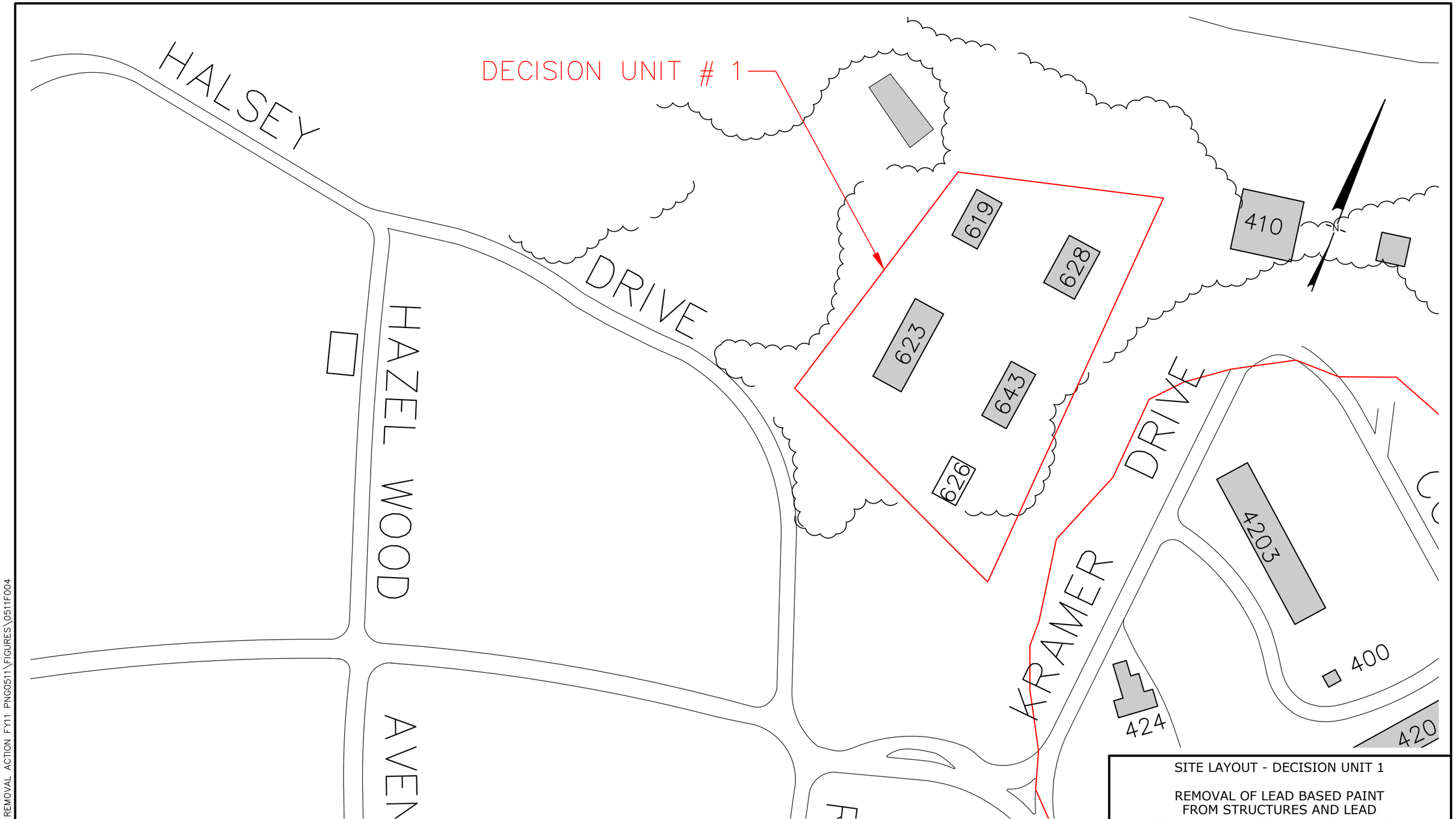

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SEPTEMBER 2011

Figure:
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Daily Field Report

Date: Thursday, August 2, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, breezy, temps mid-80s.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	223 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0800 – NWDE backfill placement crew 1 (J. Ordaz, and C. Nelson) lay shadecloth witness layer with 1 foot overlay on adjoining pieces on east side of Bldg 356.

NWDE backfill placement crew 2 (J. Stone and J. Smith) grading clean sand backfill on east side of Bldg 353 with mini excavator.

NWDE excavation and haul crew (D. Hard, M.Saiki. and S. Monear) continue excavation of borrow source and hauling to DU6.

NWDE A. Philips placing and grading clean sand backfill using tracked skid steer.

1030 – NWDE excavation and haul crew continues loading and hauling of clean sand backfill from borrow area to south side of DU6 for placement.

NWDE backfill placement crew 2 place and grade backfill at approximate 45º angle to building footprint on west side of Bldg 353.

NWDE J. Ordaz and C. Nelson continue to lay shadecloth with 1 foot overlay on adjoining pieces.

NWDE A. Philips placing and grading clean sand backfill using tracked skid steer in southern portion of DU6.

1200 – Lunch

1230 – NWDE excavation and haul crew (D. Hard, M.Saiki. and S. Monear) continue excavation of borrow source and hauling to DU6.

1320 – NWDE backfill placement crew 2 (J. Stone and J. Smith) grading clean sand backfill on north side of Bldg 353 with mini excavator.

NWDE A. Philips continues clean sand backfill placement between Bldg 353 and Bldg 357 with tracked skid steer.

NWDE backfill placement crew 1 (J. Ordaz, and C. Nelson) lay shadecloth witness layer with 1 foot overlay on adjoining pieces on south side of Bldg 349.

1630 - NWDE backfill placement crew 1 continue to lay shadecloth witness layer with 1 foot overlay on adjoining pieces on west side of Bldg 349. Shadecloth witness layer in place on south and east sides of Bldg 349.

1648 – NWDE backfill placement crew 2 (J. Stone and J. Smith) continue grading backfill on east side of Bldg 353. A. Philips continues placement of clean sand backfill on east side of Bldg 353.

NWDE excavation and hauling crew continue loading and hauling of clean sand backfill from borrow area to southern portion of DU6 for placement.

1540 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today (cyd)	Cumulative Total (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	37	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772
08/01/12	0	0	5147	0	4873	1540	4312
08/02/12	0	0	5147	0	4873	1320	5632

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 85,111 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 61,114 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: NWDE hauling and placement of clean sand fill from borrow area to DU6.

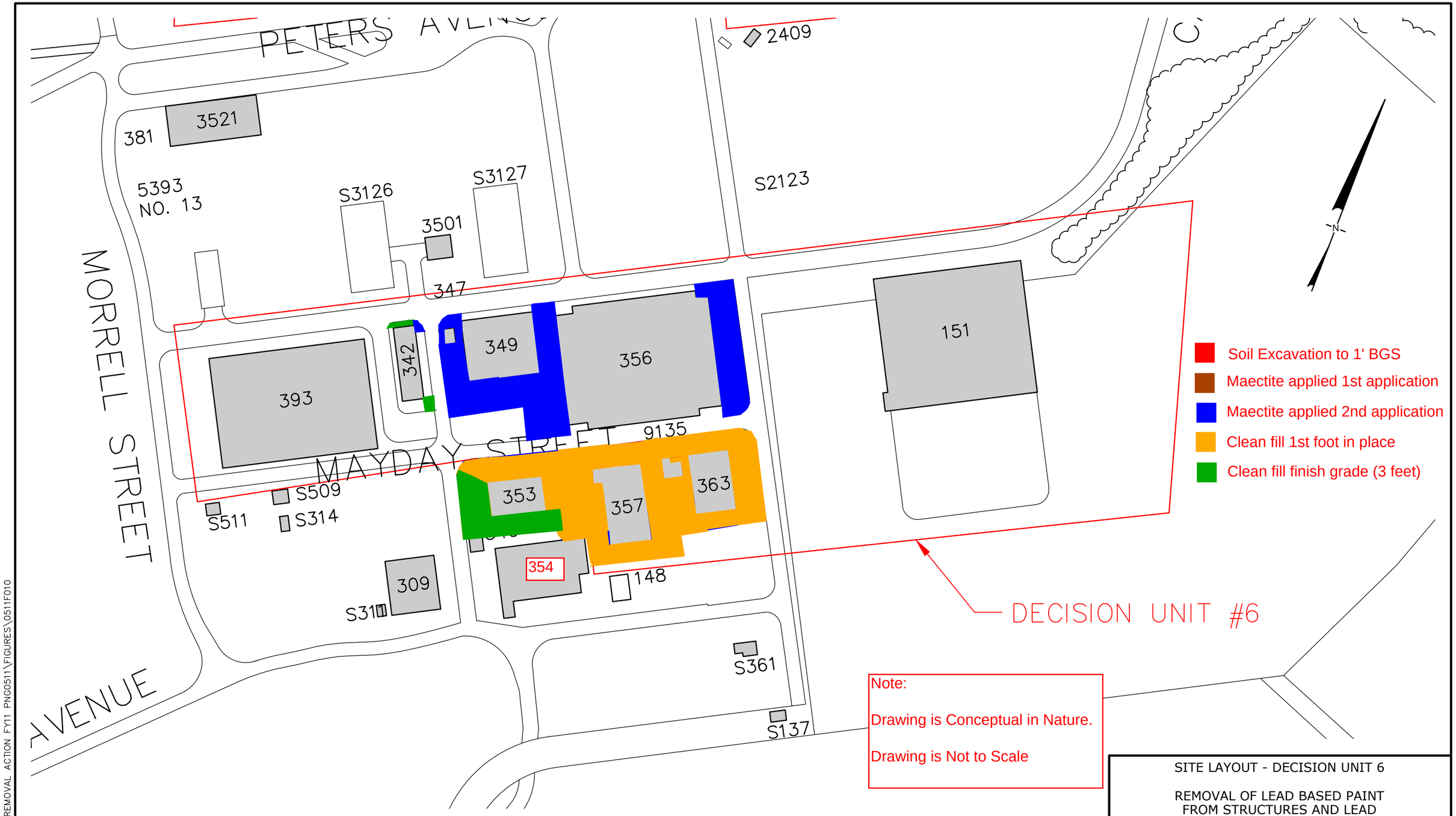
Photo 02: NWDE grading of backfill between Bldg 353 and Bldg 357.

Photo 03: Finished grade on west side of Bldg 353.

Photo 04: NWDE grading clean fill on north side of Bldg 353.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, August 3, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Cloudy, breezy, scattered showers, temps mid-80s, rain night before, standing water on ground.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	153 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0715 – NWDE crew (A. Philips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) to R-2 to add sandbags to hold down daily cover in preparation for weather system anticipated this weekend.

0740 – NWDE A. Philips places 1st foot of clean sand backfill placement Bldg 356 and Bldg 349 with tracked skid steer.

NWDE excavation and haul crew (D. Hard, M.Saiki. and S. Monear) continue excavation of clean sand backfill borrow source area and hauling to DU6 using 1 excavator and 2 off road trucks.

NWDE backfill placement crew 1 (J. Ordaz, and C. Nelson) lay shadecloth witness layer with 1 foot overlay on adjoining pieces, removing the plastic from and dumping out the sandbags prior to sand placement on west side of Bldg 349 and east side on Bldg 356.

NWDE backfill placement crew 2 (J. Stone and J. Smith) grading clean sand backfill on east side of Bldg 353 with mini excavator.

0945 – NWDE excavation and haul crew continue excavation of borrow source and hauling to DU6.

1020 – NWDE backfill placement crew 1 lay shadecloth witness layer with 1 foot overlay on adjoining pieces, removing the plastic from and dumping out the sandbags prior to sand placement on west side of Bldg 349, around the utilities and small shed on west side of building.

NWDE A. Philips spreading out, placing, and grading clean sand backfill using tracked skid steer on west and south sides of Bldg 349.

NWDE excavation and haul crew continue excavation of borrow source and hauling to northern portion of DU6 on east side of 353.

NWDE backfill placement crew 2 continues finish grading clean sand backfill on north side of Bldg 353 around power box and utilities with mini excavator.

1100 – NWDE A. Philips continues spreading and placement of clean sand backfill on east side of Bldg 356.

1145 - NWDE backfill placement crew 2 grading 2nd and 3rd foot of clean sand backfill between Bldg 353 and Bldg 357 with mini excavator.

NWDE backfill placement crew 1 collects project fencing and cleanup active work areas in DU6.

NWDE A. Philips spreads out and places 1st foot of clean sand backfill on east side of Bldg 356.

DU6 is approximately 85% complete with 1st foot of clean backfill in place.

1200 – Lunch

1230 - NWDE backfill placement crew 1 (J. Ordaz, and C. Nelson) continue site cleanup in DU6.

NWDE backfill placement crew 2 (J. Stone and J. Smith) continue grading 2nd and 3rd foot of clean sand backfill between Bldg 353 and Bldg 357 on southern portion of DU6 with mini excavator.

NWDE A. Philips continues 1st foot of clean sand backfill placement on east side of Bldg 356 with tracked skid steer.

NWDE excavation and haul crew (D. Hard, M.Saiki. and S. Monear) continue excavation of borrow source and hauling to DU6.

1450 – NWDE excavation and haul crew continue excavation of borrow source and hauling to DU6.

East side of Bldg 356 1st foot of clean sand backfill in place.

NWDE crew (A. Philips, J. Ordaz, J. Smith, and C. Nelson) heads out again to R-2 unit to secure daily cover with additional sandbags due to strong winds.

NWDE J. Stone continues finish grading of 3rd foot of clean sand backfill between Bldg 353 and Bldg 357.

1620 – NWDE backfill placement crew (A. Philips, J. Stone, J. Smith, and C. Nelson) continue finish grading of 3rd foot of backfill between Bldg 353 and Bldg 357.

NWDE J. Ordaz continues site cleanup in DU6.

NWDE excavation and haul crew continue excavation of clean sand backfill borrow source and hauling to DU6.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today in DU6 (cyd)	Cumulative Total in DU6 (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	37	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772
08/01/12	0	0	5147	0	4873	1540	4312
08/02/12	0	0	5147	0	4873	1320	5632
08/03/12	0	0	5147	0	4873	1958	7590

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Additional Comments:

Maectite applied to date is estimated to cover approximately 85,111 square feet of 1 foot lift (excavation depth in DU6) for the 1st application. Covering approximately 61,114 square feet of the 2nd application. Estimates are based on the number of gallons of Maectite applied.

Photographs:

Photo 01: R-2 unit daily cover secured with sandbags.

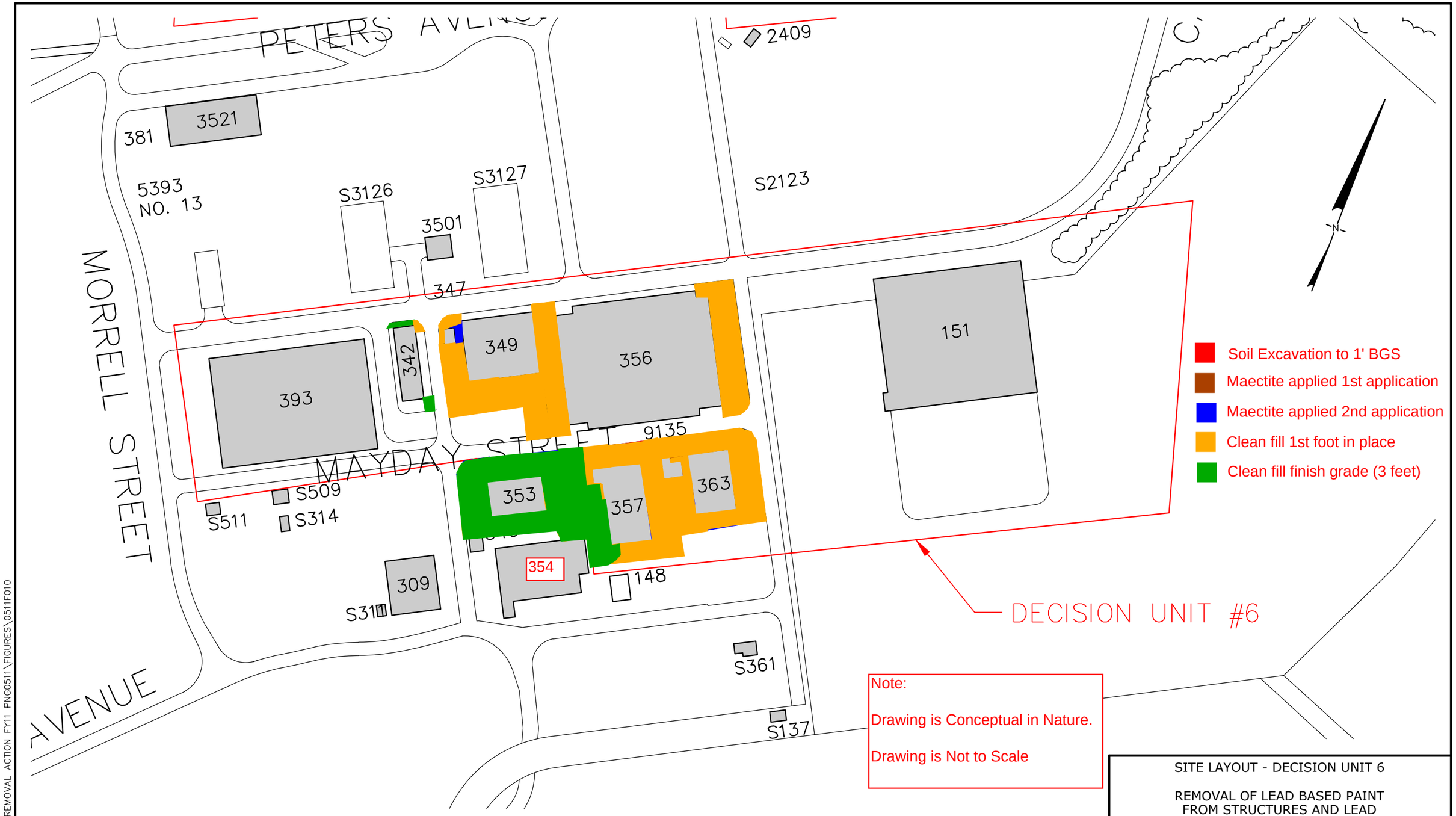
Photo 02: NWDE hauling and placing clean sand backfill to northern portion of DU6.

Photo 03: NWDE grades 2nd and 3rd foot of clean sand backfill on north side of Bldg 353.

Photo 04: NWDE excavation of clean sand backfill borrow area.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 4, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Cloudy, breezy, scattered showers in morning, sunny in afternoon, temps mid-80s, rain night before.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	130 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE excavation and haul crew (D. Hard, M.Saiki. and S. Monear) continue excavation of clean sand backfill borrow source area and hauling to DU6 using 1 excavator and 2 off road trucks.

0800 – NWDE E. White and C. Tyrrell call D. Leibelt –in reviewing current totals and available sand from the borrow area, it is decided to stop excavating and hauling to DU6. Crews will work to grade the clean sand backfill that is already there and work crews will start work in DU1.

NWDE backfill placement crew 1 (A. Philips, J. Ordaz, and C. Nelson) continue finish grading of 3rd foot of backfill between Bldg 353 and Bldg 357.

NWDE backfill placement crew 2 (J. Stone and J. Smith) grading clean sand backfill on south side of Bldg 353 and Bldg 357 with mini excavator.

0830 – NWDE A. Philips continues grading final backfill elevation using tracked skid steer on south side of 363.

NWDE 2 off road trucks are parked just east of DU6.

NWDE crew (M. Saiki, S. Monear, and J. Ordaz) pull back shadecloth at the marine barracks (DU2) at the request of DBSI.

NWDE D. Hard on excavator smoothing out clean sand backfill in borrow area in preparation for work moving to DU1.

U.S. FWS is notified of work schedule change.

0900 – NWDE crew (M. Saiki, S. Monear, and J. Ordaz) move to DU1 to mark utilities and lay out area grids on north side of DU1 for Maectite application scheduled to begin on Monday.

NWDE backfill placement crew 2 (J. Stone, J. Smith, and C. Nelson) grading clean sand backfill on west side of Bldg 357 with mini excavator.

NWDE A. Philips continues grading final backfill elevation using tracked skid steer on south side of 363.

1030 – Excavator moved out of borrow area, rinsed to remove any sea water residue and parked near conex.

1100 – NWDE backfill placement crew 2 (D. Hard, J. Stone, J. Smith, and C. Nelson) grading clean sand backfill on southern side of Bldg 363 and south and west side Bldg 357 with mini excavator.

NWDE crew (M. Saiki, S. Monear, and J. Ordaz) continue to mark utilities, pull back shadecloth, and lay out area grids on north side of DU1 for Maectite application.

1200 – Lunch

1230 – NWDE backfill placement crew (D. Hard, J. Stone, J. Smith, and C. Nelson) grading clean sand backfill on southern side of Bldg 357 with mini excavator.

NWDE A. Philips grading and spreading clean sand backfill between Bldg 357 and Bldg 363.

NWDE crew (M. Saiki, S. Monear, and J. Ordaz) continue to mark utilities, pull back shadecloth, and lay out area grids on north side of DU1 for Maectite application.

1315 – NWDE E. White and C. Tyrrell measure dimensions of sand remaining in borrow source area between the fuel pier and the cargo pier.

1415 - NWDE backfill placement crew (D. Hard, J. Stone, J. Smith, and C. Nelson) grading clean sand backfill between Bldg 363 and Bldg 357 with mini excavator.

NWDE A. Philips continues grading on east side of Bldg 363.

NWDE crew (M. Saiki, S. Monear, and J. Ordaz) continue to mark utilities, pull back shadecloth, and lay out area grids on north side of DU1 for Maectite application.

1620 – North and west sides of former location of Bldg 619 and north side of former location of Bldg 628 utilities have been marked and have been gridded for Maectite application.

1650 – NWDE (M. Saiki, S. Monear, and J. Ordaz) move equipment to under the plane hangar by the conex in preparation for anticipated weather system.

DU2 shadecloth and sandbags back in place.

R-2 unit inspected to make sure that the sand bags were holding down the daily cover.

NWDE remaining crews move the rest of the equipment under the plane hangar by the conex in preparation for anticipated weather system.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today in DU6 (cyd)	Cumulative Total in DU6 (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	37	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772
08/01/12	0	0	5147	0	4873	1540	4312
08/02/12	0	0	5147	0	4873	1320	5632
08/03/12	0	0	5147	0	4873	1958	7590
08/04/12	0	0	5147	0	4873	66	7656

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE grading clean sand backfill on south side of Bldg 357.

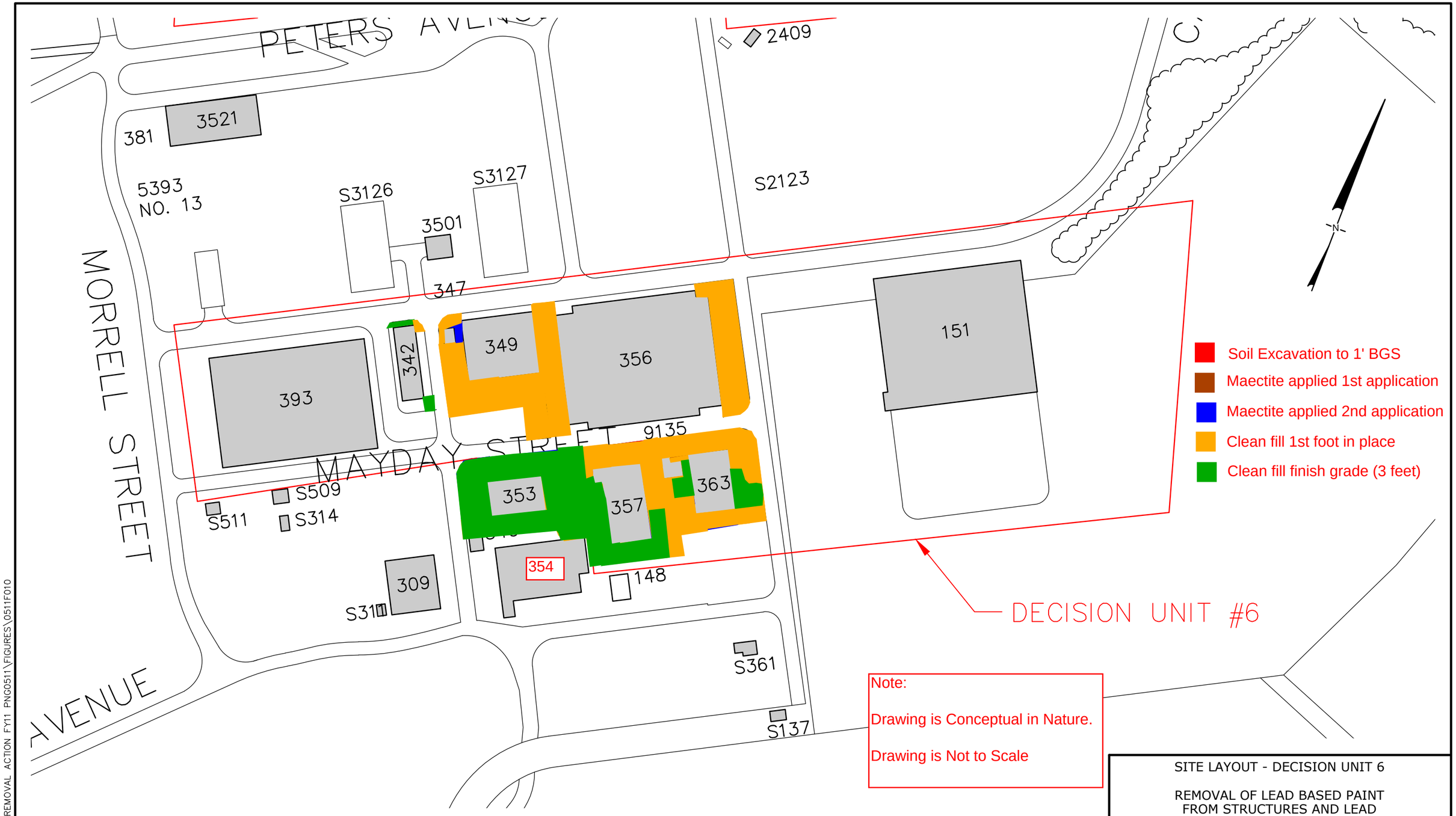
Photo 02: NWDE grading clean sand backfill between Bldg 357 and Bldg 363.

Photo 03: NWDE removing shadecloth in northern portion DU1.

Photo 04: NWDE marking utilities and setting up grid for 1st Maectite application to soils in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill in DU6 and building and demolished building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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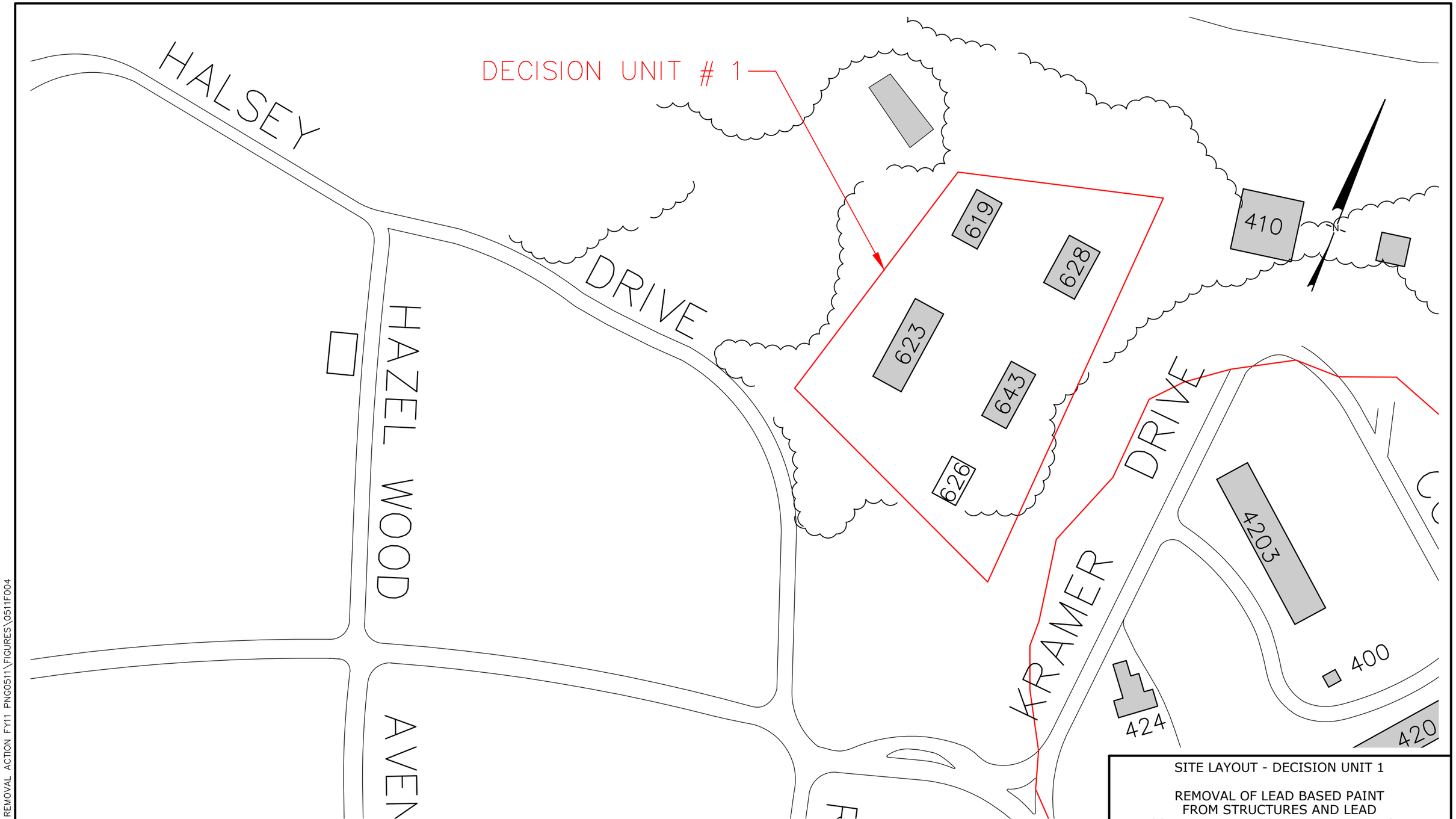

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

SEPTEMBER 2011

Figure:
2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, August 6, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: High winds estimated in excess of 35 mph and heavy rain downpours – **work cancelled due to inclement weather conditions.**

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	1
Everett White	NWDE Super	1
Alan Philips	NWDE Operator	1
Dave Hard	NWDE Operator	1
Mike Saiki	NWDE Operator	1
Jose Ordaz	NWDE Operator	1
Jevon Stone	NWDE Operator	1
Sean Monear	NWDE Operator	1
Joel Smith	NWDE Laborer	1
Christian Nelson	NWDE Laborer	1

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0640 – NWDE crew meets in lobby and is notified by E. White that work today will be postponed due to weather. Crew is on standby until further notice. Weather is evaluated constantly throughout the day for changing and more favorable conditions; however aside from securing the R-2 cover, crews are unable to return to work due to safety concerns.

1000 – NWDE E. White and C. Tyrrell attend weekly project conference call with U.S. FWS PM and others.

1050 – NWDE crew work to secure the R-2 daily cover during the storm and high winds with the transport and placement of 75 additional sandbags. The R-2 unit cover is monitored throughout the remainder of the day to ensure proper coverage and that the sandbags are enough weight to counteract the high winds.

1150 – Lunch

1500 – NWDE E. White and C. Tyrrell work with U.S. FWS PM to identify and quantify possible additional borrow source areas in the North Beach area.

1600 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals			Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)						
	Soils (DU6)	Demolition Debris (DU1)	Cumulative Total (g)	Excavated and Hauled to R-2 Unit Today(cyd)	Excavated and Hauled to R-2 Unit Cumulative Total (cyd)	Excavated and Placed Today in DU6 (cyd)	Cumulative Total in DU6 (cyd)
07/21/12	0	9	3766	572	4048	0	0
07/22/12	0	0	3766	0	4048	0	0
07/23/12	0	28	3794	385	4433	0	0
07/24/12	21	0	3815	220	4653	0	0
07/25/12	264	8	4087	0	4653	0	0
07/26/12	532	10	4629	0	4653	0	0
07/27/12	352	8	4989	0	4653	374	374
07/28/12	37	18	5044	66	4719	0	374
07/30/12	63	0	5107	132	4851	792	1166
07/31/12	40	0	5147	22	4873	1606	2772
08/01/12	0	0	5147	0	4873	1540	4312
08/02/12	0	0	5147	0	4873	1320	5632
08/03/12	0	0	5147	0	4873	1958	7590
08/04/12	0	0	5147	0	4873	66	7656
08/06/12	0	0	5147	0	4873	0	7656

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, August 7, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, temps mid-80s, rain night before, ground saturated in morning hours.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	106 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE crew fuels up equipment, greasing equipment, and preforming routine maintenance checks on equipment at the conex.

NWDE E. White inspects R-2 unit, daily cover appears to be holding with sandbags.

0725 – NWDE S. Monear to Bldg 342 to finish grading around building footprint.

0830 – NWDE S. Monear, J. Stone, finish grading around Bldg 342 using mini-excavator and hand tools.

NWDE A. Phillips grading north side of Bldg 357 with tracked skid steer in DU6.

0900 – NWDE Maectite crew (D. Hard, M. Saiki, C. Nelson, J. Smith, and J. Ordaz) begin 1st Maectite application and mixing on northwest corner of DU1. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite to a 1 foot depth with excavator and wetting with water follows Maectite application.

1030 – NWDE backfill placement crew 1 (A. Philips and J. Stone) continue finish grading clean sand backfill between Bldg 349 and Bldg 356 and north sides of Bldg 353, Bldg 357, and Bldg 363 using mini-excavator and tracked skid steer.

1115 - NWDE backfill placement crew 1 (J. Stone and S. Monear) finish grading east side of Bldg 357 using hand tools.

NWDE A. Philips continues spreading and finish grading of 3rd foot of clean sand backfill on north side of Bldg 363 using tracked skid steer.

NWDE Maectite crew continues 1st Maectite application and mixing to a depth of 1 foot on north portion of DU1. M. Saiki and J. Smith transfer a new tote of Maectite on to back of NWDE Maectite truck.

1200 – Lunch

1230 – NWDE Maectite crew (D. Hard, C. Nelson, J. Ordaz, M. Saiki, and J. Smith) continue grid layout and 1st Maectite application and mixing to a depth of 1 foot on north portion of DU1.

1445 – C. Tyrrell inspection of R-2 unit, daily cover appears to be holding with sandbags.

1500 – NWDE Maectite crew (D. Hard, M. Saiki, J. Smith) continue 1st Maectite application and raking on the north side of the Bldg 628 footprint.

NWDE S. Monear, A. Philips, J. Ordaz, and C. Nelson work at the Marine Barracks buildings to arrange and secure shadecloth after DBSI tree removal.

1520 – NWDE E. White, C. Tyrrell and U.S. FWS PM, inspection of R-2 unit. No standing water on daily cover, sandbags appear to be holding cover in place with strong winds, standing water in bottom of cells due to high precipitation associated with storms.

1549 – NWDE E. White, C. Tyrrell and U.S. FWS PM investigate potential alternate borrow source area west of cable buildings. Area has been cleared of trees and has no record of development, is approximately 200 feet from east to west, and 500 feet north to south.

1600 – NWDE Maectite crew (D. Hard, M. Saiki, and J. Smith) continue 1st Maectite application and mixing to a depth of 1 foot on north side of Bldg 628 footprint.

NWDE A. Philips, J. Ordaz, S. Monear, and C. Nelson continue placing and securing shadecloth with sandbags around Marine Barracks.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	0	-	9	3766	572	4048	0	0
07/22/12	0	-	0	3766	0	4048	0	0
07/23/12	0	-	28	3794	385	4433	0	0
07/24/12	21	-	0	3815	220	4653	0	0
07/25/12	264	-	8	4087	0	4653	0	0
07/26/12	532	-	10	4629	0	4653	0	0
07/27/12	352	-	8	4989	0	4653	374	374
07/28/12	37	-	18	5044	66	4719	0	374
07/30/12	63	-	0	5107	132	4851	792	1166
07/31/12	40	-	0	5147	22	4873	1606	2772
08/01/12	0	-	0	5147	0	4873	1540	4312
08/02/12	0	-	0	5147	0	4873	1320	5632
08/03/12	0	-	0	5147	0	4873	1958	7590
08/04/12	0	-	0	5147	0	4873	66	7656
08/06/12	0	-	0	5147	0	4873	0	7656
08/07/12	0	394	0	5541	0	4873	0	7656

Notes:

1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0

Notes:

Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

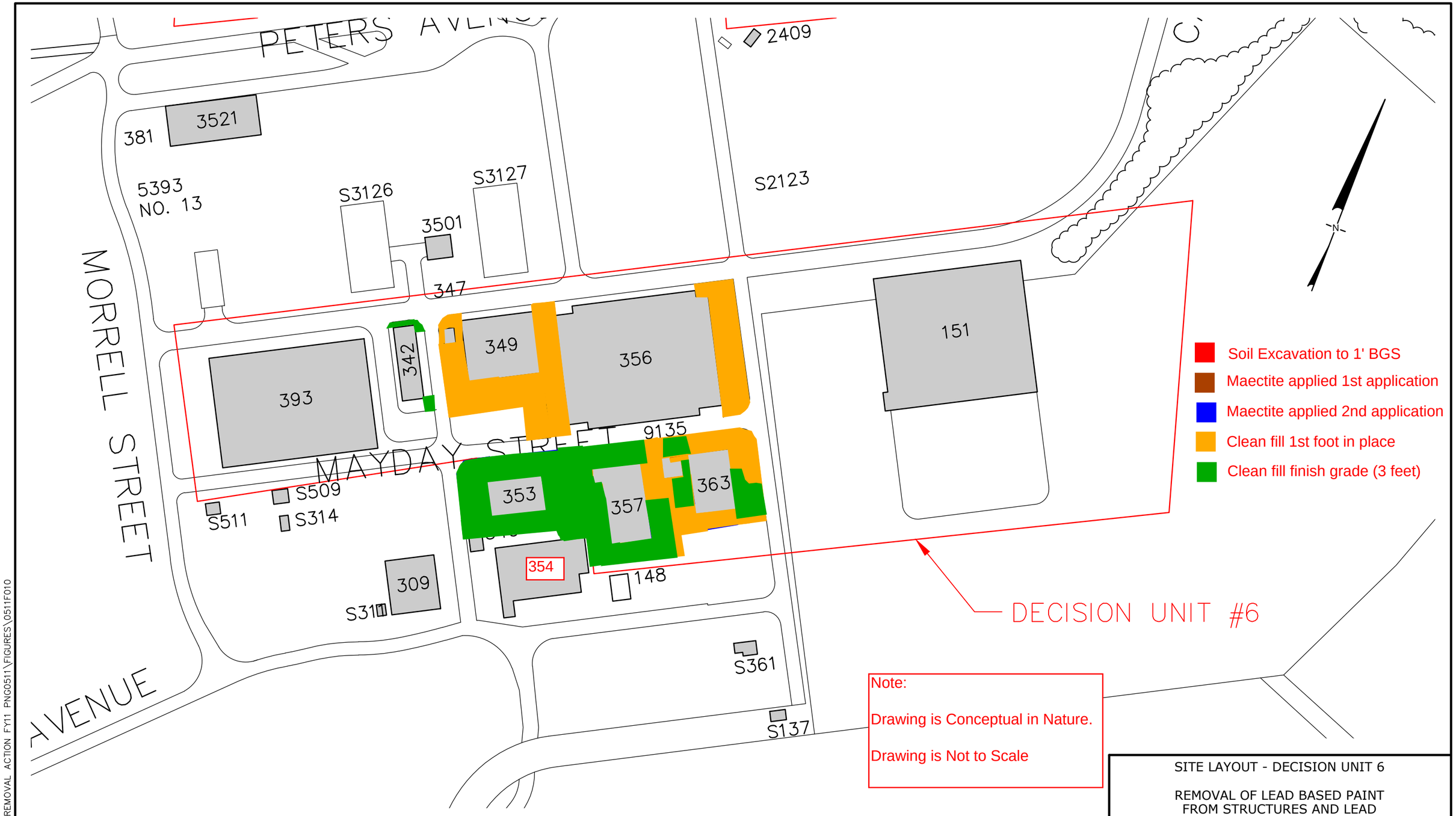
Photo 01: NWDE grading clean sand backfill on north side of Bldg 342.

Photo 02: NWDE preparing for 1st Maectite application in DU1 and marking utilities.

Photo 03: NWDE mixing Maectite to 1 foot depth with excavator DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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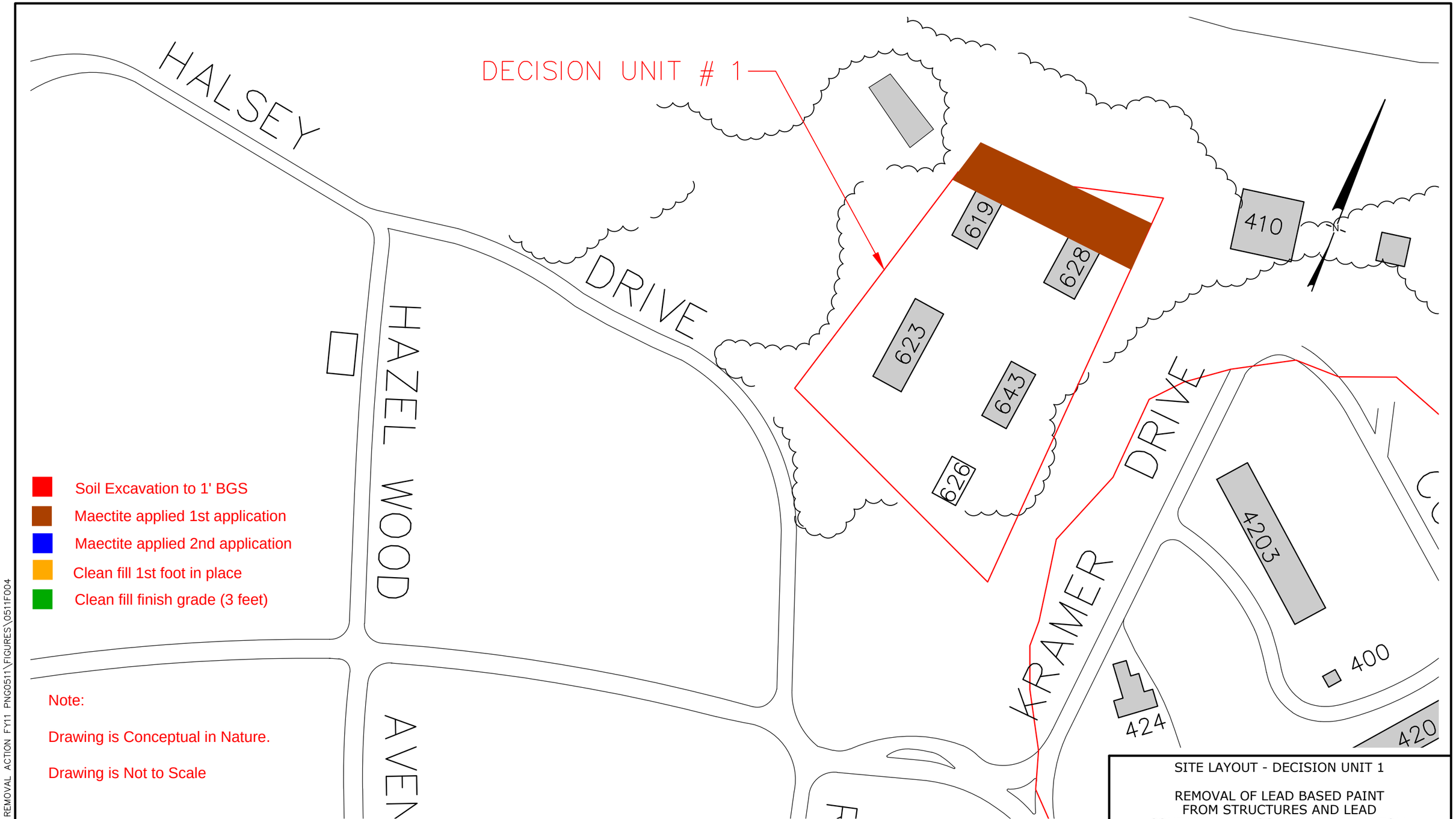

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, August 8, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Cloudy, windy, temps low to mid-80s, rainstorms, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		2 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE Maectite crew (D. Hard, M. Saiki, J. Smith, and C. Nelson) begin 1st Maectite application and mixing on north portion of DU1. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite to a 1 foot depth with excavator and wetting with water follows Maectite application.

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NWDE A. Philips, J. Stone, S. Monear and J. Ordaz arranging and securing shadecloth at the Marine Barracks buildings.

NWDE E. White inspects R-2 unit, daily cover appears to be holding with sandbags.

0915 – NWDE Maectite crew (A. Philips, M. Saiki, J. Stone, S. Monear, J. Ordaz, J. Smith, and C. Nelson) continue pulling back shadecloth, laying out grid, and 1st Maectite application and mixing on northern portion of DU1.

NWDE D. Hard moves Dozer from R-2 unit over to potential alternate borrow area to clear transects for sampling west of DU1.

1000 – NWDE receives permission from U.S. FWS personnel to clear potential alternate borrow area of vegetation in limited N-S transects for final approval in designated use area.

Clearing of vegetation begins with D. Hard driving dozer and J. Stone, S. Monear, J. Ordaz walking dozer through area clearing birds in front of path. E. White and C, Tyrrell on site to direct vegetation clearing efforts.

1050 - NWDE Maectite crew (A. Philips, M. Saiki, J. Smith, and C. Nelson) continue pulling back shadecloth, laying out grid, and 1st Maectite application and mixing on northern portion of DU1.

1130 – NWDE J. Stone moves mini excavator to potential alternate borrow source area.

1200 – Lunch

1230 – NWDE Maectite crew (A. Philips, M. Saiki, J. Smith, and C. Nelson) continue grid layout and 1st Maectite application and mixing to a depth of 1 foot in north portion of DU1.

NWDE Excavates (D. Hard, J. Stone, S. Monear, J. Ordaz) test pits to examine quality of sand, depth to groundwater (3.5 feet below ground surface in southern portion), and for examination by U.S. FWS archeologist in potential source area.

1300 – Items of potential historic significance recovered by A. Philips in DU1. The items are recorded as A619-2, locations marked, and transported to US FWS office. Details are recorded in a separate report.

1400 – NWDE Maectite crew continues 1st Maectite application and raking on the west side of the Bldg 619 footprint. D. Hard, J. Stone, and J. Ordaz assist in pulling back shadecloth.

NWDE E. White and S. Monear work on off road truck at the conex.

1500 – NWDE Maectite crew continues 1st Maectite application and raking on the east side of the Bldg 628 footprint.

1515 – NWDE Maectite crew uncovers what appears to be a heating underground storage tank on the southwest corner of Bldg 628 footprint during mixing process. Tank appears intact (estimated 220gal) with no visual sign of soil contamination and approximately half full of liquid; however lines have been pulled from tank during the Maectite mixing process. U.S. FWS PM notified.

1530 – U.S. FWS PM authorizes clearing of remainder of transects for sampling in potential alternate borrow source area and specifies area northern boundaries.

1600 – NWDE (D. Hard driving dozer and J. Stone, S. Monear, J. Ordaz) continues clearing vegetation in N-S transects with dozer and pedestrian escort. E. White and C, Tyrrell on site to direct vegetation clearing efforts.

1715 – Transects in potential alternate borrow source area complete and average approximately 408 feet in length from southern boundary to tree line on northern boundary.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0
08/08/12	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

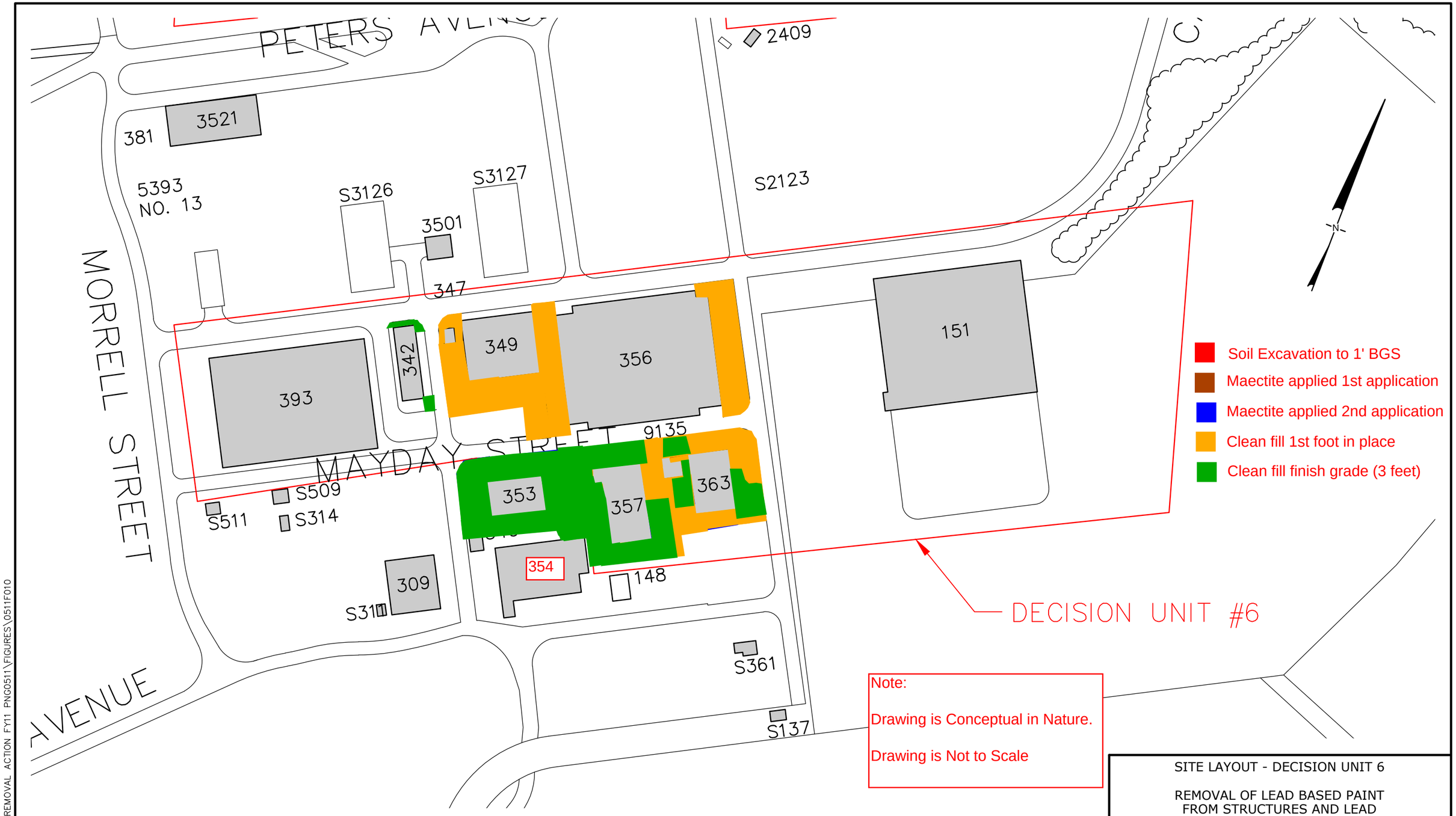
Photo 01: NWDE 1st Maectite application and mixing between footprints of Bldg 619 and Bldg 628.

Photo 02: NWDE 1st Maectite application and mixing on west side of Bldg 619 footprint in DU1.

Photo 03: Tank encountered during Maectite mixing process on the southwest corner of Bldg 628 footprint.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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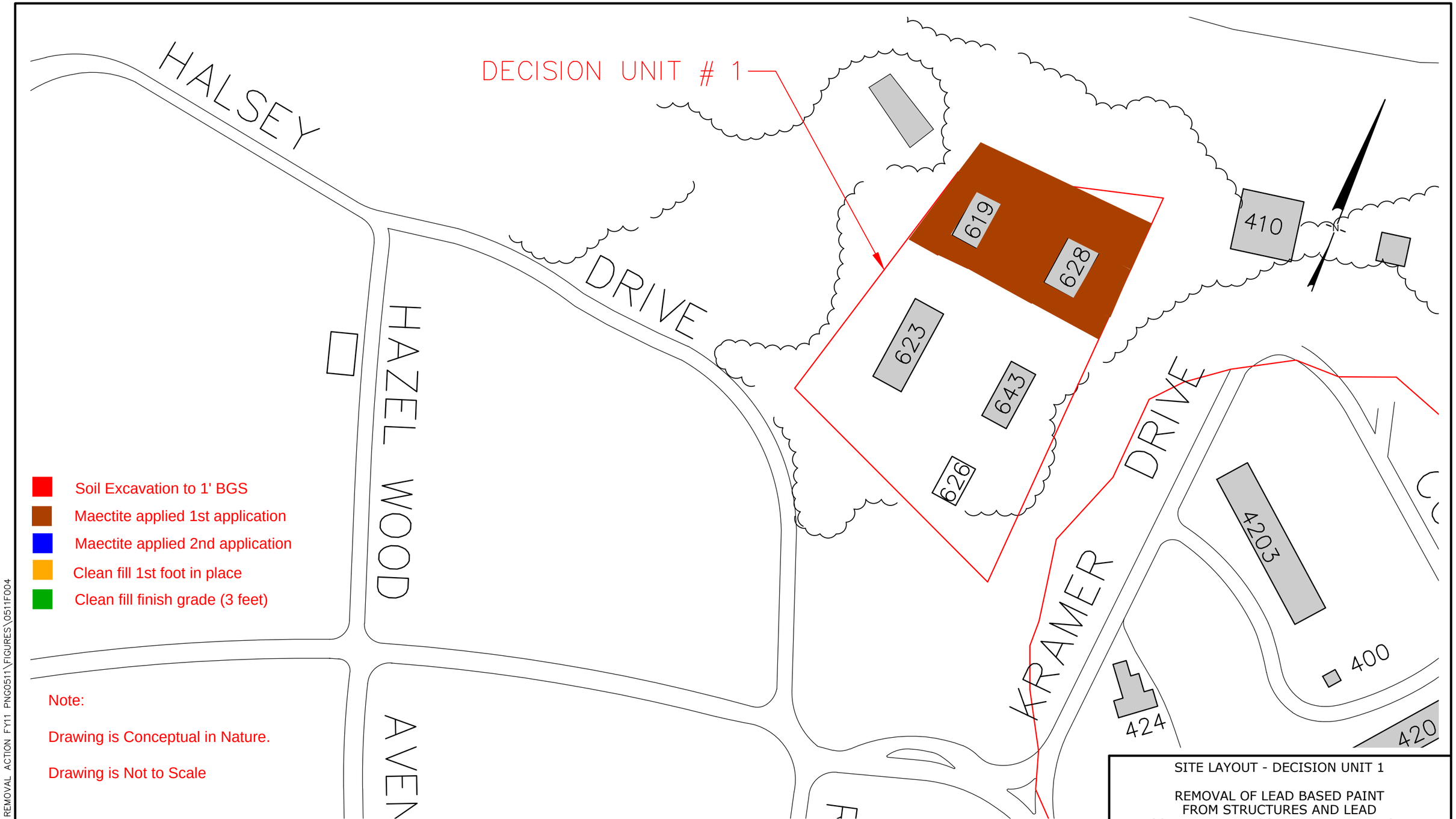

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, August 9, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Cloudy, windy, temps low to mid-80s, rainstorms, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	155 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 – NWDE Maectite crew (A. Philips, M. Saiki, S. Monear, J. Ordaz, J. Smith, and C. Nelson) continue 1st Maectite application and mixing in DU1. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite to a 1 foot depth with excavator and wetting with water follows Maectite application.

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NWDE D. Hard, J. Stone, and C. Tyrrell collect MIS/ICS depth integrated sample of potential alternate borrow source area west of cable buildings using mini excavator (sample collected, and submitted for laboratory analysis).

0930 – NWDE D. Hard and J. Stone join Maectite crew pulling back shadecloth in preparation for Maectite application and mixing.

1100 – NWDE Excavation crew (D. Hard, M. Saiki, and S. Monear) begin excavation from borrow source area and hauling to DU6.

1145 – C. Tyrrell assists U.S. FWS in obtaining sample of liquid in storage tank exposed in DU1 to submit for laboratory analysis.

1200 – Lunch

C. Tyrrell and U.S. FWS PM deliver samples to the charter plane and give a copy of the soil permits to the pilot.

1230 – NWDE Maectite crew (A. Philips, M. Saiki, J. Ordaz, J. Smith, and C. Nelson) continue 1st Maectite application and mixing using excavator on west side of Bldg 623 footprint in DU1.

NWDE Excavation crew (D. Hard and S. Monear) continue excavating and hauling of clean sand borrow source material to DU6.

NWDE J. Stone continues spreading and grading backfill on west side of Bldg 363.

1400 – NWDE J. Stone, C. Tyrrell, and U.S. FWS use mini excavator to excavate test hole in potential borrow source area to determine depth to water and borrow potential on northern boundary. Encounter large 12 inch slab approximately 3.5 feet below ground surface (bgs), charred material layers during excavation approximately 4 feet bgs, and debris including lead painted wood and corrugated fiberglass roofing. Final excavation depth approximately 12 feet.

NWDE J. Stone and C. Tyrrell backfill excavation at northern boundary as well as sample test pits across the potential borrow source area.

1530 – NWDE Maectite crew uncovers the remaining portion of a curved driveway across the southern portion of DU1. A large portion of the driveway is missing, crew will treat dirt with Maectite and excavate.

1615 – NWDE J. Ordaz spreading and grading clean sand backfill on east side of Bldg 363.

1650 – NWDE backfill crew (J. Ordaz, J. Stone) continue spreading and grading clean sand backfill on west side of Bldg 363 with mini excavator and tracked skid steer.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0
08/08/12	0	0	0	0
08/09/12	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE 1st Maectite application and mixing on west side of Bldg 623 footprint in DU1.

Photo 02: NWDE spreading and grading clean sand backfill in DU6.

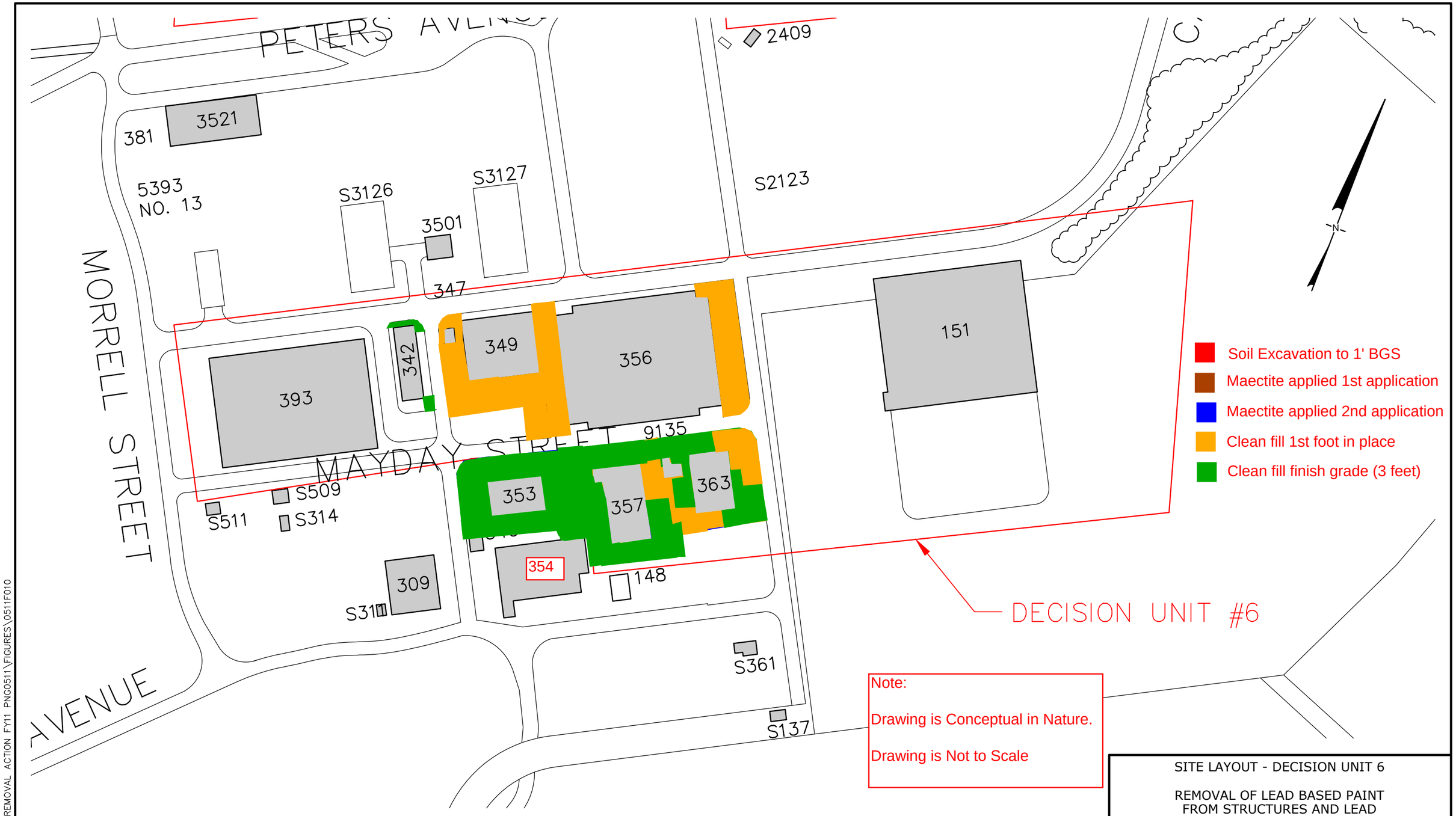
Photo 03: Test pit on northern end of potential alternate borrow source area.

Photo 04: Test pit on northern end of potential alternate borrow source area – note building pad in upper left quadrant of photo.

Photo 05: Lead painted wood and fiberglass roofing found while excavating test pit in potential alternate borrow source area.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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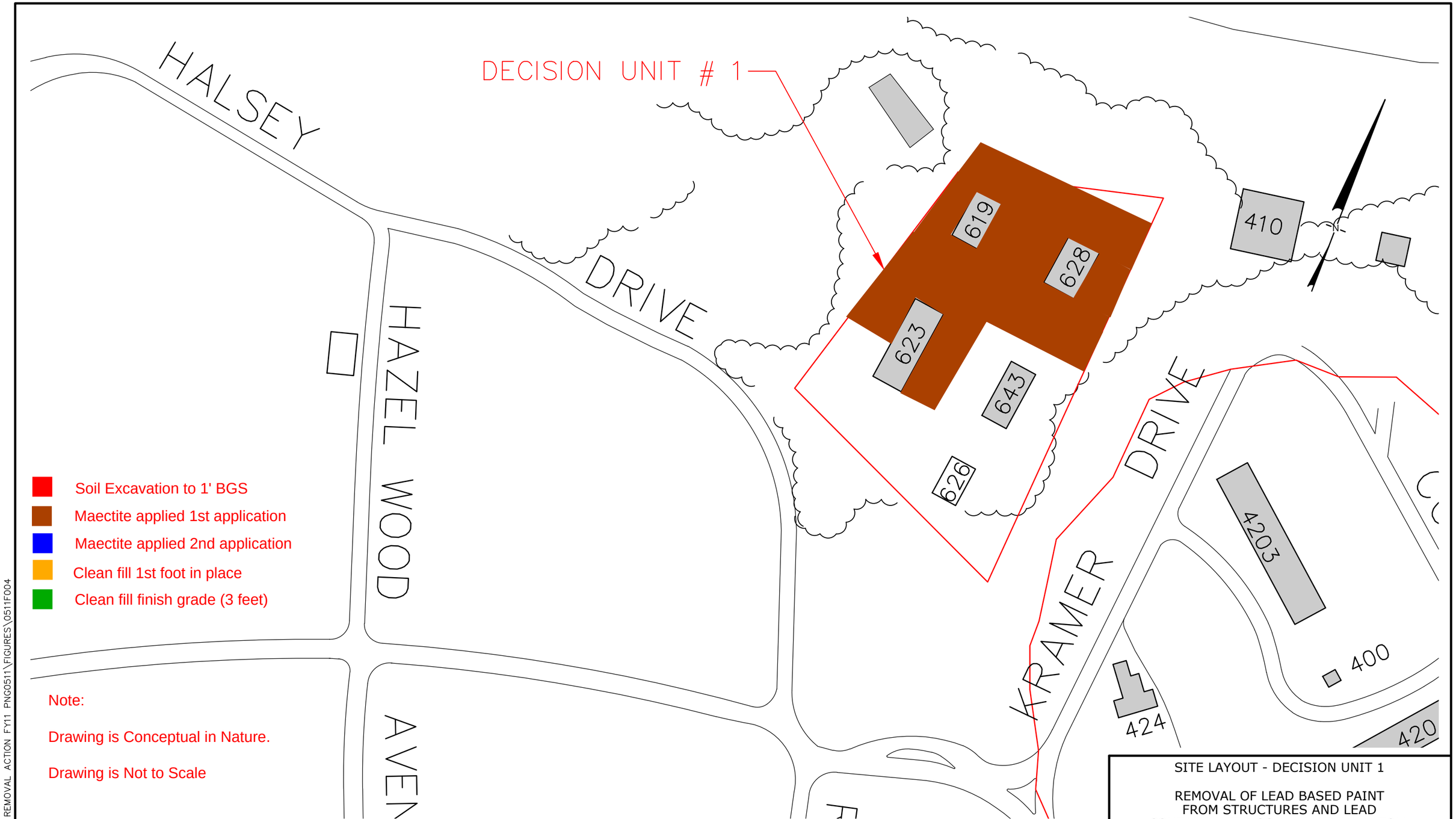

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, August 10, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, temps mid-80s, scattered rain, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	90 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE Maectite crew (A. Philips, M. Saiki, J. Ordaz, J. Smith, and C. Nelson) continue 1st Maectite application and mixing in DU1. Full strength Maectite is being applied at a rate of 0.75 gallons Maectite per cubic yard of soil. Raking to mix Maectite to a 1 foot depth with excavator and wetting with water follows Maectite application.

.

NWDE Excavation crew (D. Hard and S. Monear) begin excavation from borrow source area and hauling to DU6.

NWDE J. Stone spreading and grading clean sand backfill between Bldg 357 and Bldg 363 in DU6.

0830 – NWDE Maectite crew continue 1st Maectite application and mixing using excavator on north and east of Bldg 623 footprint and east of Bldg 623 in DU1.

1100 – NWDE Excavation crew continues excavation and hauling of clean sand backfill to DU6.

NWDE Backfill crew (J. Ordaz and J. Stone) continue spreading and grading clean sand backfill on the south side of Bldg 363 with mini excavator and hand tools.

NWDE Maectite crew (A. Philips, M. Saiki, J. Smith, and C. Nelson) continue laying out grid around building 363 for 1st Maectite application and mixing in DU1.

1110 – Item of potential historic significance recovered by C. Nelson in DU1. The item is recorded as A619-3, location marked, and transported to US FWS office. Details are recorded in a separate report.

1200 – Lunch

1230 – NWDE Maectite crew (A. Philips, M. Saiki, J. Smith, and C. Nelson) continue grid layout, 1st Maectite application, and mixing using excavator on north and east sides of Bldg 643 in DU1. Maectite application and mixing will not go closer than 25 feet from building to incorporate any paint chips and debris from building abatement and surface restoration in treatment process.

NWDE Backfill crew (J. Ordaz and J. Stone) continue spreading and grading clean sand backfill on the south side of Bldg 357 with mini excavator and hand tools.

1400 – NWDE Maectite crew are complete with Maectite application and mixing with the exclusion of the perimeter around Bldg 643, and Bldg 626 where application and mixing will not begin until U.S. FWS archeologist is present.

NWDE Excavation crew (D. Hard and S. Monear) continue excavating and hauling of clean sand borrow source material to DU6.

1600 – NWDE backfill crew (A. Philips, J. Stone, J. Ordaz, J. Smith, C. Nelson) continue spreading and grading clean sand backfill on east side of Bldg 356 with mini excavator and tracked skid steer.

NWDE Excavation crew (D. Hard and S. Monear) continue excavating and hauling of clean sand borrow source material with off road trucks to DU6.

NWDE E. White inspection of R-2 unit, daily cover holding with sandbags.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0
08/08/12	0	0	0	0
08/09/12	0	0	0	0
08/10/12	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE Excavation of clean sand borrow source area.

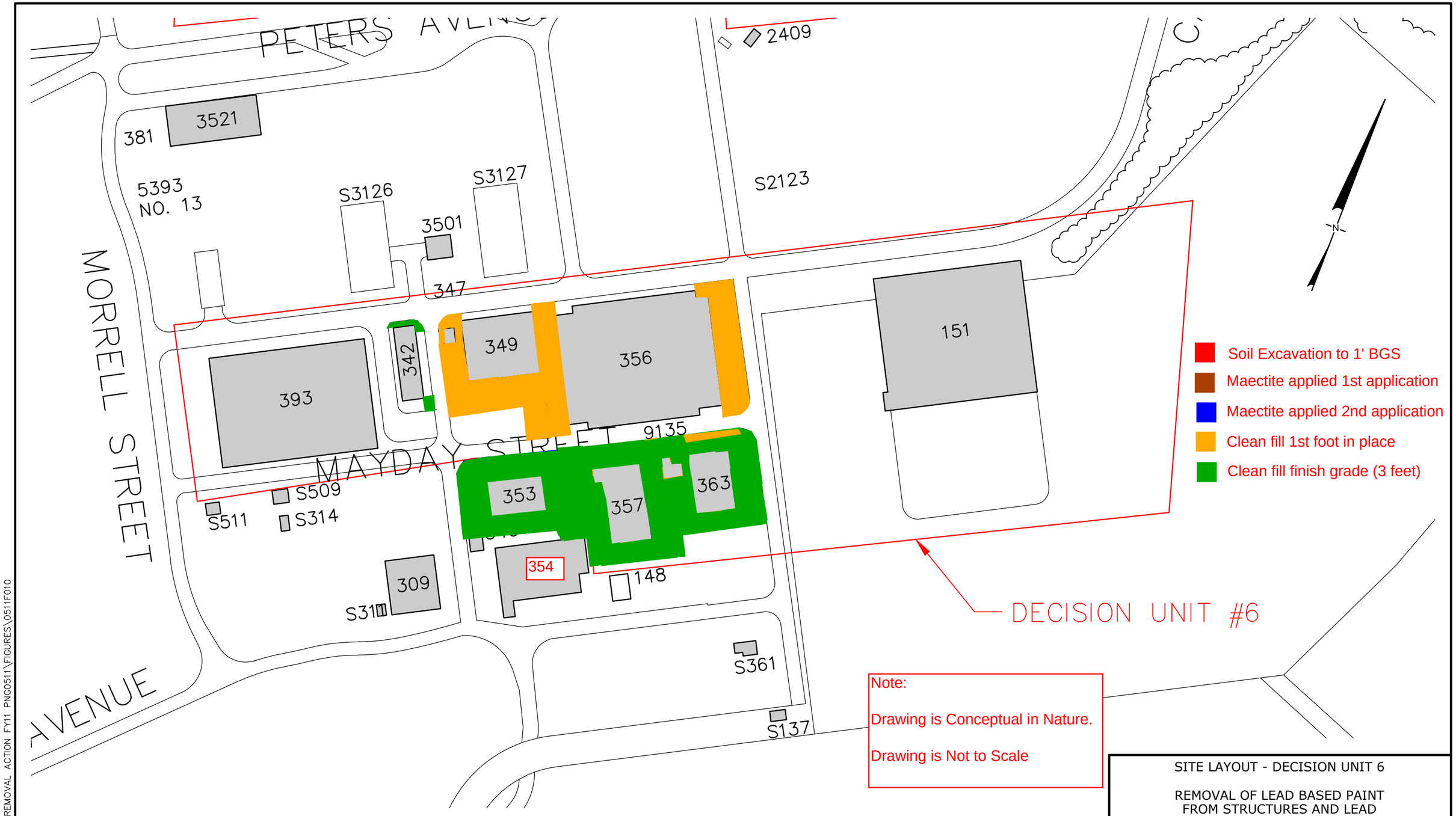
Photo 02: NWDE spreading and grading clean sand backfill with mini excavator in DU6.

Photo 03: NWDE placement and spreading of clean sand backfill on east side of Bldg 356 in DU6.

Photo 04: Clean sand backfill on north side of Bldg 357 in DU6.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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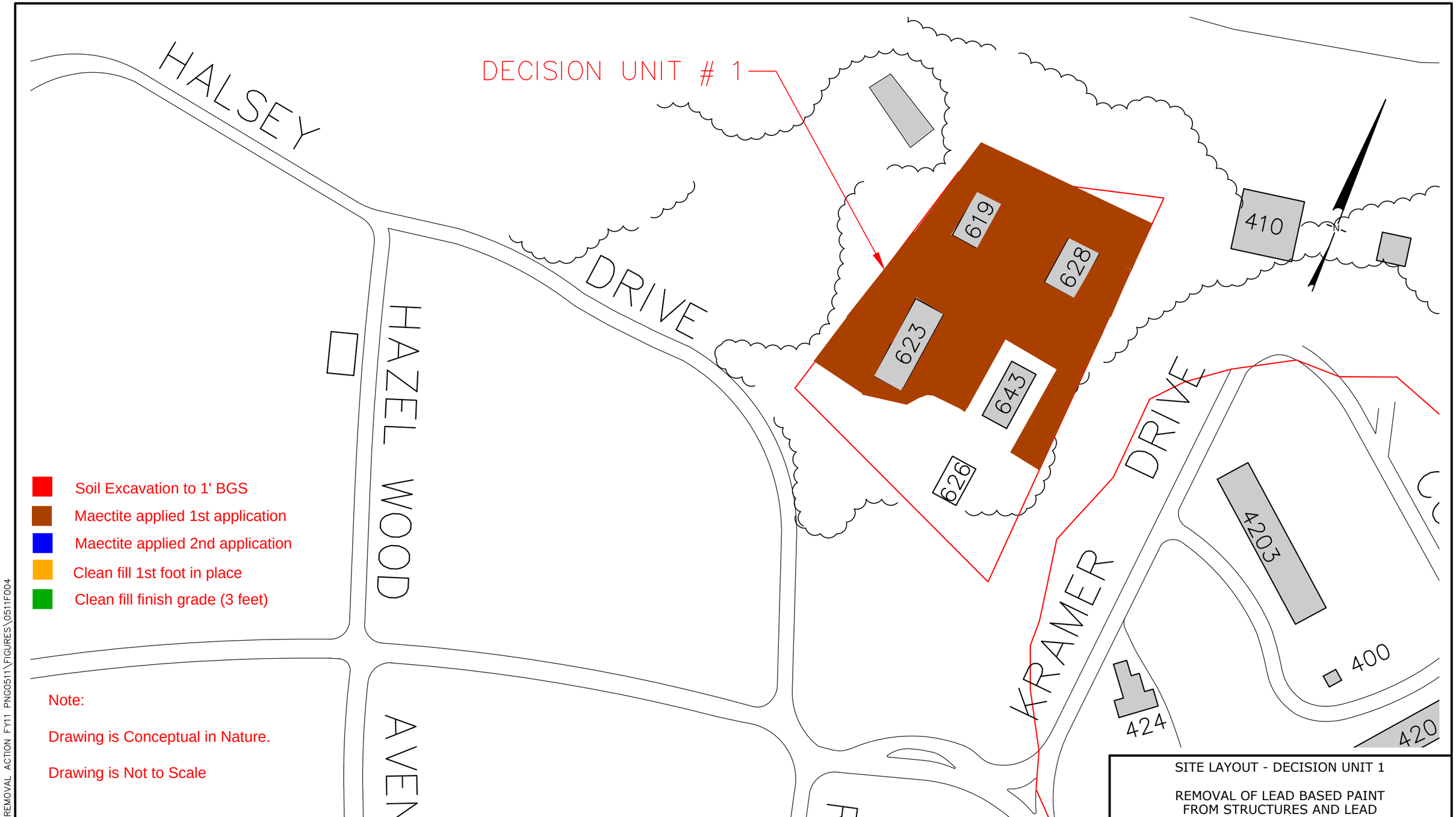

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 11, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, temps mid-80s, scattered rain, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	9
Everett White	NWDE Super	5
Alan Philips	NWDE Operator	5
Dave Hard	NWDE Operator	5
Mike Saiki	NWDE Operator	5
Jose Ordaz	NWDE Operator	5
Jevon Stone	NWDE Operator	5
Sean Monear	NWDE Operator	5
Joel Smith	NWDE Laborer	3.5
Christian Nelson	NWDE Laborer	5

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE S. Monear and M. Saiki perform routine maintenance check on off road trucks.

NWDE D. Hard preparing borrow area for excavation.

NWDE E. White and J. Ordaz inspect R-2 unit daily cover and move sandbags to secure.

NWDE Backfill crew (A. Philips, J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill on the east side of DU6 with mini excavator and hand tools.

0830 – NWDE Excavation crew (D. Hard, M. Saiki, and S. Monear) begin excavation from borrow source area and hauling to DU6.

1015 – NWDE Backfill crew (A. Philips, J. Ordaz J. Stone, J. Smith, and C. Nelson) continues spreading and placing clean sand backfill on the east side of Bldg 356 and north side of Bldg 363.

1030 – NWDE J. Smith off work.

1045 - NWDE Excavation crew continues hauling clean sand backfill from borrow source area.

1200 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0
08/08/12	0	0	0	0
08/09/12	0	0	0	0
08/10/12	0	0	0	0
08/11/12	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

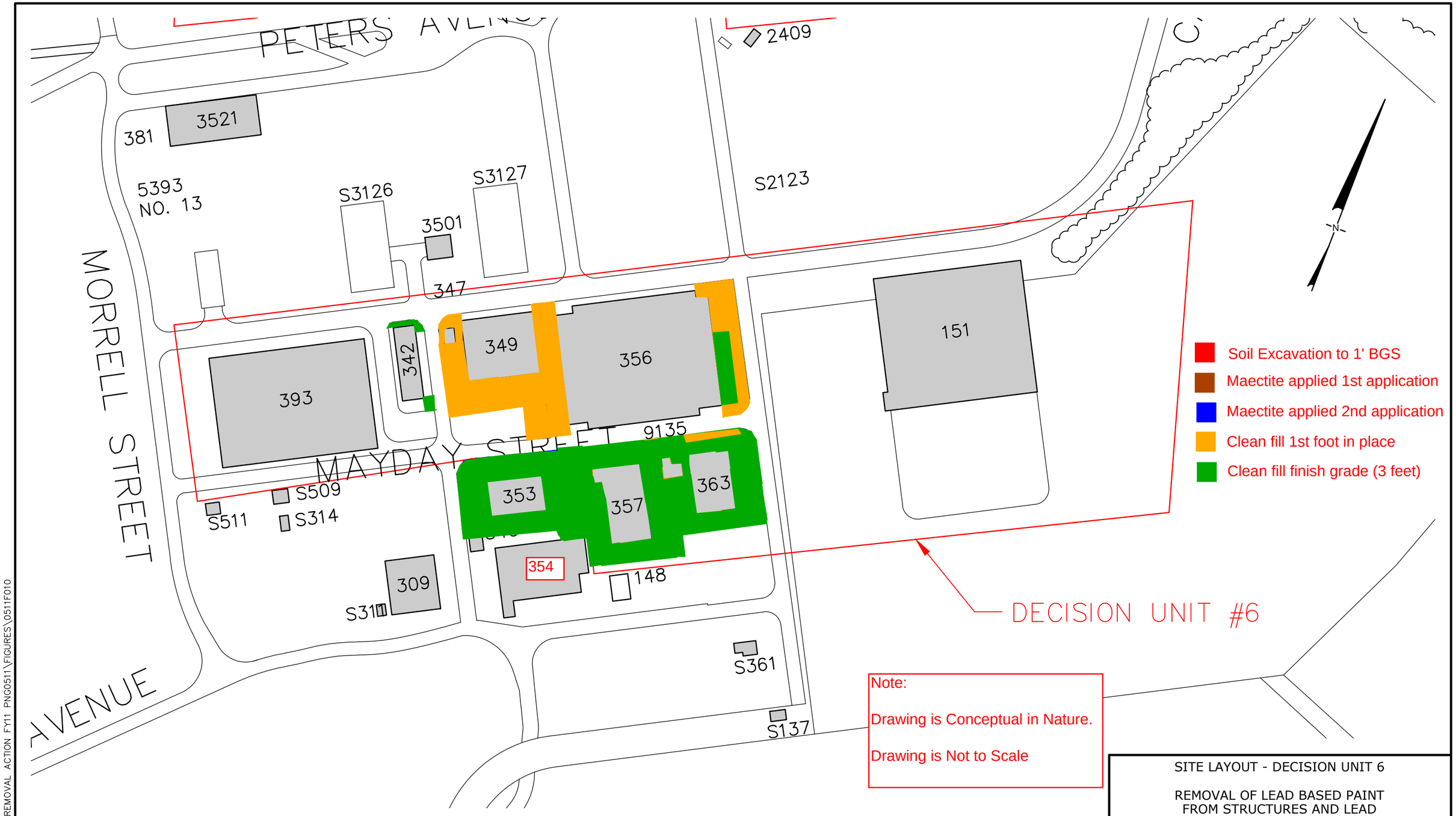
Photo 01: NWDE placement and spreading of clean sand backfill on east side of Bldg 356 in DU6.

Photo 02: NWDE Hauling clean sand backfill to DU6 from borrow source area.

Photo 03: NWDE Excavation of clean sand borrow source area.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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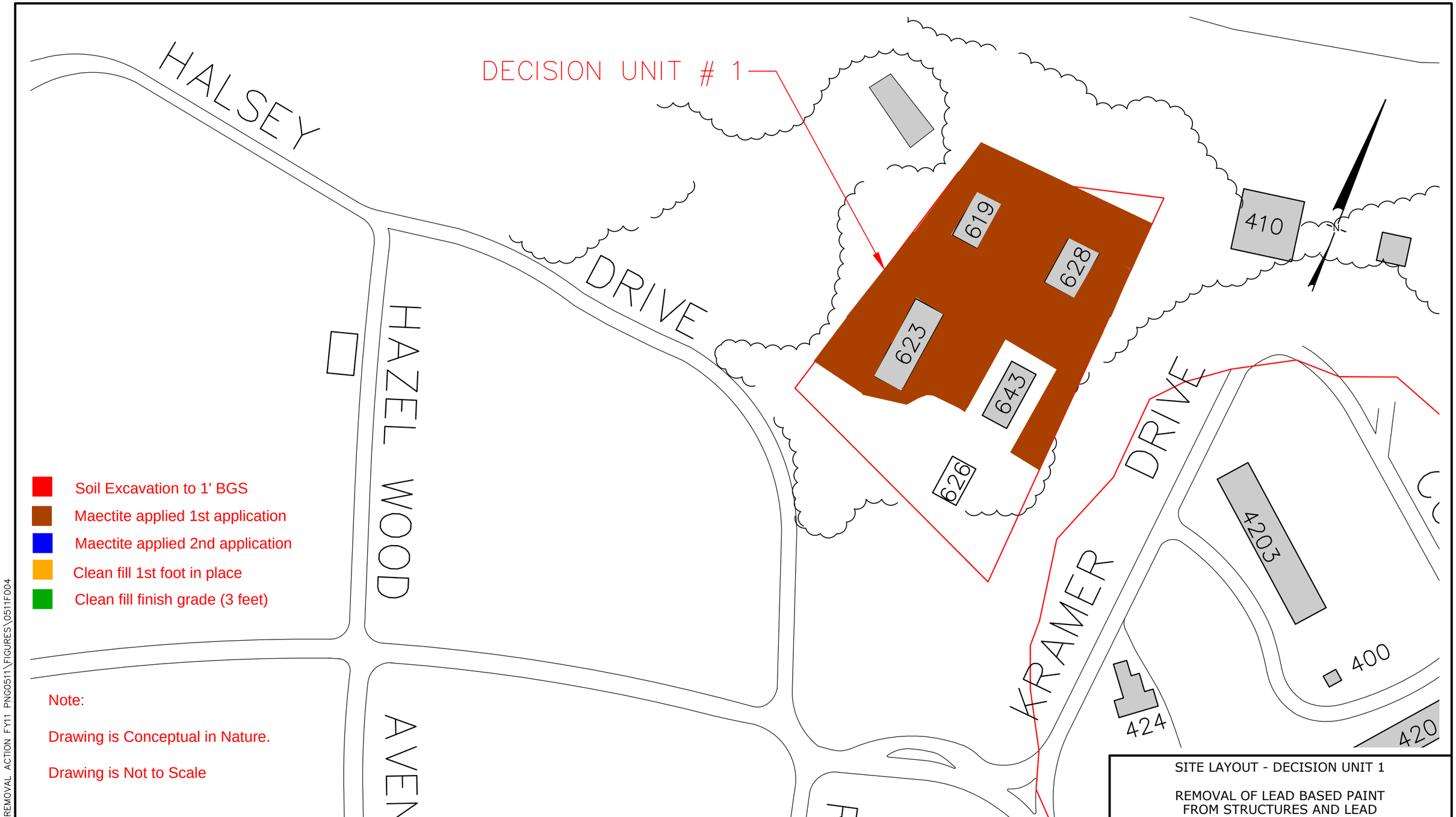

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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, August 13, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, windy, temps upper 80s, scattered rain, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Philips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	240 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE Backfill crew (A. Philips, J. Ordaz, J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill on the east side of Bldg 356 with mini excavator, tracked skid steer, and hand tools.

NWDE Excavation crew (D. Hard, M. Saiki, and S. Monear) begin excavation from borrow source area and hauling to DU6 using excavator and 2 off road trucks.

0850 – NWDE Backfill crew A. Philips begins backfill placement and spreading between Bldg 349 and Bldg 356 using tracked skid steer. Remaining crew members work on east side of Bldg 356 grading clean sand backfill using the mini excavator and hand tools. J. Ordaz using skid steer working on eastern edge of fill and angle of fill to the road.

NWDE Excavation crew continues excavation from borrow source area and hauling clean sand backfill to DU6 for placement using excavator and 2 off road trucks.

1000 – NWDE E. White and C. Tyrrell to U.S. FWS office with U.S. FWS PM for weekly project conference call and on island project team meeting following.

1040 – NWDE Backfill crew spreading and grading clean sand backfill between Bldg 349 and Bldg 356 using mini excavator, tracked skid steer, and hand tools.

Finish grading of backfill on east side of Bldg 356 complete.

NWDE Excavation crew continues excavation from borrow source area and hauling clean sand backfill to DU6 for placement.

1145 – NWDE Backfill crew continue spreading and grading of clean sand backfill between Bldg 349 and Bldg 356.

NWDE Excavation crew continues excavation from borrow source area and hauling clean sand backfill to DU6.

1200 – Lunch

1220 – NWDE team meeting outside of Clipper House.

1230 – NWDE Backfill crew (A. Philips, J. Ordaz, J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill on the west side of Bldg 356 with mini excavator, tracked skid steer, and hand tools.

1330 – NWDE Backfill crew continues spreading and placing backfill on west side of Bldg 356 and southern portion of Bldg 349.

NWDE Excavation crew (D. Hard, M. Saiki, and S. Monear) continue excavation of clean sand backfill from borrow source area and hauling to DU6.

1530 – NWDE Backfill crew continues spreading and grading of backfill on south side of Bldg 349.

Backfill placement and final grading of clean sand backfill between Bldg 349 and Bldg 356 complete.

NWDE Excavation crew continue excavation of backfill from borrow source area and hauling to DU6 for placement.

1615 – NWDE E. White and C. Tyrrell inspection of R-2 unit. Daily cover holding with current sandbag configuration. No standing water on daily cover, although about 6-8 inches of standing water in the bottom of the west, south, and east cells.

1700 – NWDE Backfill crew continues spreading and grading of backfill on west side of Bldg 349 using mini excavator, tracked skid steer, and hand tools.

NWDE Excavation crew continue excavation of backfill from borrow source area and hauling to DU6 for placement using excavator and 2 off road trucks.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
07/26/12	17	0	2	1
07/27/12	5	1	1	0
07/28/12	13	0	1	0
07/30/12	5	0	2	0
07/31/12	6	2	0	2
08/01/12	0	0	1	0
08/02/12	0	1	1	0
08/03/12	0	0	0	0
08/04/12	0	0	0	0
08/06/12	0	0	0	0
08/07/12	0	0	0	0
08/08/12	0	0	0	0
08/09/12	0	0	0	0
08/10/12	0	0	0	0
08/11/12	0	0	0	0
08/13/12	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE clean sand backfill finished grade on east side of Bldg 356 in DU6.

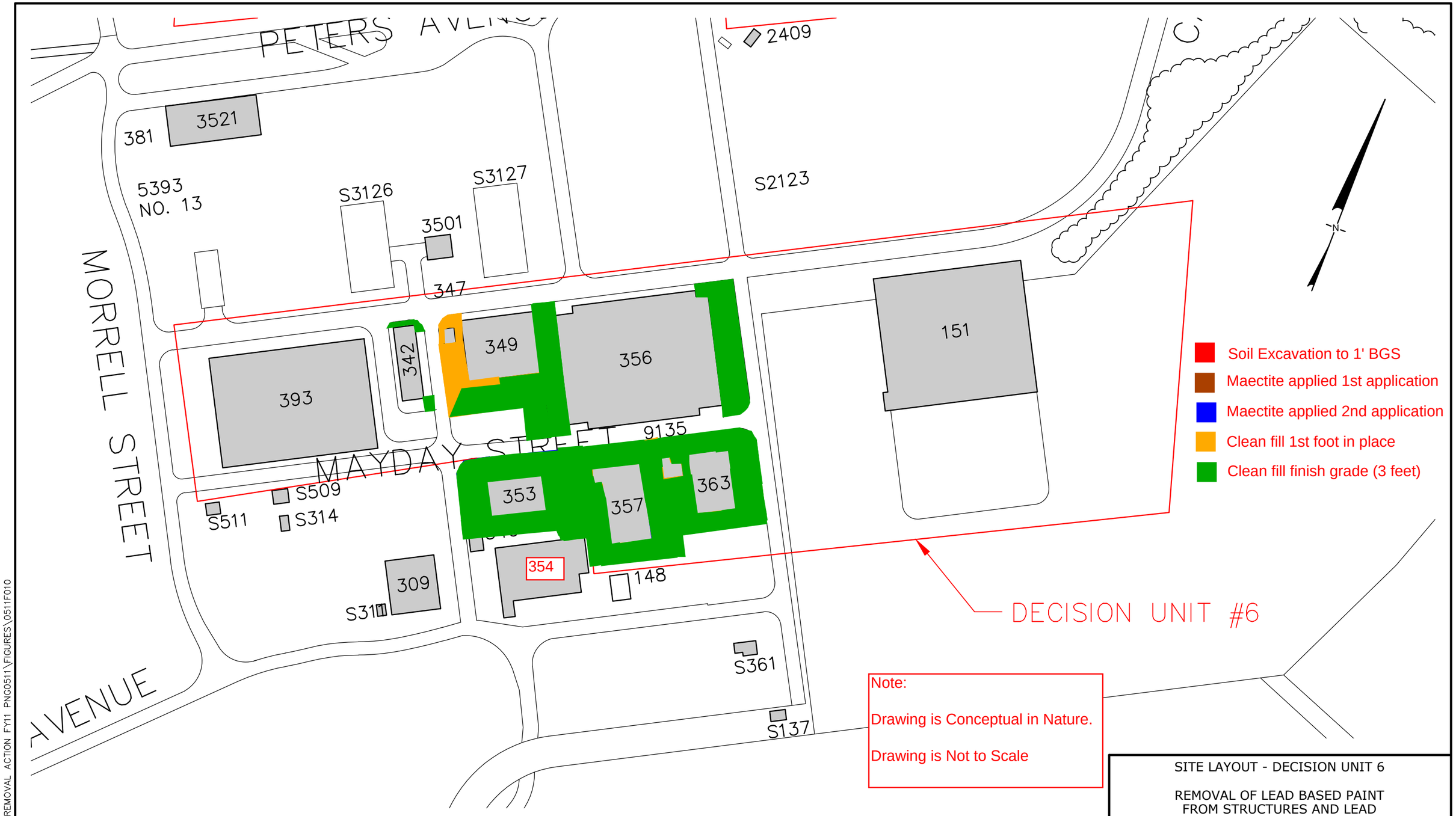
Photo 02: NWDE Excavation of clean sand borrow source area next to Cargo Pier.

Photo 03: NWDE spreading and grading of clean sand backfill between Bldg 356 and Bldg 349.

Photo 04: NWDE spreading and placement of clean sand backfill on south side of Bldg 349.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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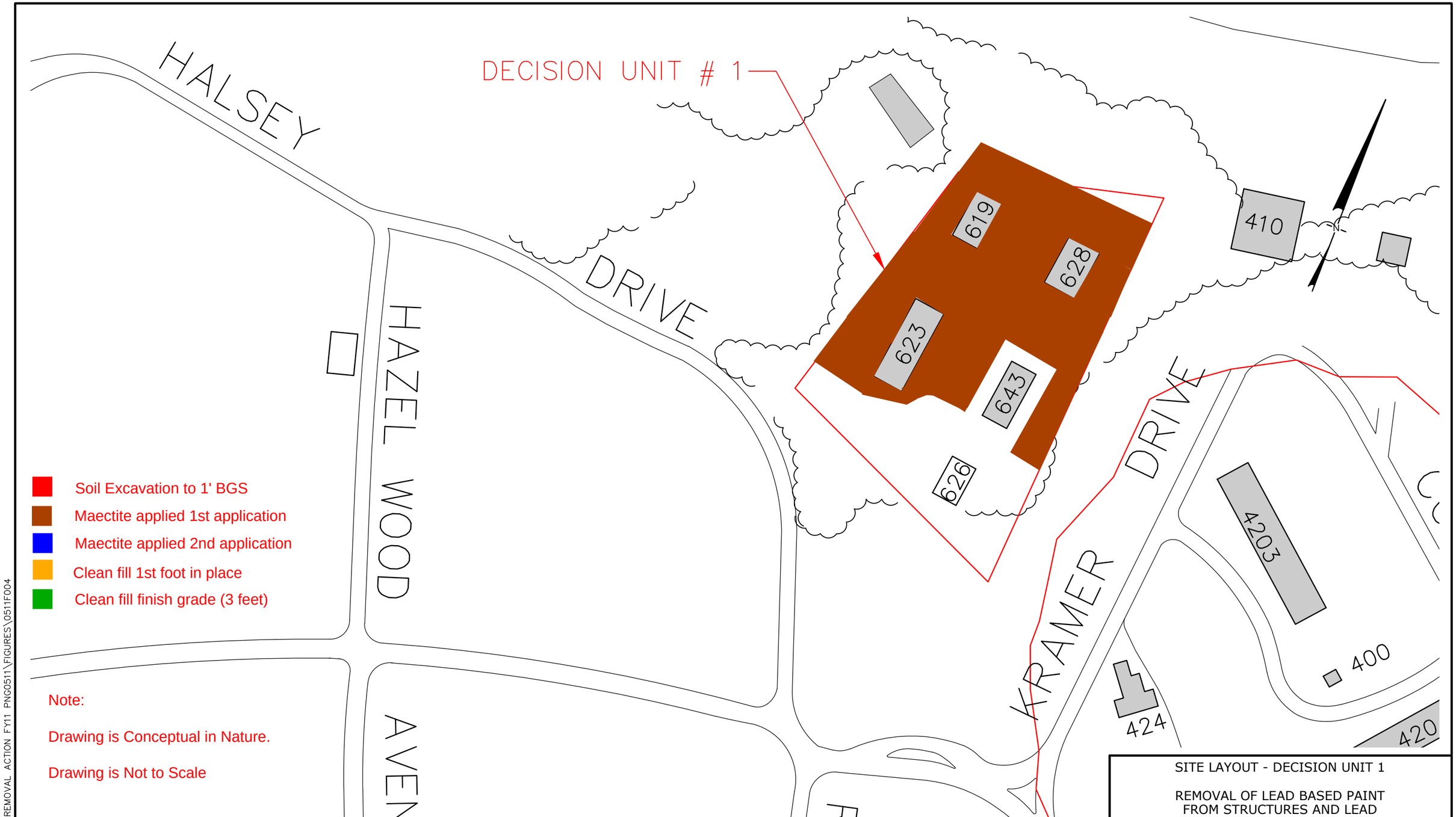

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, August 14, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	153 gallons	

Description of Work:

0645 – NWDE conducts safety meeting.

0720 – NWDE D. Hard grades remaining beach area next to Cargo Pier and prepares to move excavator from borrow area.

NWDE Backfill crew (A. Philips, J. Ordaz, J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill on the west side of Bldg 349 with mini excavator, tracked skid steer, and hand tools.

NWDE M. Saiki, and S. Monear rinse off road trucks.

0840 – NWDE completes grading in DU6, with the exception of the soils surrounding the Ski Warehouse (Bldg 393). The treatment, excavation and backfill of this area will await completion of building demolition scheduled for October 2012. Equipment is moved to airplane hangar for maintenance.

0940 – NWDE crew performs routine maintenance and upkeep on equipment at conex near the airplane hangar.

0945 – NWDE E. White performs inspection of R-2 unit, condition acceptable, daily cover and sandbags holding.

1140 – NWDE crew continues routine maintenance of equipment at conex.

1200 – Lunch

1230 – NWDE Soil Excavation crew (A. Phillips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) move to DU1 to begin excavation of treated soils on the northern portion of the decision unit with mini excavator and tracked skid steer.

NWDE S. Monear and M. Saiki continue maintenance of off road trucks at conex.

1240 – Item recovered by C. Tyrrell in DU1. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A619-4.

1330 – NWDE E. White and D. Hard move excavator to access road to alternate source area for test pits on northern boundary. D. Hard moves excavator in to potential borrow source area with pedestrian escort (S. Monear and M. Saiki). C. Tyrrell and U.S. FWS PM on site to locate and witness potential borrow source locations.

NWDE Soil Excavation crew (A. Phillips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) continue excavation of treated soils on the northern portion of DU1.

1400 – NWDE begins excavation of test pits in potential borrow source area. Three test pits excavated ranging in depth between 11 and 19 feet below ground surface (bgs). Potential disposal area or burn dump identified on the potential borrow source northern boundary in Test Pit #2, described below.

Test Pit #1, located approximately 45 feet west of foundation uncovered on northern boundary of proposed and sampled borrow area west of cable buildings. Charred wood/ash layer encountered at 3 feet bgs, metal electrical conduit at a depth of 12 feet bgs, and water table at a depth of 19 feet bgs. Total depth of test pit = 19 feet bgs.

Test Pit #2, located approximately 60 feet west of Test Pit #1, in a topographically flat area near the western tree line boundary of the proposed source area (Photo 03). Charred wood/ash layer (Layer 4) encountered at 3.5 feet bgs, approximately 4-6 inches in thickness; Ash layer (Layer 3) encountered at a depth of 9.5 feet bgs, approximately 4 inches in thickness; Ash layer (Layer 2) encountered at 12 feet bgs, variable thickness averaging about 2 inches thick. and not visible consistently in the northern excavation wall; Ash layer (Layer 1) encountered at a depth of 16 feet bgs, thickness range 4-6 inches, galvanized trash can and green mesh netting recovered from Layer 1. Water table appears to be 19 feet bgs. Total depth of test pit = 19 feet bgs.

Test Pit #3, located at the break in slope in the approximate center of the proposed borrow area, between what appears to be natural Aeolian sand deposition and manmade topographic variations in the area. No items of concern recovered from this excavation. No burn layer evident during excavation. Sand configuration supports natural deposition theory. Water table at a depth of 10 feet bgs. Total depth of test pit = 11 feet bgs.

U.S. FWS PM decided that the northern portion of the area is not a viable option for a clean sand backfill source. C. Tyrrell, D. Hard, and U.S. FWS PM investigate the potential of a middle sand dune just to the north, toward the beach; however habitat appears to be questionable due to the number of young Tropic bird chicks in the Naupaka on the dune.

Alternate source areas will need to be investigated in order to supply the estimated 5,300 CY required for 2012 activities (assuming that we can excavate approximately 7,000 CY from the lower portions of the potential borrow source area that has already been sampled AND that the sample results are suitable for clean sand backfill). Awaiting permission from the FWS and NOAA for access to additional alternate borrow source areas.

1503 – Item recovered by C. Nelson, NWDE, in DU1. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A619-5.

1615 – Item recovered by D. Hard, NWDE, in DU1. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A619-6.

1645 – Excavation of test pits in potential borrow source area west of cable buildings is complete.

1700 – NWDE Soil Excavation crew continues excavation of northern portion of DU1.

1708 – Item recovered by C. Nelson, NWDE, in DU1. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A628-1.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/13/12	0	0	0	0
08/14/12	0	0	0	0
08/15/12				
08/16/12				
08/17/12				
08/18/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE clean sand backfill spreading and grading on west side of Bldg 349 in DU6.

Photo 02: NWDE clean sand backfill spreading and grading on west side of Bldg 349 in DU6

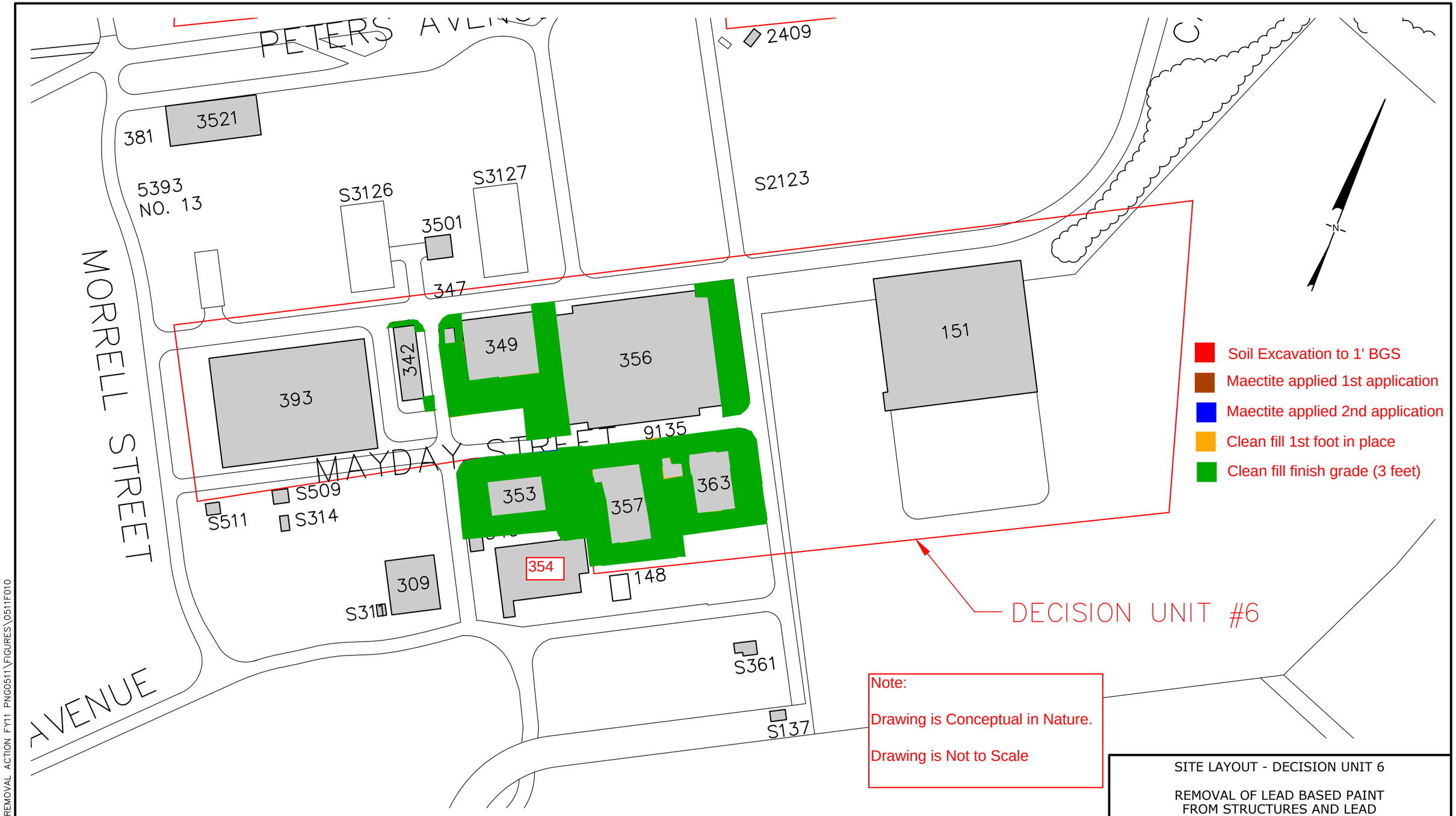
Photo 03: NWDE excavation of Test Pit #2 in northern portion of western potential borrow source area.

Photo 03: Galvanized trash can uncovered at a depth of 16 feet bgs during NWDE excavation of Test Pit #2 in northern portion of western potential borrow source area.

Photo 04: NWDE excavation of 1st foot of treated soil in northern section of DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU6 and DU1.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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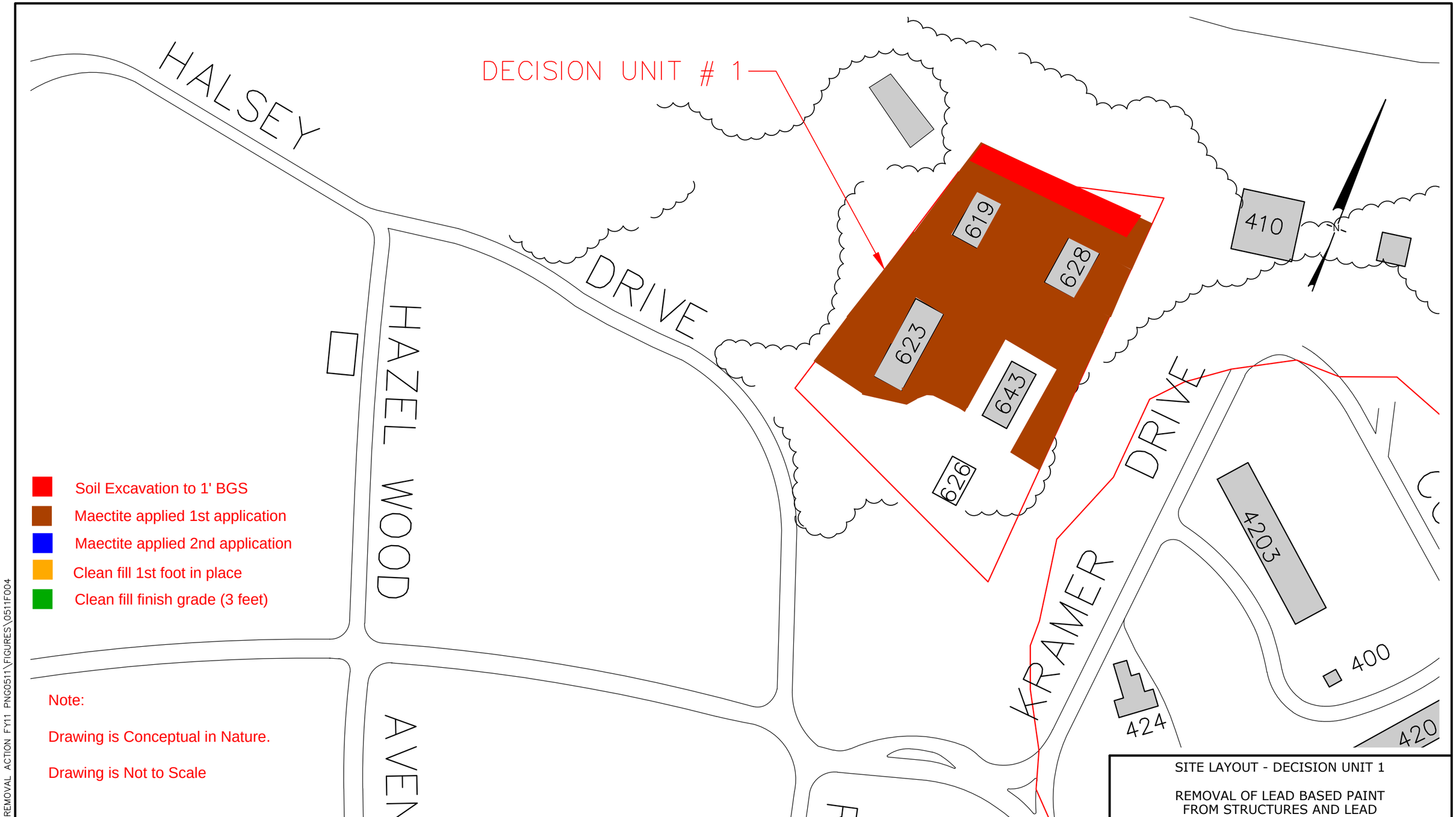

NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Wednesday, August 15, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Cloudy, light breeze, temps mid-80s, scattered rain showers throughout the day, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors:

Name	Company
None	

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0645 – NWDE conducts safety meeting.

0740 – NWDE Soil Excavation crew (A. Phillips, J. Stone, J. Ordaz, and C. Nelson) continue excavation of treated soils on the northern portion of DU1 using mini excavator and tracked skid steer.

NWDE crew (D. Hard, M. Saiki, S. Monear, and J. Smith) move sandbags and remove daily cover at the R-2 unit in preparation for hauling to resume from DU1.

0915 – Item recovered by C. Nelson, NWDE, in DU1. Item recorded and cataloged as an item of potentially historic significance. Details are recorded in a separate report. The item is recorded as A628-2.

1015 – NWDE Soil Excavation crew continue excavation treated soils to a depth of 1 foot below original grade north of Bldg 628 and Bldg 619 footprints in DU1.

NWDE crew (D. Hard, M. Saiki, S. Monear, and J. Smith) complete at R-2 unit. North cell daily cover removed. Partial removal of west cell daily cover.

Pump set in west cell to transfer water to south cell where no work is taking place to try to encourage Laysan ducks to move over to an inactive cell.

Depth of water in bottom of R-2 unit estimated to be between 6 inches and 8 inches deep. Minimal amount of water will be left in the bottom of the west cell near the exit ramp to provide a tire wash for off road trucks exiting R-2 unit.

1020 – NWDE D. Hard moves excavator from entrance to potential borrow source area west of cable buildings back to DU1.

1130 – NWDE Soil Excavation crew continues treated soil excavation from northern portion of DU1, directly north of Bldg 628 footprint. Hauling soil to R-2 unit anticipated to begin tomorrow morning.

NWDE crew sets up tire wash station at the entrance and exit to DU-1 for equipment leaving the site.

1200 – Lunch.

1230 – NWDE Soil Excavation crew (A. Phillips, J. Stone, J. Ordaz, and C. Nelson) begins stockpiling treated soil for hauling tomorrow to R-2.

NWDE S. Monear and J. Smith cleaning building pads.

NWDE D. Hard switches bucket on excavator in preparation for loading clean concrete in to off road trucks and transport from DU1.

1330 – NWDE D. Hard, S. Monear, and M. Saiki begin loading and hauling clean concrete to project stockpile near seaplane hangar using excavator and 2 off road trucks.

1400 – NWDE Excavation crew continues excavation of treated soils to a depth of 1 foot below grade on west side of Bldg 619 footprint.

NWDE E. White inspection of R-2 unit, pumping of water continues to inactive cell.

1430 – NWDE E. White and C. Tyrrell investigate North Beach borrow source potential, north of area sampled last week.

1540 – NWDE Excavation crew (A. Phillips, J. Stone, J. Ordaz, J. Smith and C. Nelson) continues excavation of treated soil to a 1 foot depth on the NW corner of DU1 using mini excavator and tracked skid steer.

Pumping stopped in R-2 unit, the majority of the water has been transferred to the south (inactive) cell.

NWDE crew (D. Hard, S. Monear, and M. Saiki) loading and hauling of clean concrete from DU1 continues using excavator and off road trucks.

11 Items recovered by J. Ordaz, NWDE, in DU1. Items recorded and cataloged as items of potentially historic significance. Details are recorded in a separate report.

1700 – NWDE Excavation crew continues excavation of treated soils from northern portion of DU1 and stockpiling for hauling to R-2 tomorrow.

NWDE crew (D. Hard, S. Monear, and M. Saiki) continues loading and hauling of clean concrete from DU1 continues using excavator and off road trucks.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/13/12	0	0	0	0
08/14/12	0	0	0	0
08/15/12	0	6.25	0	0
08/16/12				
08/17/12				
08/18/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavation of 1st foot of treated soil in northwestern corner of DU1.

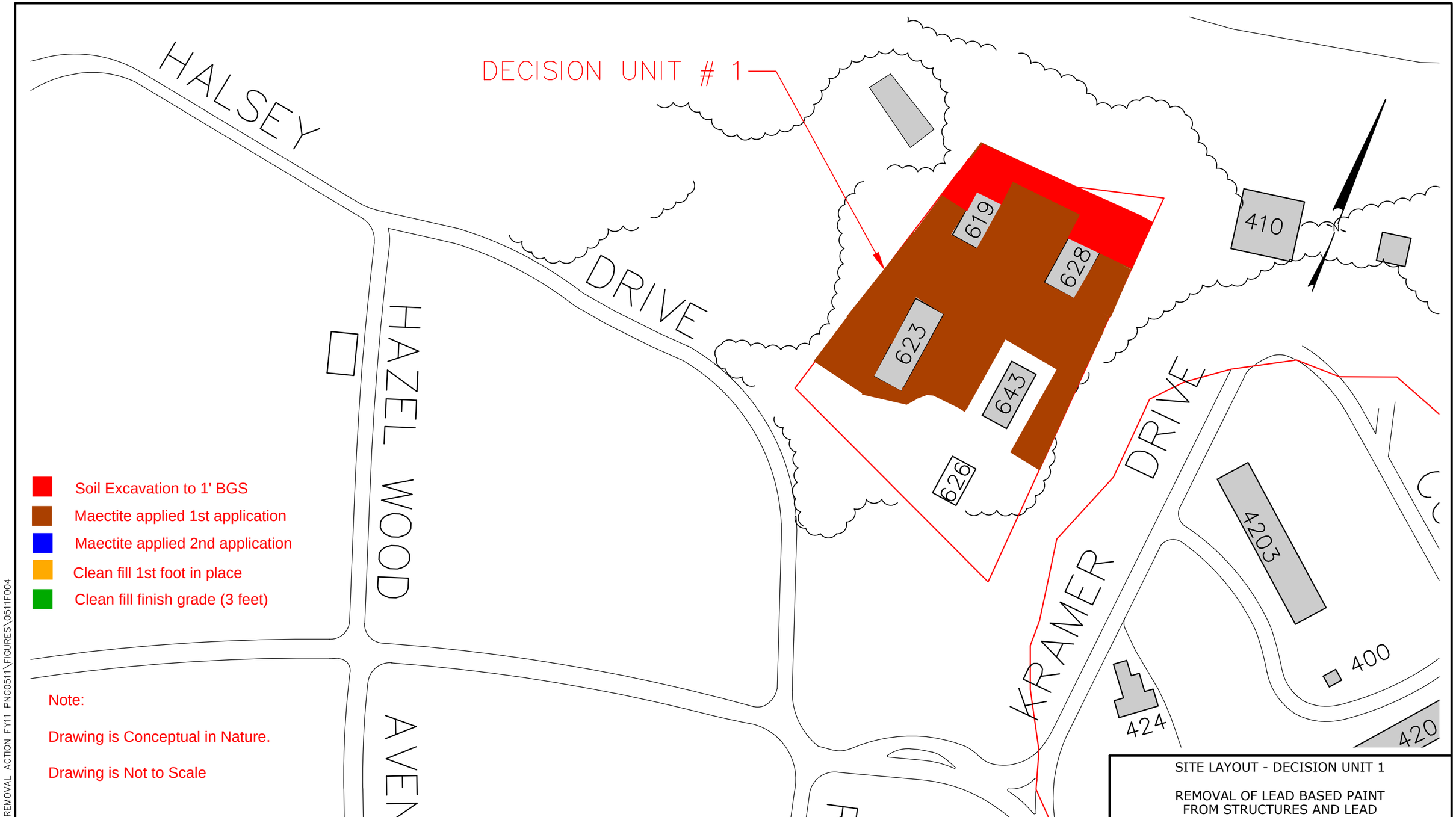
Photo 02: NWDE loading clean concrete from DU1 in to off road trucks.

Photo 03: NWDE excavation of 1st foot of treated soil in northern portion of DU1.

Photo 04: Pump set in west cell of the R-2 unit and diversion of water to southern cell to discourage Laysan duck usage (seen in the photo in the water on the bottom of the western cell and on top of the cell wall on the right hand side – approximately 30 Laysan ducks present in R-2 unit at this time).

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Thursday, August 16, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps mid-80s, scattered rain showers throughout the day, rain night before, ground saturated with standing water in morning.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	6.5
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	3
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		6.1 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	191.2 gallons	

Description of Work:

0645 – NWDE conducts safety meeting.

0715 – NWDE Soil excavation crew (A. Phillips, J. Stone, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade on the northern portion of DU1 using mini excavator and tracked skid steer.

NWDE Loading and hauling crew (D. Hard, J. Ordaz, M. Saiki, and S. Monear) use excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils in the R-2 with the dozer.

Off road trucks are washed at the wheel wash station prior to exiting DU1 to reduce risk of mechanical dispersion of contamination.

0845 – NWDE Excavation crew continues excavation of treated soils in northern portion of DU1.

NWDE Loading and hauling crew continue transport of excavated and treated soils to R-2 unit for spreading and compaction using excavator, 2 off road trucks, and dozer.

1000 - NWDE Excavation crew continues excavation of treated soils to a depth of 1 foot below grade in northern portion of DU1 using mini excavator and tracked skid steer.

NWDE A. Phillips takes over driving one of the off road trucks for M. Saiki. M. Saiki off island for 1 week, and anticipated to return August 23rd.

1030 – Project personnel arrive on island including D. Leibelt, NWDE, F. Gaetano, U.S. FWS Interim PM, and Rich Nees, U.S. FWS Contract Project Archeologist.

1107 – Item recovered by J. Smith, NWDE, in DU1. Item location marked, time recorded and left in place to be turned over to archeologist as an item of potentially historic significance.

1130 – NWDE Excavation crew (J. Stone, J. Smith, and C. Nelson) continue excavation of treated soils in DU1.

NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz, and S. Monear) continue transport and spreading of treated soil in R-2 unit.

Project personnel off island on flight include M. Saiki, NWDE and M. Amann, U.S. FWS PM.

1200 – Lunch

1230 – NWDE Soil excavation crew (J. Stone, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade between Bldg 619 and Bldg 628 footprints in DU1 using mini excavator and tracked skid steer.

NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz, and S. Monear) load, transport, and spread and compact treated soils in R-2 unit using excavator, 2 off road trucks, and dozer.

1400 – Excavation crew continues to excavate treated soils in DU1 between Bldg 619 and Bldg 628 using mini excavator and tracked skid steer.

NWDE Loading and hauling crew continue to load treated soils from DU1, haul soils to the R-2 unit, and spread and compact treated soils in the R-2 unit.

1430 – DBSI on site to fix water line damaged during demolition north of Bldg 619 footprint.

NWDE D. Leibelt, E. White, and C. Tyrrell investigate viability and locations of potential alternate borrow source areas.

1515 – NWDE D. Leibelt, C. Tyrrell, R. Nees, and Interim U.S. FWS PM discuss project activities to date, view current borrow source area, and investigate viability and locations for potential alternate borrow source areas.

Project related finds of potential historical interest are turned over to and the responsibility of the project archeologist. Items found on August 15th will be described in detail in an additional document and turned over before Thursday, August 23rd.

1600 – NWDE Excavation crew continues to excavate treated soils in DU1 between Bldg 619 and Bldg 628 footprints.

NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz, and S. Monear) load, transport, and spread and compact treated soils in R-2 unit using excavator, 2 off road trucks, and dozer.

1715 – NWDE off road truck delivers last load of treated soil for the day to the R-2 unit.

NWDE Excavation crew continues excavation of treated soils to a depth of 1 foot below grade in DU1 using mini excavator and tracked skid steer.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/13/12	0	0	0	0
08/14/12	0	0	0	0
08/15/12	0	6.25	0	0
08/16/12	0	0	0	0
08/17/12				
08/18/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

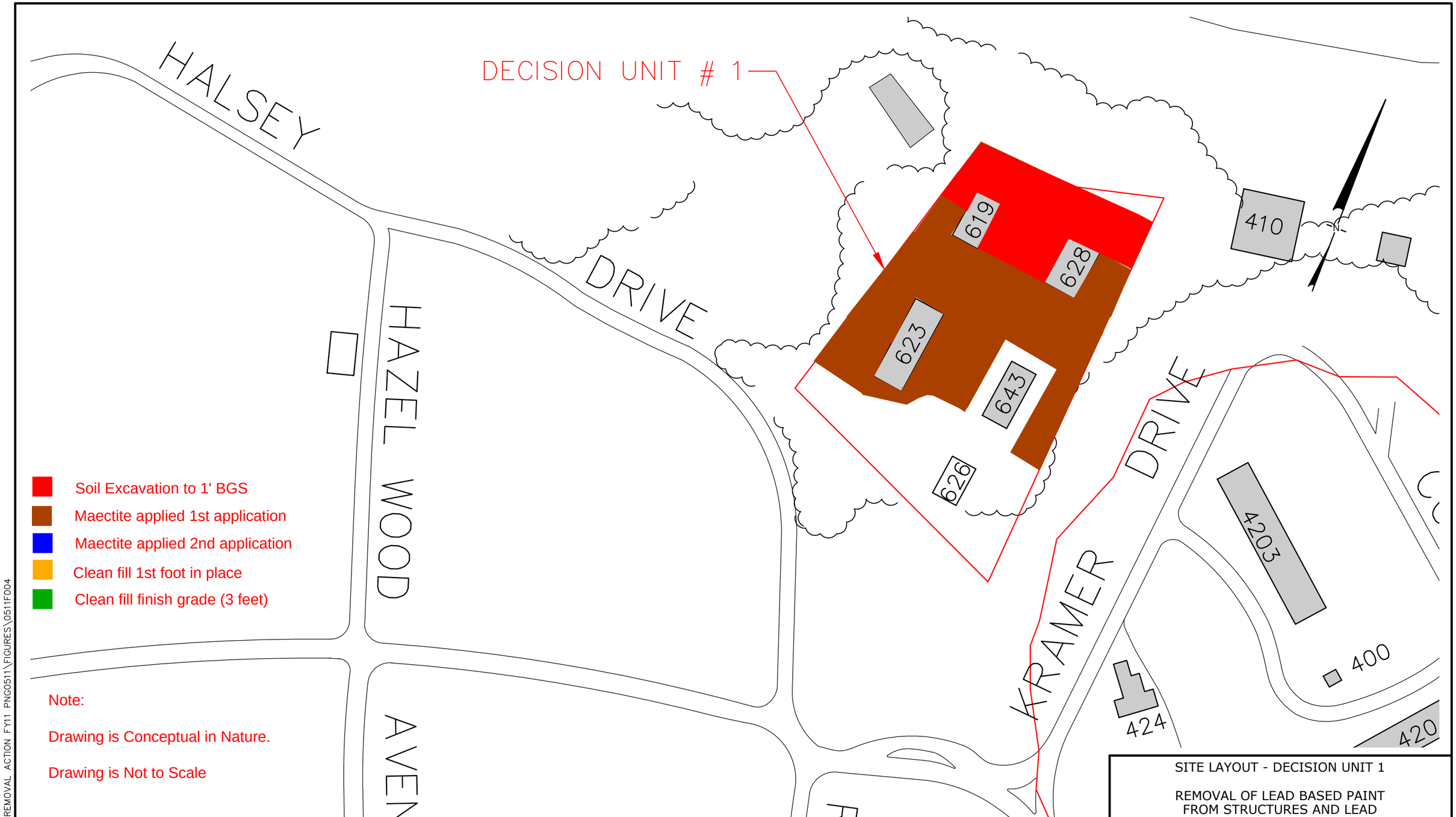
Photographs:

Photo 01: NWDE excavation of 1st foot of treated soil in northern portion of DU1.

Photo 02: NWDE hauling and placing treated soil in to the R-2 unit.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, August 17, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps mid-80s, rain night before, ground saturated during morning hours.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	10
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		1.8 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	282 gallons	

Description of Work:

0645 – NWDE conducts safety meeting.

0730 – NWDE Soil excavation crew (J. Stone, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade on the east side of footprint for Bldg 628 in the northern portion of DU1 using mini excavator and tracked skid steer.

NWDE crew (D. Hard, J. Ordaz, D. Leibelt, E. White, and C. Tyrrell) pull back shade cloth for contract archeologist to begin excavation of south side of servants quarters footprint of Bldg 626.

NWDE A. Phillips stockpiles treated and excavated soils in preparation for hauling to R-2 unit.

NWDE S. Monear switches out bucket on excavator.

0800 – NWDE modifies the wheel wash station at the site exit to allow for better drainage and to prevent cross-contamination of clean areas while hauling treated soils to the R-2 unit.

0900 – NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz and S. Monear) use excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils in the R-2 with the dozer.

1045 – Contract archeologist continues dig on south side of Bldg 626 footprint.

NWDE Loading and hauling crew continue transport of excavated and treated soils to R-2 unit for spreading and compaction using excavator, 2 off road trucks, and dozer.

NWDE Excavation crew continues excavation of treated soils on west side of Bldg 619 in northern portion of DU1 using the mini excavator and tracked skid steer.

1200 – Lunch

1230 – NWDE Soil excavation crew (J. Stone, J. Ordaz, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade on west side of footprint for Bldg 619 in DU1 using mini excavator and tracked skid steer.

NWDE Loading and hauling crew (E. White, D. Hard, A. Phillips, and S. Monear) load, transport, and spread and compact treated soils in R-2 unit using excavator, 2 off road trucks, and dozer.

1300 – NWDE excavation crew continues to excavate treated soils in DU1 on south side of Bldg 619 footprint using mini excavator and tracked skid steer.

1500 – NWDE excavation crew continues to excavate treated soils on south side of Bldg 619 footprint.

NWDE Loading and hauling crew continue to load treated soils from DU1, haul soils to the R-2 unit, and spread and compact treated soils in the R-2 unit.

C. Tyrrell begins MIS sampling on the north and east sides of Bldg 619 footprint. Sample number: 619, Dup-13, and Dup-14. Sampling of south and west side will occur once excavation of building pad perimeter is complete.

1700 – NWDE Excavation crew continues to excavate treated soils in DU1 on south side of Bldg 628 footprint.

NWDE Loading and hauling crew (E. White, D. Hard, A. Phillips, and S. Monear) load, transport, and spread and compact treated soils in R-2 unit using excavator, 2 off road trucks, and dozer.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748
08/17/12	-	-	-	7208	902	6545	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/13/12	0	0	0	0
08/14/12	0	0	0	0
08/15/12	0	6.25	0	0
08/16/12	0	0	0	0
08/17/12	0	0	0	0
08/18/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavation of 1st foot of treated soil in DU1.

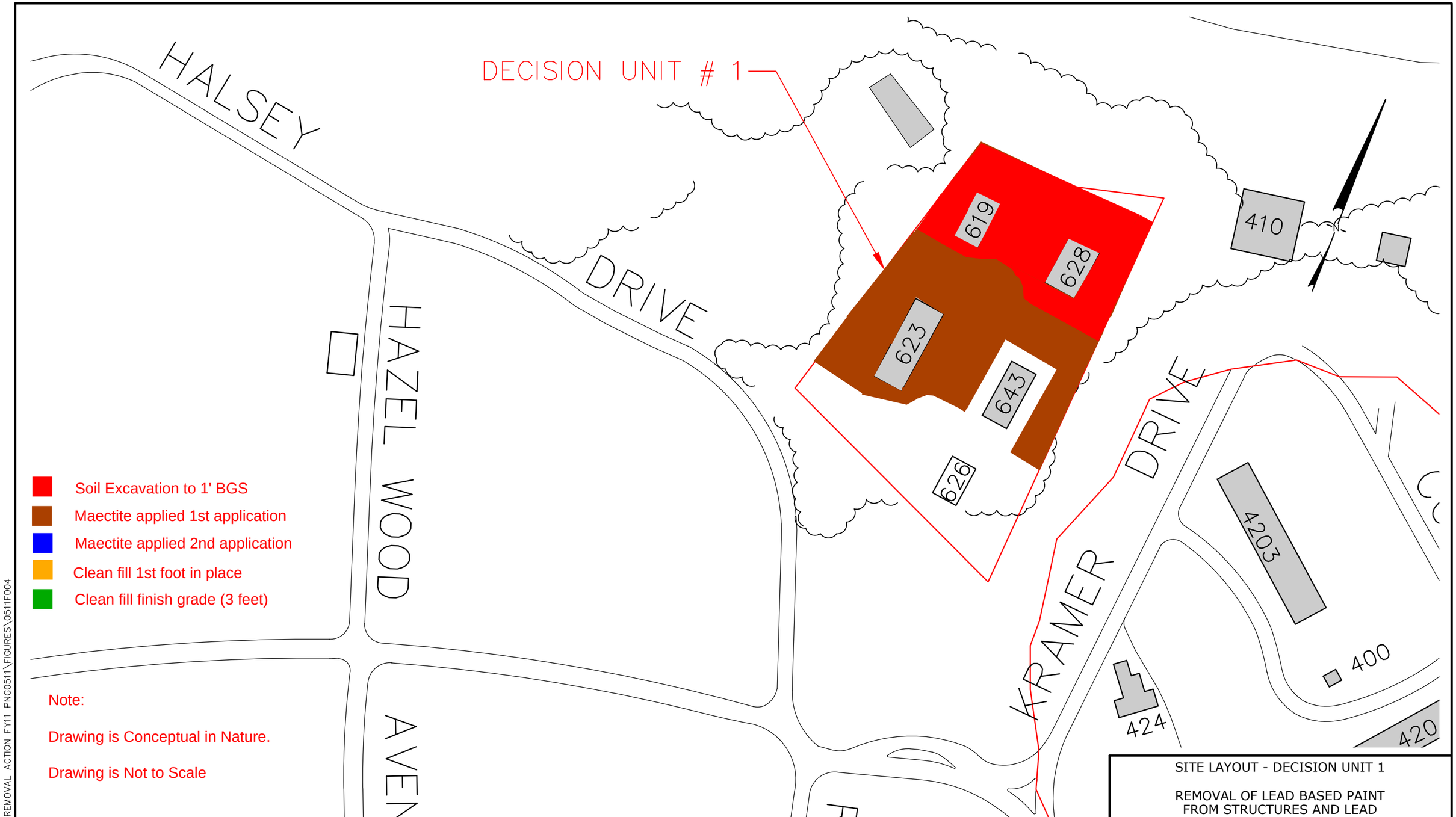
Photo 02: U.S. FWS contract archeologist on site in DU1 near footprint of Bldg 626.

Photo 03: NWDE loading treated and excavated soil in to off road truck for hauling to the R-2 unit.

Photo 04: NWDE spreading and compacting treated soil in the R-2 unit.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



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0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 18, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s, rain night before, ground saturated during morning hours.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	10
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		4 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	110 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 – NWDE J. Stone scrapes off top 30 cm of bottle dump area next to servants quarters Bldg 626 footprint as per archaeologist request to expedite feature dig using mini excavator.

NWDE loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils in the R-2 with the dozer.

NWDE J. Smith wheel wash station cleaning off road trucks as exiting DU1 to prevent cross-contamination from the active project area.

0830 – NWDE soil excavation crew (J. Stone, J. Ordaz J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade on the south side of footprint for Bldg 628 in DU1 using mini excavator and tracked skid steer.

NWDE loading and hauling crew continues to load off road trucks with treated soil from DU1 for transport to R-2 unit.

1100 - NWDE soil excavation crew continues to excavate treated soils on the south side of Bldg 619 footprint.

NWDE Loading and hauling crew continues to load off road trucks with treated soil from DU1 for transport to R-2 unit.

C. Tyrrell begins MIS sampling on the west side of Bldg 628 footprint. Sample number: 628, Dup-15, and Dup-16.

1200 – Lunch

1230 – NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and metal to the stockpile near the seaplane hangar.

NWDE soil excavation crew (J. Stone, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade in DU1 using mini excavator and tracked skid steer.

C. Tyrrell continues MIS sample around Bldg 628 footprint.

1415 – NWDE soil excavation crew continue to excavate treated soils on the northeast corner of Bldg 643 using mini excavator and tracked skid steer.

NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils in the R-2 with the dozer.

1545 – NWDE Loading and hauling crew (D. Hard, A. Phillips, J. Ordaz, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils with the dozer.

NWDE soil excavation crew (J. Stone, J. Smith, and C. Nelson) excavate treated soils to a depth of 1 foot below grade in DU1 on the north side of Bldg 643 using mini excavator and tracked skid steer.

C. Tyrrell collects 3 aliquot MEP sample from R-2 unit.

1702 – NWDE Loading and hauling crew continues using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils with the dozer.

NWDE soil excavation crew excavate treated soils to a depth of 1 foot below grade in DU1 on the north side of Bldg 643 and Bldg 623 footprint using mini excavator and tracked skid steer.

C. Tyrrell completes MIS sample for Bldg 628 footprint.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748
08/17/12	-	-	-	7208	902	6545	-	11748
08/18/12	-	-	-	7208	902	7447	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/13/12	0	0	0	0
08/14/12	0	0	0	0
08/15/12	0	6.25	0	0
08/16/12	0	0	0	0
08/17/12	0	0	0	0
08/18/12	0	0	1	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

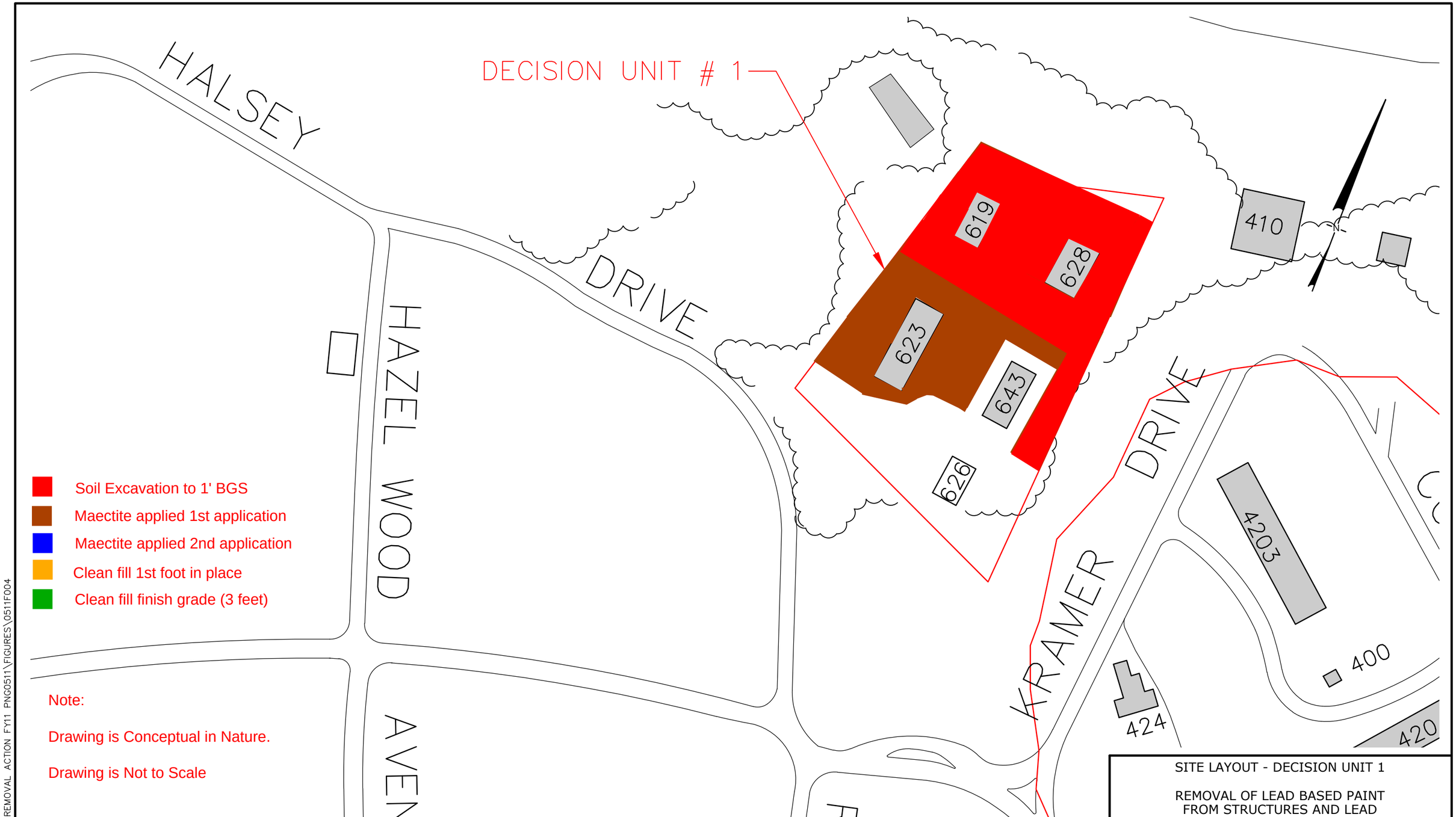
Photo 01: NWDE excavation of 1st foot of treated soil in DU1.

Photo 02: NWDE loading treated and excavated soil in to off road truck for hauling to the R-2 unit.

Photo 03: NWDE off road truck at wheel wash station exiting DU1, hauling treated soils to R-2 unit.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

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Daily Field Report

Date: Monday, August 20, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, temps upper 80s, rain night before, ground saturated during morning hours.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	10
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		2.8 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0745 –.NWDE Maectite crew (J. Stone, J. Ordaz, J. Smith, and C. Nelson) apply Maectite on west, south, and east sides of Bldg 643.

NWDE loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit and spreading and compaction of soils in the R-2 with the dozer.

0800 – C.Tyrrell begins gridding for MIS sample on west and south side of Bldg 619 footprint (Sample 619, Dup-13, and Dup-14 completed at 09:28).

0930 – NWDE J. Stone loading off road trucks with treated soils for hauling to R-2 unit from DU1 using excavator.

NWDE crew works to repair compressor on Maectite truck.

1000 – NWDE D. Leibelt, E. White, and C. Tyrrell join U.S.FWS Interim PM for weekly project conference call in U.S. FWS Midway Office.

1100 – NWDE Maectite crew (J. Ordaz, J. Smith, and C. Nelson begin 2nd Maectite application on northern portion of DU1.

NWDE soil excavation crew (J. Stone, and C. Nelson) excavate treated soils to a depth of 1 foot below grade on the south side of footprint for Bldg 643 in DU1 using mini excavator.

NWDE crew (D. Hard, A. Phillips, and S. Monear) to R-2 to pull back daily cover on western cell and smooth with tracked skid steer.

NWDE E. White and C. Tyrrell accompany U.S. FWS Interim PM to North Beach potential source area for borrow source estimates. Initial estimated average take approximately 2.5ft thick at beach edge to be graded back at an approximate 45º angle a distance of 100ft from one end of the beach near the fuel farm to the trash collection sign, west of the western borrow source area in a smooth manner to allow for monk seal and green sea turtle accessibility.

1200 – Lunch

1230 – NWDE Maectite crew (J. Stone, J. Ordaz J. Smith, and C. Nelson) continue 2nd Maectite application across the northern portion of DU1 and down west side of Bldg 619 footprint.

NWDE crew (D. Hard, A. Phillips, and S. Monear) to R-2 to pull back daily cover on western cell and smooth with tracked skid steer.

1400 – NWDE Maectite crew (J. Stone and J. Ordaz) mixing Maectite application using mini excavator to a depth of 1 foot below grade.

NWDE A. Phillips excavating treated soils to a depth of 1 foot below ground surface and stockpiling soils for hauling to R-2 unit using excavator.

NWDE (J. Smith and C. Nelson) loading Maectite container on to Maectite truck for immediate application in DU1.

1600 – NWDE J. Smith mixing in 2nd application of Maectite to a depth of 1 foot on west side of Bldg 619 footprint using mini excavator.

NWDE D. Hard mixing in 2nd Maectite application to a depth of 1 foot using excavator on south side of Bldg 619 footprint.

NWDE J. Ordaz and J. Smith apply 2nd Maectite treatment to soils on south side of Bldg 619 (prior to mixing occurring), and in between Bldg 619 and Bldg 628 footprints.

NWDE A. Phillips and C. Nelson excavating treated soils to a depth of 1 foot below grade on west side of Bldg 623 footprint and directly in to off road truck for hauling to R-2 unit using excavator.

1700 – NWDE J. Stone and C. Nelson excavate treated soils to a depth of 1 foot below grade in DU1 on the south side of Bldg 643 footprint using mini excavator.

NWDE A. Phillips loading treated soils in to off road trucks on west side of Bldg 623 footprint using excavator.

NWDE J. Ordaz and J. Smith continue 2nd Maectite application between Bldg 619 and Bldg 628 footprints, followed by mixing by D. Hard to 1 foot depth using excavator

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748
08/17/12	-	-	-	7208	902	6545	-	11748
08/18/12	-	-	-	7208	902	7447	-	11748
08/20/12	-	856	-	8064	396	7843	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/20/12	0	0	0	0
08/21/12				
08/22/12				
08/23/12				
08/24/12				
08/25/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavation of 1st foot of treated soil in DU1.

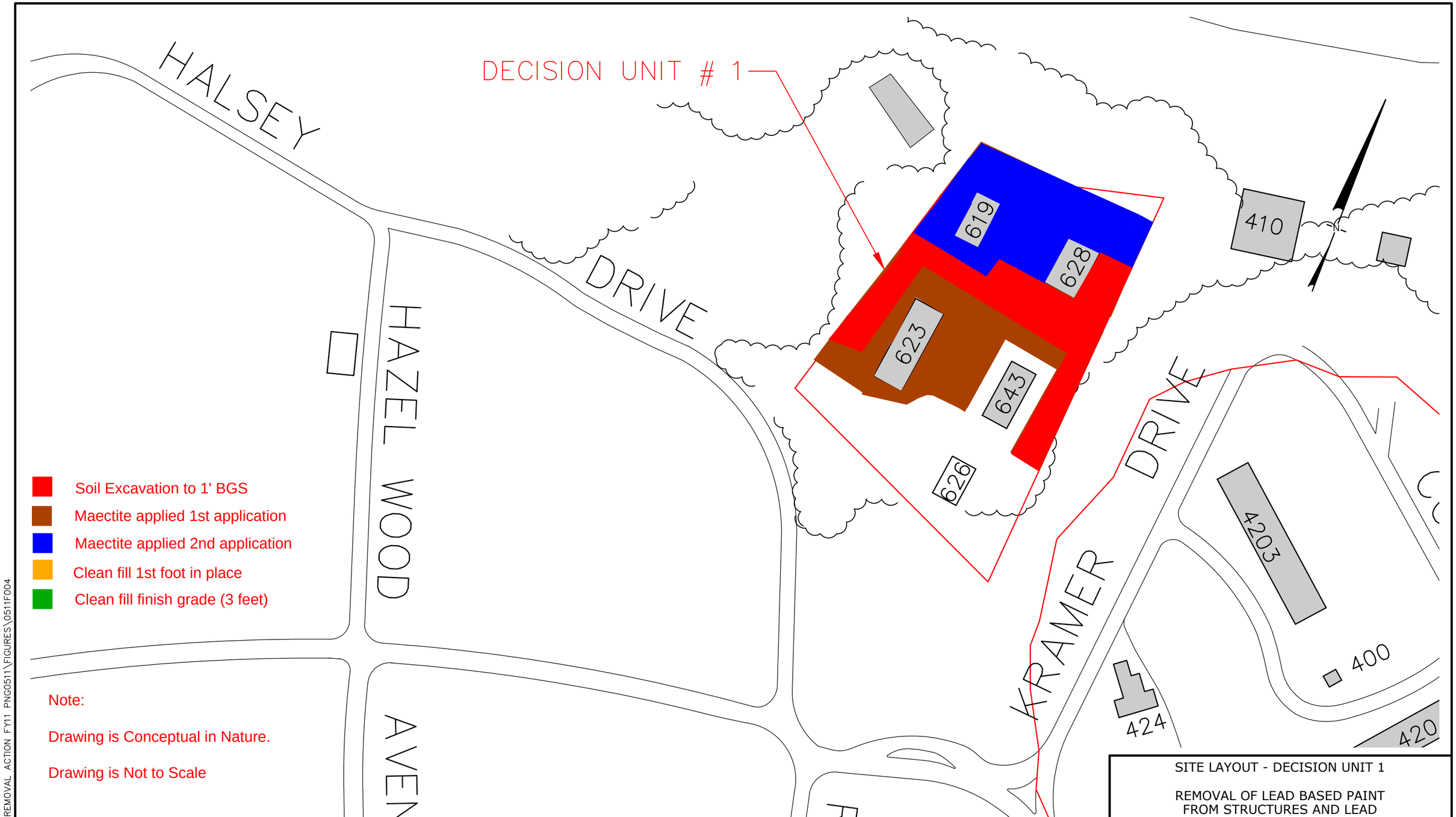
Photo 02: NWDE excavation and loading treated soil in to off road truck for hauling to the R-2 unit.

Photo 03: NWDE 2nd application of Maectite to soils in central portion of DU1.

Photo 04: NWDE mixing 2nd application of Maectite to a depth of 1 foot to soils in central portion of DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Tuesday, August 21, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, temps upper 80s.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	10
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		2.8 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	130 gallons	

Description of Work:

0650 – NWDE conducts safety meeting.

0715 –.NWDE Maectite crew (D. Hard, J. Stone, J. Ordaz, J. Smith, and C. Nelson) apply Maectite between Bldg 643 and Bldg 628 footprint, and mix using excavator between Bldg 619 and Bldg 628 footprints and using mini excavator on east side of Bldg 643.

NWDE Loading and hauling crew (A. Phillips and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit.

1000 – NWDE Loading and hauling crew continue loading and hauling treated soils from the south side of Bldg 643.

NWDE Maectite crew continues mixing 2nd Maectite application to a depth of 1 foot below grade on east side of Bldg 628 footprint with excavator. Mini excavator excavating treated soils on west side of Bldg 643 to a depth of 1 foot below grade, contract archeologist observing excavation. J. Ordaz and J. Smith continue 2nd Maectite application on east side of Bldg 628.

1145 – NWDE Maectite crew J. Stone and C. Nelson continue excavation of treated soils on south side of Bldg 643.

NWDE Loading and hauling crew continues excavation of soils to 1 foot below ground surface on northwest corner of Bldg 643 and hauling to R-2 unit.

NWDE D. Leibelt, E. White, D. Hard, J. Ordaz, and J. Smith laying shade cloth over completed portions of DU1.

1200 – Lunch

1230 – NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) continue excavation of treated soils on west side of Bldg 643 and hauling to R-2 unit with excavator and 2 off road trucks.

NWDE J. Ordaz and J. Smith continue laying shade cloth on north side of DU1.

NWDE Maectite crew (J. Stone and C. Nelson) excavating treated soils to a depth of 1 foot below grade on the south side of Bldg 643 using mini excavator.

1240 – Underground fuel tank discovered on south side of Bldg 643 approximately 15ft from the southwest building corner and 3.5ft south of the building pad. Tank appears to be of similar size to the last one uncovered near Bldg 628 (220 gal) and is full of liquid with a strong petroleum odor. Soils surrounding tank appeared to have petroleum staining. Tank surface only exposed, left in place and U.S. FWS Interim PM and DBSI notified to address issue.

1445 – NWDE J. Ordaz, J. Smith, and C. Nelson continue to lay shade cloth in northern portion of DU1. NWDE Loading and hauling crew continue to excavate and haul treated soils from DU1 to the R-2 unit using excavator and 2 off road trucks.

1515 – NWDE J. Ordaz, J. Smith, and C. Nelson switch tasks from laying shade cloth to begin 1st Maectite application around Bldg 626.

1700 – NWDE Maectite crew (D. Hard, J. Ordaz, J. Smith, and C. Nelson) have grid completed around Bldg 626 and have begun 1st Maectite application on west side of Bldg 626 and mixing with excavator.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748
08/17/12	-	-	-	7208	902	6545	-	11748
08/18/12	-	-	-	7208	902	7447	-	11748
08/20/12	-	856	-	8064	396	7843	-	11748
08/21/12	-	527	-	8591	616	8459	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/20/12	0	0	0	0
08/21/12	0	1	0	0
08/22/12				
08/23/12				
08/24/12				
08/25/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavation of 1st foot of treated soil in DU1.

Photo 02: NWDE excavation and loading treated soil in to off road truck for hauling to the R-2 unit.

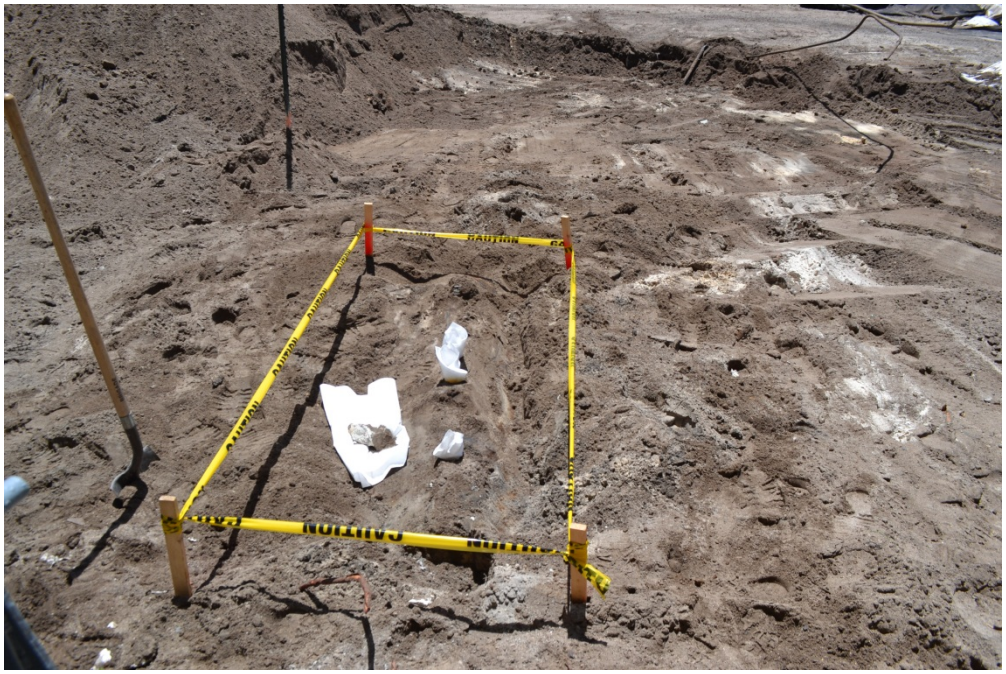
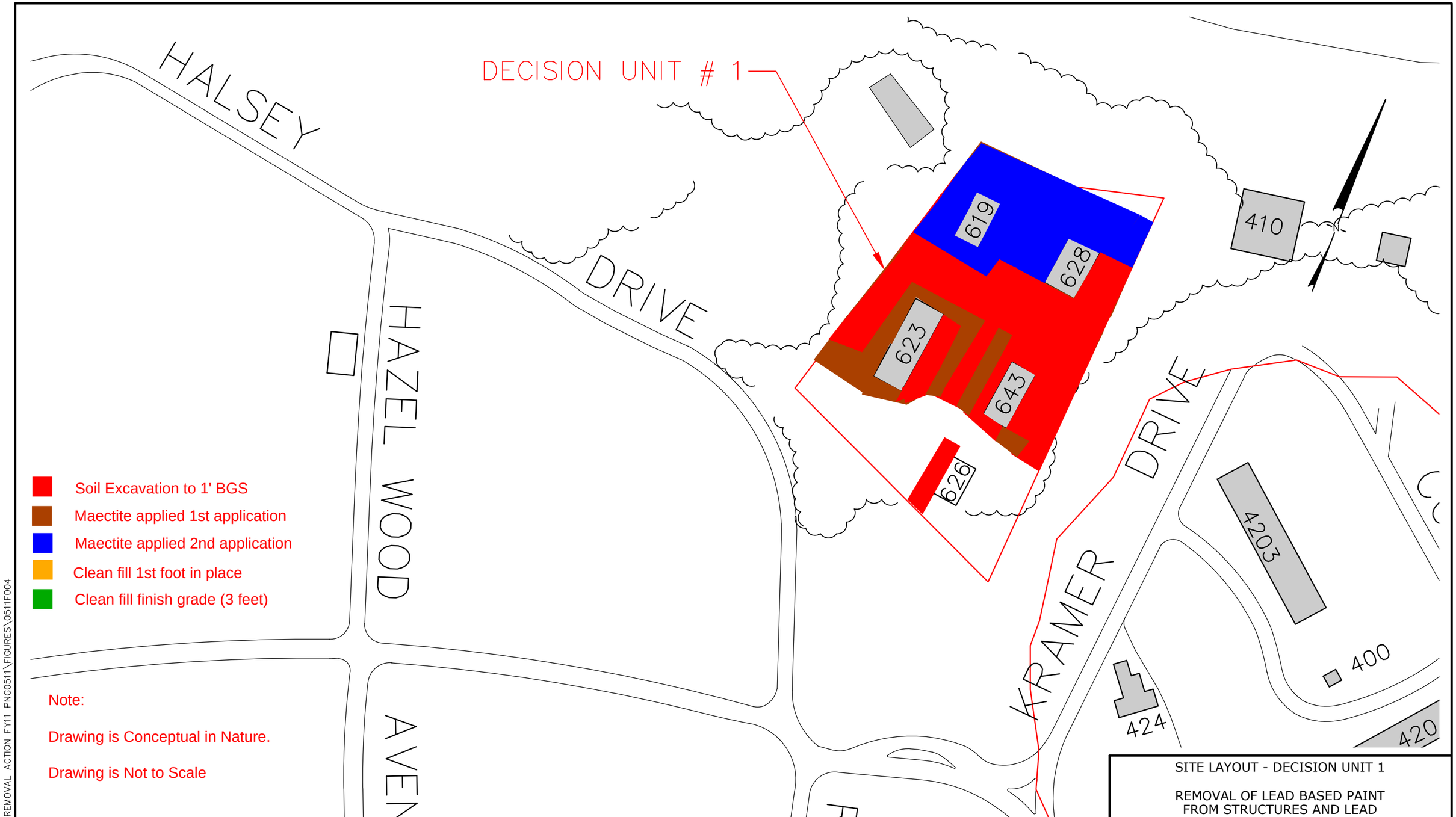


Photo 03: Underground fuel tank discovered south of Bldg 643.

Photo 04: NWDE mixing 1st application of Maectite to a depth of 1 foot around Bldg 626 footprint.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Wednesday, August 22, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps mid- to upper 80s.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	10
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0.6 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	169 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0715 –.NWDE Maectite crew (J. Stone, Ordaz, J. Smith, and C. Nelson) apply 1st Maectite application to soils on south side of Bldg 626 footprint and excavate around the southwest and southeast sides of Bldg 623 footprint using the mini excavator.

NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit.

0958 – NWDE D. Leibelt and C. Tyrrell complete MIS sampling of North Beach potential borrow source area.

1030 – NWDE Maectite crew (J. Stone and C. Nelson) excavates treated soils to a depth of 1 foot below grade on the west side of Bldg 626 footprint.

NWDE Loading and hauling crew continue loading and hauling treated soils from DU1 to the R-2 unit using excavator and 2 off road trucks.

NWDE J. Ordaz and J. Smith position and secure shade cloth witness layer on north end of DU1 using sandbags.

Bottle dump discovered on west side of Bldg 626. Contract archeologist notified (Feature 9)

1130 – Bottle dump discovered on southeast corner of Bldg 626 footprint. Contract archeologist notified (Feature 10).

1145 – NWDE J. Ordaz and J. Smith continue to position and secure shade cloth between Bldg 619 and Bldg 628 footprints.

NWDE Loading and hauling crew continue loading and hauling treated soils from DU1 to the R-2 unit using excavator and 2 off road trucks.

NWDE Maectite crew continues excavation of treated soils to a depth of 1 foot below grade using mini excavator on the east side of Bldg 626 footprint.

1200 – Lunch

1230 – NWDE J. Ordaz and J. Smith continue to position and secure shade cloth witness layer with 1 foot overlay on adjoining pieces between Bldg 619 and Bldg 628 footprints in the northern portion of DU1.

NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) continue loading and hauling treated soils from DU1 to the R-2 unit using excavator and 2 off road trucks.

NWDE Maectite crew (J. Stone and C. Nelson) continue excavation of treated soils to a depth of 1 foot below grade using mini excavator on the east side of Bldg 626 footprint.

1400 – NWDE Maectite crew excavates treated soils to a depth of 1 foot below grade on the south side of Bldg 626 footprint.

NWDE Loading and hauling crew continue to load and transport treated soils to the R-2 unit from DU1.

NWDE J. Ordaz and J. Smith continue to lay shade cloth witness layer on completed portions of DU1.

1500 – C. Tyrrell collects 3 aliquots for MEP sample from R-2 unit.

1515 – NWDE Loading and hauling crew continue to load using excavator and transport treated soils to the R-2 unit using 2 off road trucks.

NWDE J. Ordaz and J. Smith continue to lay shade cloth witness layer on completed portions of DU1.

NWDE Maectite crew excavates treated soils to a depth of 1 foot below grade on the east side of Bldg 626 footprint.

1702 – C. Tyrrell completes MIS sampling of Bldg 643 footprint (Sample ID: 643, Dup-15, and Dup-16).

1710 – NWDE Loading and hauling crew continue to load and transport treated soils to the R-2 unit using excavator and 2 off road trucks.

NWDE Maectite crew continues excavation down to a depth of 1 foot below grade on the southwest side of Bldg 623 footprint using mini excavator.

NWDE J. Ordaz and J. Smith continue to position and secure shade cloth witness layer with 1 foot overlay on adjoining pieces in northern portions of DU1.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3766	572	4048	-	0
07/22/12	-	-	-	3766	-	4048	-	0
07/23/12	-	-	28	3794	385	4433	-	0
07/24/12	21	-	-	3815	220	4653	-	0
07/25/12	264	-	8	4087	-	4653	-	0
07/26/12	532	-	10	4629	-	4653	-	0
07/27/12	352	-	8	4989	-	4653	374	374
07/28/12	37	-	18	5044	66	4719	-	374
07/30/12	63	-	-	5107	132	4851	792	1166
07/31/12	40	-	-	5147	22	4873	1606	2772
08/01/12	-	-	-	5147	-	4873	1540	4312
08/02/12	-	-	-	5147	-	4873	1320	5632
08/03/12	-	-	-	5147	-	4873	1958	7590
08/04/12	-	-	-	5147	-	4873	66	7656
08/06/12	-	-	-	5147	-	4873	-	7656
08/07/12	-	394	-	5541	-	4873	-	7656
08/08/12	-	606	-	6147	-	4873	-	7656
08/09/12	-	584	-	6731	-	4873	572	8228
08/10/12	-	477	-	7208	-	4873	1144	9372
08/11/12	-	-	-	7208	-	4873	660	10032
08/13/12	-	-	-	7208	-	4873	1716	11748
08/14/12	-	-	-	7208	-	4873	-	11748
08/15/12	-	-	-	7208	-	4873	-	11748
08/16/12	-	-	-	7208	770	5643	-	11748
08/17/12	-	-	-	7208	902	6545	-	11748
08/18/12	-	-	-	7208	902	7447	-	11748
08/20/12	-	856	-	8064	396	7843	-	11748
08/21/12	-	527	-	8591	616	8459	-	11748
08/22/12	-	293	-	8884	968	9427	-	11748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/20/12	0	0	0	0
08/21/12	0	1	0	0
08/22/12	0	0	0	0
08/23/12				
08/24/12				
08/25/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

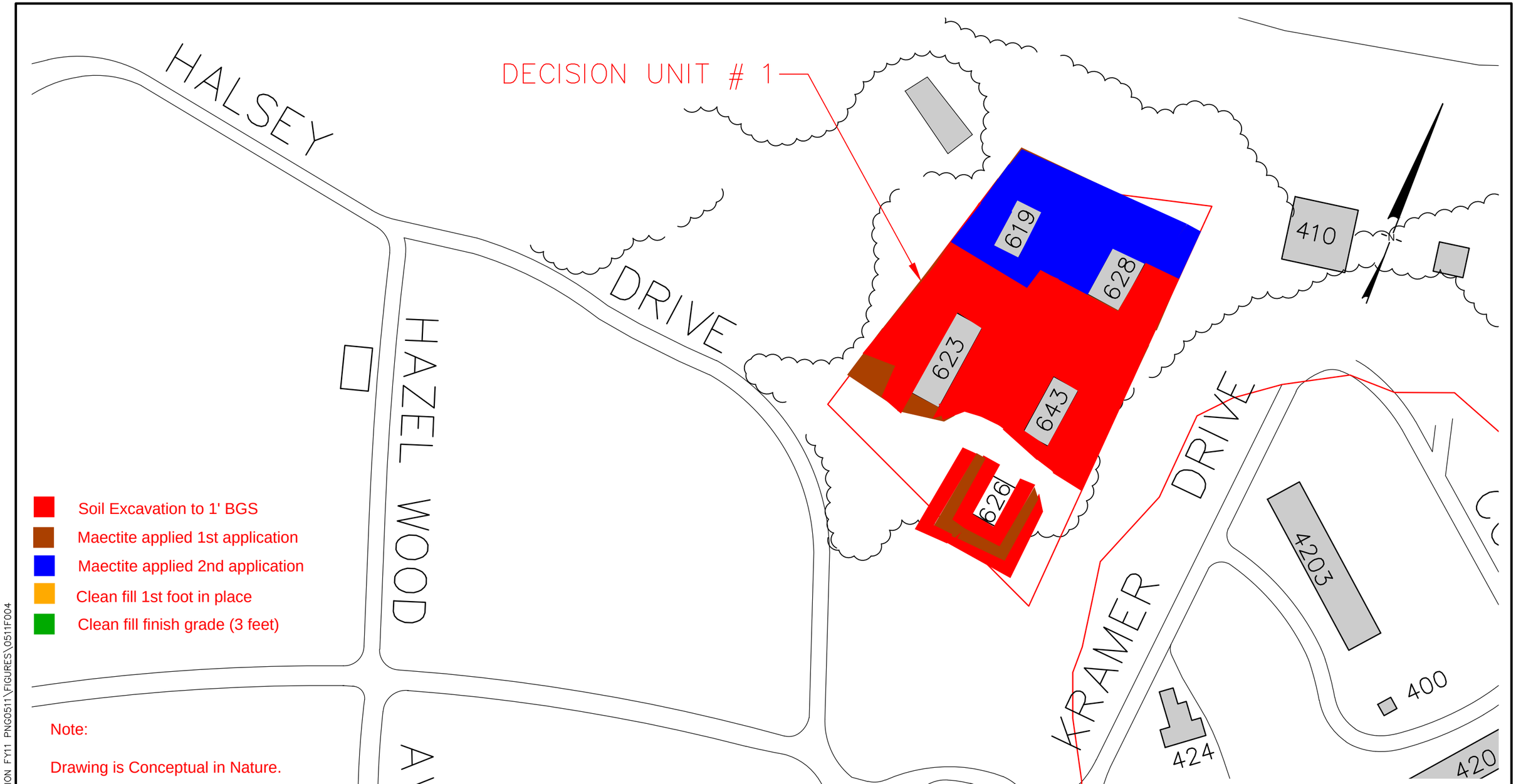
Photo 01: NWDE prepares to load off road truck with treated soils from DU1.

Photo 02: NWDE excavation of treated soil down to 1 foot below grade.

Photo 03: NWDE Excavation of treated soils on south side of Bldg 623 footprint.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, August 23, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s.

Personnel:

Name	Company	Site Hours
Darin Leibelt	NWDE PM	4
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	6
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Rich Nees	U.S. FWS Project Contract Archeologist
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		5.7 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 –.NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit.

NWDE Maectite crew (J. Stone, Ordaz, J. Smith, and C. Nelson) prepare for 2nd Maectite application to soils around Bldg 643 and excavate around the east sides of Bldg 623 footprint using the mini excavator.

C. Tyrrell readies North Beach borrow source sample (Sample ID: B3082212) for transport on charter flight and submission to lab for analysis.

0950 – NWDE Maectite crew (J. Stone, Ordaz, J. Smith, and C. Nelson) apply 2nd Maectite application to soils and mixing to a depth of 1 foot below grade with the mini excavator on the north side of Bldg 643.

NWDE Loading and hauling crew continue load and transport treated soils using excavator and off road truck. D. Hard smoothing and compacting soils in the R-2 unit with dozer.

1100 – NWDE M. Saiki returns to project site and joins loading and hauling crew driving one of the off road trucks.

NWDE D. Leibelt returns to Honolulu on charter flight with soil sample.

1150 – NWDE Maectite crew treating soils with 2nd Maectite application and mixing to a depth of 1 foot below grade on the east side of Bldg 643.

NWDE Loading and hauling crew (D. Hard, A. Phillips, M. Saiki and S. Monear) using excavator to load off road trucks with treated soil from DU1 for transport to R-2 unit where placed and compacted using dozer.

1200 – Lunch

1230 – NWDE Maectite crew (J. Stone, J. Ordaz, J. Smith and C. Nelson) continue treating soils with 2nd Maectite application and mixing to a depth of 1 foot below grade on the east side of Bldg 643 using mini excavator.

NWDE Loading and hauling crew (D. Hard, A. Phillips, M. Saiki and S. Monear) continue to load off road trucks with treated soil from DU1 for transport to R-2 unit for placement and compaction using dozer.

1430 – NWDE J. Ordaz and J. Smith position and secure shade cloth witness layer with 1 foot overlay on adjoining pieces in the northern portion of DU1.

NWDE Loading and hauling crew (D. Hard, A. Phillips, M. Saiki and S. Monear) continue excavating and loading treated soils and hauling treated soils from DU1 to the R-2 unit using excavator and 2 off road trucks.

NWDE J. Stone loads off road truck with metal debris on the southeast corner of Bldg 623 footprint.

1630 – C. Tyrrell completes MIS sampling of Bldg 623 footprint (Sample ID: 623, Dup-19, and Dup-20).

NWDE J. Ordaz, J. Stone, J. Smith, and C. Nelson continue to position and secure shade cloth witness layer with 1 foot overlay on adjoining pieces in northern portions of DU1.

NWDE Loading and hauling crew continue to load off road trucks from the east side of Bldg 626 footprint and transport treated soils to R-2 unit for placement and compaction using excavator, 2 off road trucks, and dozer.

1730 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3,766	572	4,048	-	0
07/22/12	-	-	-	3,766	-	4,048	-	0
07/23/12	-	-	28	3,794	385	4,433	-	0
07/24/12	21	-	-	3,815	220	4,653	-	0
07/25/12	264	-	8	4,087	-	4,653	-	0
07/26/12	532	-	10	4,629	-	4,653	-	0
07/27/12	352	-	8	4,989	-	4,653	374	374
07/28/12	37	-	18	5,044	66	4,719	-	374
07/30/12	63	-	-	5,107	132	4,851	792	1,166
07/31/12	40	-	-	5,147	22	4,873	1606	2,772
08/01/12	-	-	-	5,147	-	4,873	1540	4,312
08/02/12	-	-	-	5,147	-	4,873	1320	5,632
08/03/12	-	-	-	5,147	-	4,873	1958	7,590
08/04/12	-	-	-	5,147	-	4,873	66	7,656
08/06/12	-	-	-	5,147	-	4,873	-	7,656
08/07/12	-	394	-	5,541	-	4,873	-	7,656
08/08/12	-	606	-	6,147	-	4,873	-	7,656
08/09/12	-	584	-	6,731	-	4,873	572	8,228
08/10/12	-	477	-	7,208	-	4,873	1144	9,372
08/11/12	-	-	-	7,208	-	4,873	660	10,032
08/13/12	-	-	-	7,208	-	4,873	1716	11,748
08/14/12	-	-	-	7,208	-	4,873	-	11,748
08/15/12	-	-	-	7,208	-	4,873	-	11,748
08/16/12	-	-	-	7,208	770	5,643	-	11,748
08/17/12	-	-	-	7,208	902	6,545	-	11,748
08/18/12	-	-	-	7,208	902	7,447	-	11,748
08/20/12	-	856	-	8,064	396	7,843	-	11,748
08/21/12	-	527	-	8,591	616	8,459	-	11,748
08/22/12	-	293	-	8,884	968	9,427	-	11,748
08/23/12	-	539	-	9,423	616	10,043	-	11,748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/20/12	0	0	0	0
08/21/12	0	1	0	0
08/22/12	0	0	0	0
08/23/12	0	0	2	0
08/24/12				
08/25/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

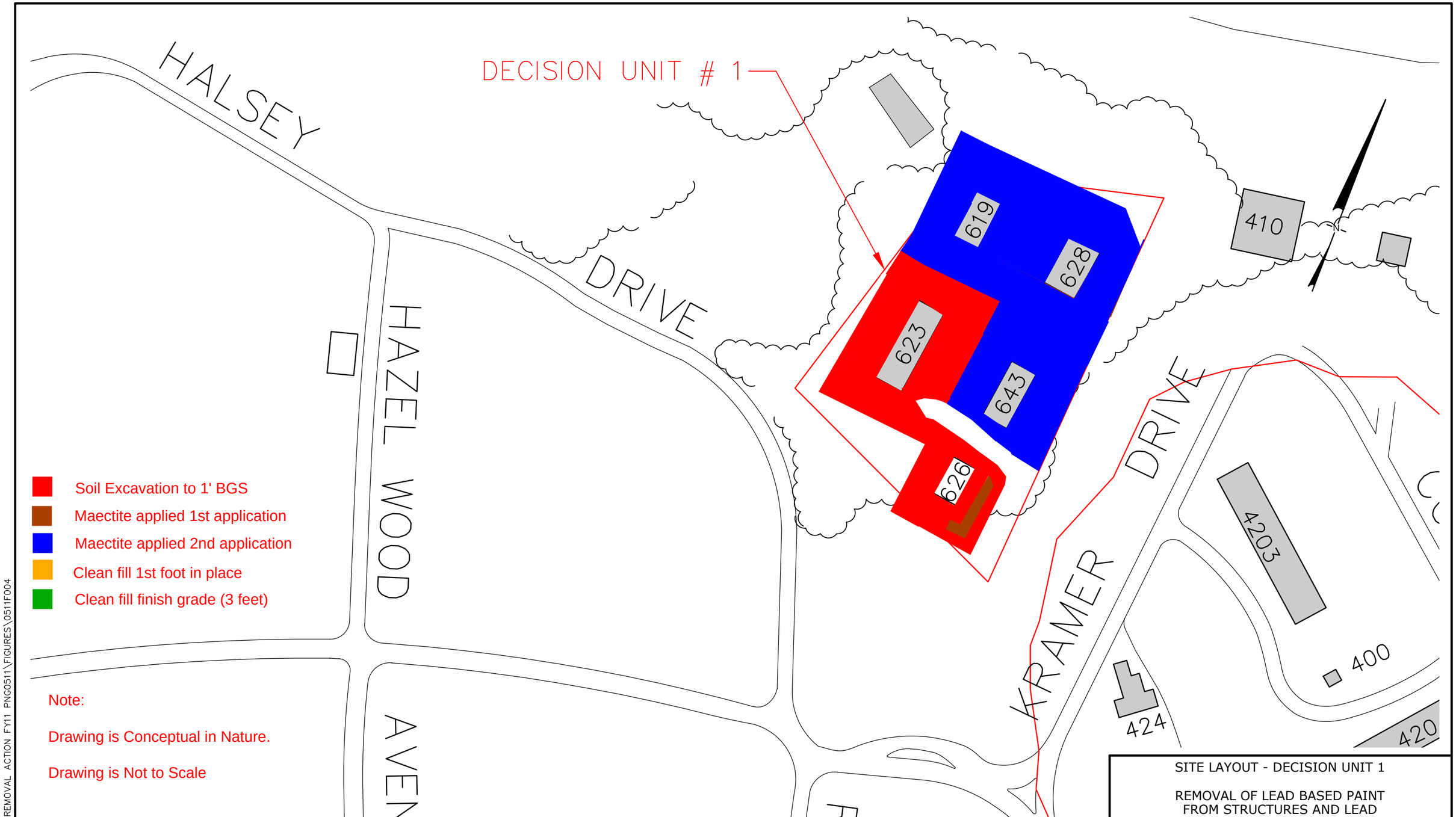
Photographs:

Photo 01: NWDE 2nd Maectite application and mixing in the central portion of DU1.

Photo 02: NWDE loading treated soils in to off road truck to haul to R-2 unit.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Friday, August 24, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s, scattered rain showers.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	8.5
Everett White	NWDE Super	8.5
Alan Phillips	NWDE Operator	8.5
Dave Hard	NWDE Operator	8.5
Mike Saiki	NWDE Operator	8.5
Jose Ordaz	NWDE Operator	8.5
Jevon Stone	NWDE Operator	8.5
Sean Monear	NWDE Operator	8.5
Joel Smith	NWDE Laborer	8.5
Christian Nelson	NWDE Laborer	8.5

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		1.5 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 –.NWDE Loading and hauling crew (D. Hard, A. Phillips, and S. Monear) using excavator to load off road trucks with treated soil from DU1 on the east side of Bldg 626 footprint for transport to R-2 unit.

NWDE Maectite crew (J. Stone, Ordaz, J. Smith, and C. Nelson) lay out grid in preparation for 2nd Maectite application to soils around Bldg 623 footprint.

0900 – NWDE Loading and hauling crew continue to haul treated soils from DU1 to R-2 unit.

NWDE Maectite crew prepare for 2nd Maectite application to soils around Bldg 623 footprint.

0930 – NWDE Maectite crew begins 2nd Maectite application and mixing on the east side of Bldg 623 footprint.

NWDE A. Phillips levels out east side of Bldg 626 footprint after treated soils have been removed.

1000 – NWDE D. Hard returns from R-2 and begins positioning and securing shade cloth witness layer with a 1 foot overlap on adjoining pieces in DU1.

1030 – NWDE hauling of treated soils from DU1 complete.

1045 – NWDE breaks water line on northern side of Bldg 623 footprint. Appropriate personnel are notified and leak is fixed soon after.

1100 – NWDE Maectite crew (J. Stone, Ordaz, J. Smith, and C. Nelson) continue 2nd Maectite application to soils and mixing to a depth of 1 foot below grade with the mini excavator on the west side of Bldg 623 footprint.

1156 – C. Tyrrell completes MIS sampling of Bldg 626 footprint (Sample ID: 626, Dup-21, and Dup-22).

1200 – Lunch

1230 - NWDE J. Stone continues mixing 2nd Maectite application to a depth of 1 foot below grade on the south side of Bldg 623 using mini excavator.

NWDE D. Hard, S. Monear, M. Saiki, C. Nelson, and J. Smith position and secure shade cloth witness layer around Bldg 643.

1315 – C. Tyrrell meets with U.S. FWS Interim PM regarding potential borrow source sample results – DDE and DDT concentrations and potential suitability issues.

1500 – NWDE E. White and C. Tyrrell meet with U.S. FWS Interim PM regarding borrow sample results, project schedule impacts, and demolition of the Ski Warehouse next week.

1600 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3,766	572	4,048	-	0
07/22/12	-	-	-	3,766	-	4,048	-	0
07/23/12	-	-	28	3,794	385	4,433	-	0
07/24/12	21	-	-	3,815	220	4,653	-	0
07/25/12	264	-	8	4,087	-	4,653	-	0
07/26/12	532	-	10	4,629	-	4,653	-	0
07/27/12	352	-	8	4,989	-	4,653	374	374
07/28/12	37	-	18	5,044	66	4,719	-	374
07/30/12	63	-	-	5,107	132	4,851	792	1,166
07/31/12	40	-	-	5,147	22	4,873	1606	2,772
08/01/12	-	-	-	5,147	-	4,873	1540	4,312
08/02/12	-	-	-	5,147	-	4,873	1320	5,632
08/03/12	-	-	-	5,147	-	4,873	1958	7,590
08/04/12	-	-	-	5,147	-	4,873	66	7,656
08/06/12	-	-	-	5,147	-	4,873	-	7,656
08/07/12	-	394	-	5,541	-	4,873	-	7,656
08/08/12	-	606	-	6,147	-	4,873	-	7,656
08/09/12	-	584	-	6,731	-	4,873	572	8,228
08/10/12	-	477	-	7,208	-	4,873	1144	9,372
08/11/12	-	-	-	7,208	-	4,873	660	10,032
08/13/12	-	-	-	7,208	-	4,873	1716	11,748
08/14/12	-	-	-	7,208	-	4,873	-	11,748
08/15/12	-	-	-	7,208	-	4,873	-	11,748
08/16/12	-	-	-	7,208	770	5,643	-	11,748
08/17/12	-	-	-	7,208	902	6,545	-	11,748
08/18/12	-	-	-	7,208	902	7,447	-	11,748
08/20/12	-	856	-	8,064	396	7,843	-	11,748
08/21/12	-	527	-	8,591	616	8,459	-	11,748
08/22/12	-	293	-	8,884	968	9,427	-	11,748
08/23/12	-	539	-	9,423	616	10,043	-	11,748
08/24/12	-	617	-	10,040	176	10,219	-	11,748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads
08/20/12	0	0	0	0
08/21/12	0	1	0	0
08/22/12	0	0	0	0
08/23/12	0	0	2	0
08/24/12	0	0	0	0
08/25/12				

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

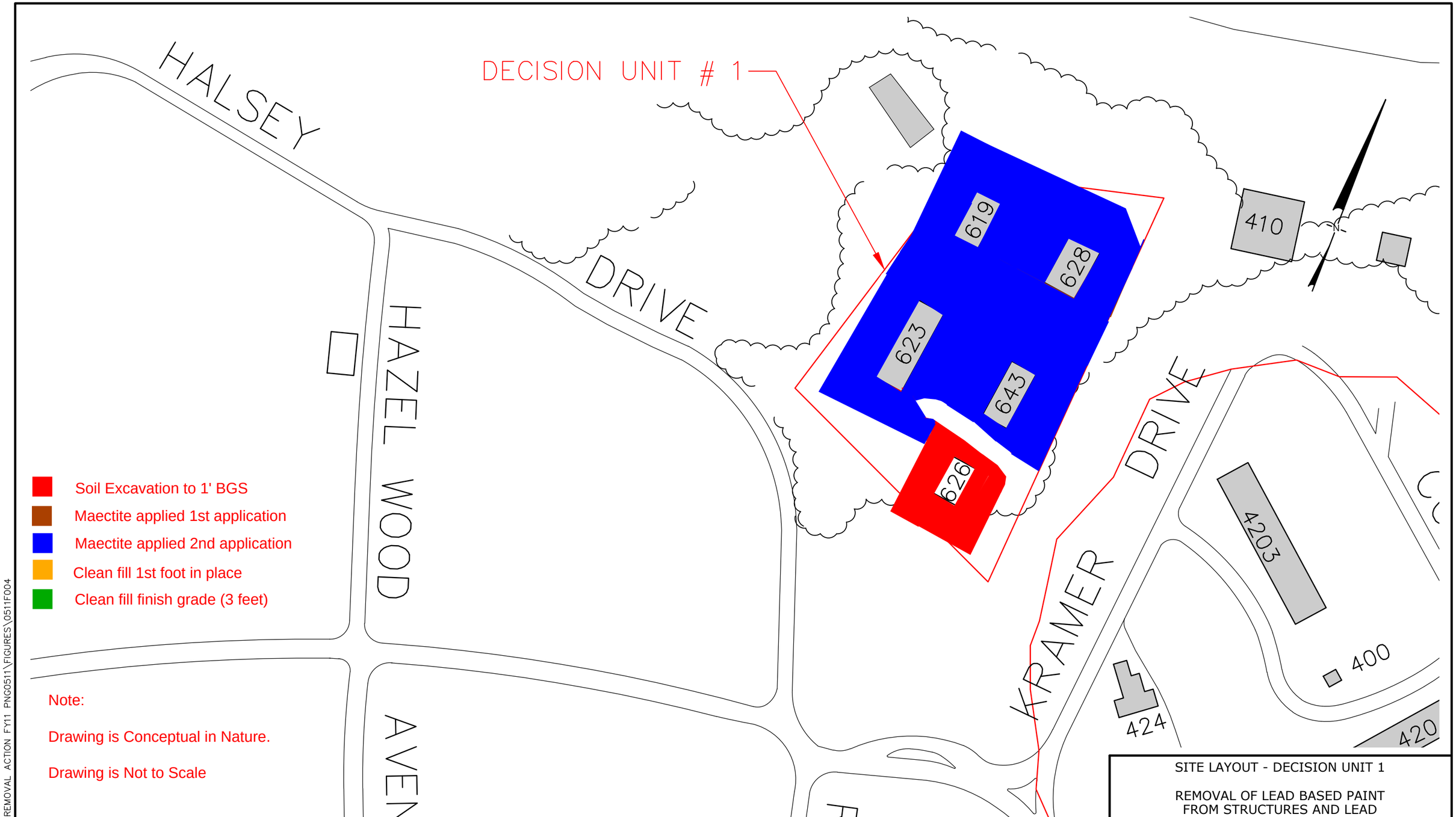
Photo 01: NWDE loading treated soils in to off road truck for transport to R-2 unit.

Photo 02: NWDE 2nd Maectite application and mixing on west side of Bldg 623 footprint.

Photo 03: Shade cloth witness layer progress on northern portion of DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 25, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	5
Dave Hard	NWDE Operator	5
Mike Saiki	NWDE Operator	5
Jose Ordaz	NWDE Operator	5
Jevon Stone	NWDE Operator	5
Sean Monear	NWDE Operator	5
Joel Smith	NWDE Laborer	5
Christian Nelson	NWDE Laborer	5

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0615 – C. Tyrrell collects 2 aliquots for MEP sample from R-2 unit.

0700 –.NWDE conducts safety meeting.

0720 –.NWDE entire crew (D. Hard, A. Phillips, M. Saiki, J. Ordaz, J. Stone, S. Monear, J. Smith, and C. Nelson) positions and secures shade cloth witness layer with a 1 foot overlap on adjoining pieces in completed portions DU1.

0840 – NWDE J. Stone assists contract archeologist in skimming off overburden for bottle dump areas surrounding Bldg 626 footprint.

1030 – NWDE cleans off excavator tracks to minimize potential for cross-contamination of clean areas and moves excavator outside DU1 boundary.

Shade cloth witness layer is almost complete for the portions of DU1 that have been treated. Additional pieces will need to be brought in to finish patching. This will be done in conjunction with covering the area surrounding Bldg 626 footprint on Monday.

1100 – NWDE crew cleans up site and disposes of trash and prepares/stores oil filters in 55 gallon drum as per DBSI Environmental requirements for disposal submission.

1200 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3,766	572	4,048	-	0
07/22/12	-	-	-	3,766	-	4,048	-	0
07/23/12	-	-	28	3,794	385	4,433	-	0
07/24/12	21	-	-	3,815	220	4,653	-	0
07/25/12	264	-	8	4,087	-	4,653	-	0
07/26/12	532	-	10	4,629	-	4,653	-	0
07/27/12	352	-	8	4,989	-	4,653	374	374
07/28/12	37	-	18	5,044	66	4,719	-	374
07/30/12	63	-	-	5,107	132	4,851	792	1,166
07/31/12	40	-	-	5,147	22	4,873	1606	2,772
08/01/12	-	-	-	5,147	-	4,873	1540	4,312
08/02/12	-	-	-	5,147	-	4,873	1320	5,632
08/03/12	-	-	-	5,147	-	4,873	1958	7,590
08/04/12	-	-	-	5,147	-	4,873	66	7,656
08/06/12	-	-	-	5,147	-	4,873	-	7,656
08/07/12	-	394	-	5,541	-	4,873	-	7,656
08/08/12	-	606	-	6,147	-	4,873	-	7,656
08/09/12	-	584	-	6,731	-	4,873	572	8,228
08/10/12	-	477	-	7,208	-	4,873	1144	9,372
08/11/12	-	-	-	7,208	-	4,873	660	10,032
08/13/12	-	-	-	7,208	-	4,873	1716	11,748
08/14/12	-	-	-	7,208	-	4,873	-	11,748
08/15/12	-	-	-	7,208	-	4,873	-	11,748
08/16/12	-	-	-	7,208	770	5,643	-	11,748
08/17/12	-	-	-	7,208	902	6,545	-	11,748
08/18/12	-	-	-	7,208	902	7,447	-	11,748
08/20/12	-	856	-	8,064	396	7,843	-	11,748
08/21/12	-	527	-	8,591	616	8,459	-	11,748
08/22/12	-	293	-	8,884	968	9,427	-	11,748
08/23/12	-	539	-	9,423	616	10,043	-	11,748
08/24/12	-	617	-	10,040	176	10,219	-	11,748
08/25/12	-	-	-	10,040	-	10,219	-	11,748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/20/12	0	0	0	0	0
08/21/12	0	1	0	0	0
08/22/12	0	0	0	0	0
08/23/12	0	0	2	0	0
08/24/12	0	0	0	0	0
08/25/12	0	0	0	0	1

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: Current level of treated soils and materials in R-2 western and northern cells.

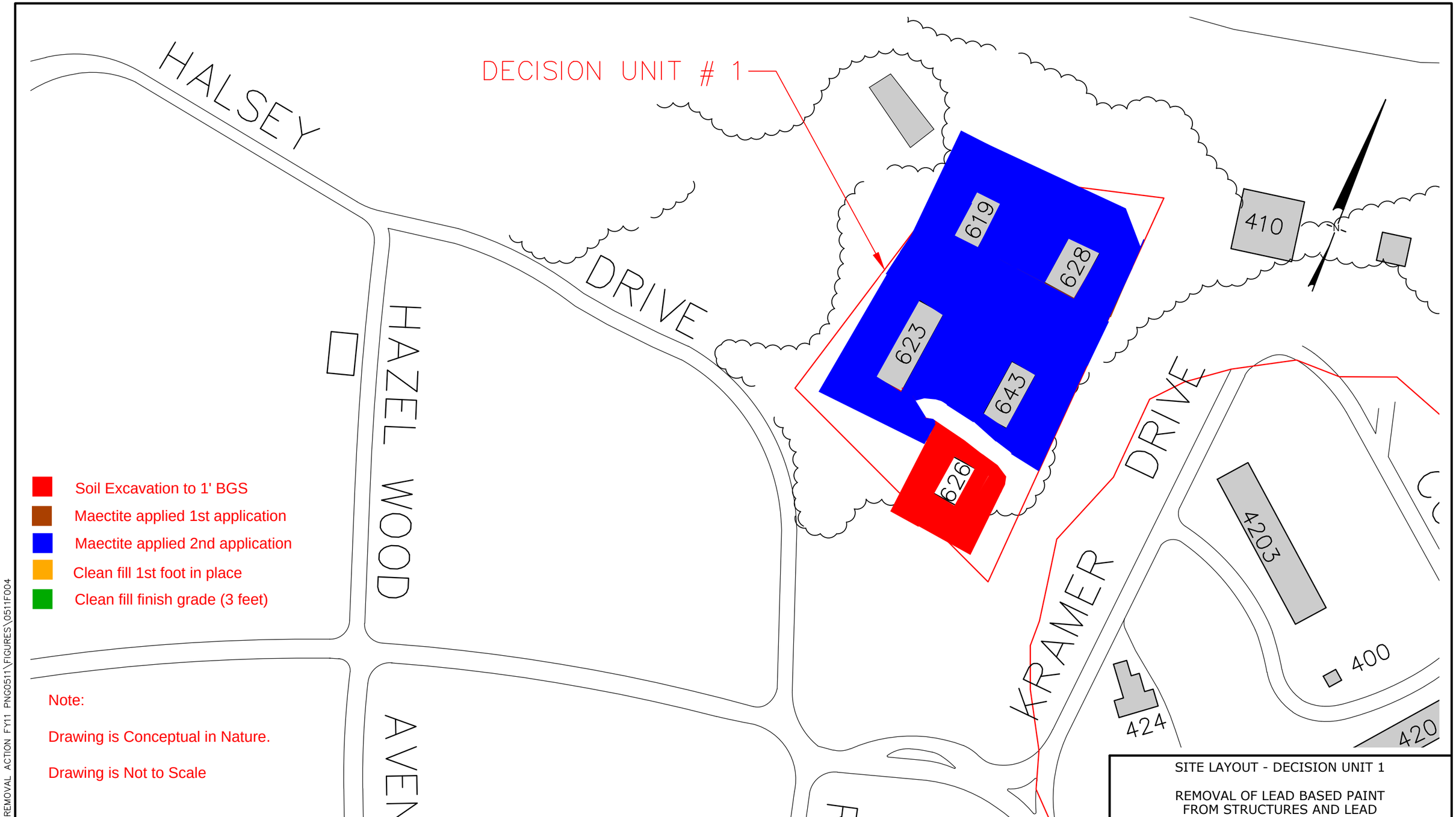
Photo 02: NWDE positioning and securing shade cloth witness layer in DU1.

Photo 03: Shade cloth witness layer progress in DU1.

Photo 03: Feature 10 bottle dump partially excavated near southeast corner of Bldg 626 footprint by U.S. FWS project contract archeologist, Keola Nakamura.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

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Daily Field Report

Date: Monday, August 27, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	8
Everett White	NWDE Super	8
Alan Phillips	NWDE Operator	8
Dave Hard	NWDE Operator	8
Mike Saiki	NWDE Operator	8
Jose Ordaz	NWDE Operator	8
Jevon Stone	NWDE Operator	8
Sean Monear	NWDE Operator	8
Joel Smith	NWDE Laborer	8
Christian Nelson	NWDE Laborer	8

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 –.NWDE conducts safety meeting. U.S. FWS contract archeologist approves moving forward with soil treatment surrounding Bldg 626 as his work in the area is completed.

0730 –.NWDE Maectite crew (J. Ordaz, J. Stone, J. Smith, and C. Nelson) smooth out the excavated area surrounding Bldg 626 to provide even grade for Maectite application using mini excavator. Crew lays out application grid surrounding Bldg 626 footprint in preparation for 2nd Maectite application.

NWDE M. Saiki cleans up edges surrounding Bldg 626 footprint area using tracked skid steer.

NWDE Shade cloth crew (D. Hard, A. Phillips, and S. Monear) position and secure shade cloth witness barrier with a 1 foot overlay on adjoining pieces in the southern portion of DU1.

0830 – NWDE Maectite crew begins 2nd Maectite application on soils on the west side of Bldg 626 footprint.

NWDE crew (D. Hard, A. Phillips, M. Saiki, and S. Monear) preparing R-2 for daily cover using tracked skid steer.

1000 – NWDE E. White and C. Tyrrell attend weekly project conference call at the U.S. FWS Midway Office with FWS Interim PM.

1040 – NWDE Maectite crew continues mixing in 2nd Maectite application to a depth of 1 foot below grade using mini excavator around Bldg 626 footprint and position shade cloth on completed portions in the southern part of DU1.

1200 – Lunch.

1230 – NWDE Maectite crew (J. Ordaz, J. Stone, J. Smith, and C. Nelson) position shade cloth around Bldg 626 footprint.

NWDE crew (D. Hard, A. Phillips, M. Saiki, and S. Monear) prepare north cell using tracked skid steer and work to cover and secure with sandbags.

1400 – North cell of R-2 unit daily cover in place and secured with sandbags.

NWDE Maectite crew complete positioning shade cloth around Bldg 626 footprint and clean up Maectite work area in DU1.

1445 – NWDE entire crew at conex to clean rigs and perform routine maintenance.

1530 – End of day.

Table 1. Maectite, Treated Soil, and Clean Backfill Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]		Clean Backfill Totals[2]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)	Excavated and Placed Today in DU6 (cyd)	Total to Date in DU6 (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)					
07/21/12	-	-	9	3,766	572	4,048	-	0
07/22/12	-	-	-	3,766	-	4,048	-	0
07/23/12	-	-	28	3,794	385	4,433	-	0
07/24/12	21	-	-	3,815	220	4,653	-	0
07/25/12	264	-	8	4,087	-	4,653	-	0
07/26/12	532	-	10	4,629	-	4,653	-	0
07/27/12	352	-	8	4,989	-	4,653	374	374
07/28/12	37	-	18	5,044	66	4,719	-	374
07/30/12	63	-	-	5,107	132	4,851	792	1,166
07/31/12	40	-	-	5,147	22	4,873	1606	2,772
08/01/12	-	-	-	5,147	-	4,873	1540	4,312
08/02/12	-	-	-	5,147	-	4,873	1320	5,632
08/03/12	-	-	-	5,147	-	4,873	1958	7,590
08/04/12	-	-	-	5,147	-	4,873	66	7,656
08/06/12	-	-	-	5,147	-	4,873	-	7,656
08/07/12	-	394	-	5,541	-	4,873	-	7,656
08/08/12	-	606	-	6,147	-	4,873	-	7,656
08/09/12	-	584	-	6,731	-	4,873	572	8,228
08/10/12	-	477	-	7,208	-	4,873	1144	9,372
08/11/12	-	-	-	7,208	-	4,873	660	10,032
08/13/12	-	-	-	7,208	-	4,873	1716	11,748
08/14/12	-	-	-	7,208	-	4,873	-	11,748
08/15/12	-	-	-	7,208	-	4,873	-	11,748
08/16/12	-	-	-	7,208	770	5,643	-	11,748
08/17/12	-	-	-	7,208	902	6,545	-	11,748
08/18/12	-	-	-	7,208	902	7,447	-	11,748
08/20/12	-	856	-	8,064	396	7,843	-	11,748
08/21/12	-	527	-	8,591	616	8,459	-	11,748
08/22/12	-	293	-	8,884	968	9,427	-	11,748
08/23/12	-	539	-	9,423	616	10,043	-	11,748
08/24/12	-	617	-	10,040	176	10,219	-	11,748
08/25/12	-	-	-	10,040	-	10,219	-	11,748
08/27/12	-	365	-	10,405	-	10,219	-	11,748

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12					
08/29/12					
08/30/12					
08/31/12					
09/01/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE 2nd application of Maectite and mixing around Bldg 626 footprint.

Photo 02: NWDE daily cover secured over northern cell in R-2 unit.

Photo 03: NWDE daily cover secured over northern cell in R-2 unit.

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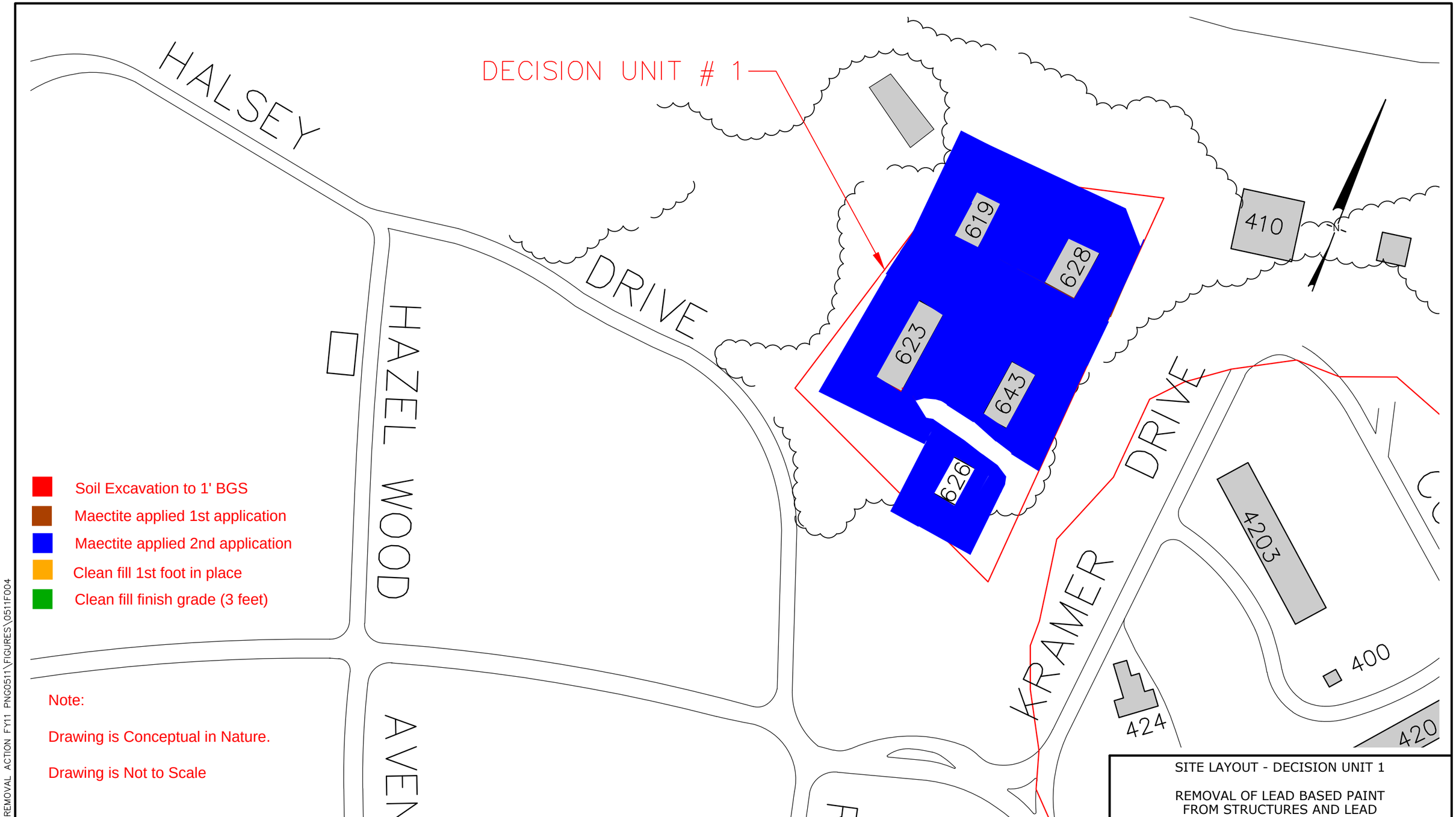
Photo 04: NWDE shade cloth cover progress surrounding Bldg 626 footprint.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Tuesday, August 28, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	376.5 gallons	

Description of Work:

0700 –.NWDE conducts safety meeting.

0800 –.NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) move to clean borrow source area between cargo pier and fuel pier to skim off additional sand that has accumulated on the beach since the last excavation using excavator and 2 off road trucks. U.S. FWS Interim PM instructs crew to excavate sand down to a depth of 1 foot above visibly impacted sand zone for use as clean borrow source material.

NWDE Backfill placement crew (A. Philips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) begin spreading and placement of clean sand backfill in DU1 using mini-excavator, tracked skid steer beginning on the east side of Bldg 626 footprint, and cleaning off the excavator rake that was used for mixing Maectite in DU1.

1000 – NWDE Excavation and hauling crew excavate additional sand from clean borrow source area between the cargo pier and fuel pier and hauling to southern portion of DU1.

NWDE Backfill placement crew continues spreading and placement of backfill on east side of Bldg 626 footprint and cleaning off the excavator rake.

1145 – NWDE Excavation and hauling crew excavate and load clean sand backfill from clean borrow source area between the cargo pier and fuel pier and haul to DU1 using excavator and 2 off road trucks.

NWDE Backfill placement crew continues spreading and placement of backfill on east side and south sides of Bldg 626 footprint using mini excavator, tracked skid steer, and hand tools.

1200 – Lunch.

1230 - NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) excavate and load clean sand backfill from borrow source area between the cargo pier and fuel pier and haul to DU1 using excavator and 2 off road trucks.

NWDE Backfill placement crew (A. Philips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) spread and place clean sand backfill on east side and south sides of Bldg 626 footprint using mini excavator, tracked skid steer, and hand tools.

1400 – NWDE Excavation and hauling crew continue to load sand from borrow source area and haul for placement in DU1.

NWDE Backfill placement crew work to spread and place first foot of clean sand backfill over shade cloth witness layer in southern areas of DU1.

1700 – NWDE Excavation and hauling crew continue to excavate, load, and haul sand from the clean sand borrow source area between the cargo pier and the fuel pier for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE Backfill placement crew continues to spread and place first foot of clean sand backfill in DU1 on east side of Bldg 643. First foot completed around Bldg 626 footprint.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12	0	0	0	0	0
08/29/12					
08/30/12					
08/31/12					
09/01/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

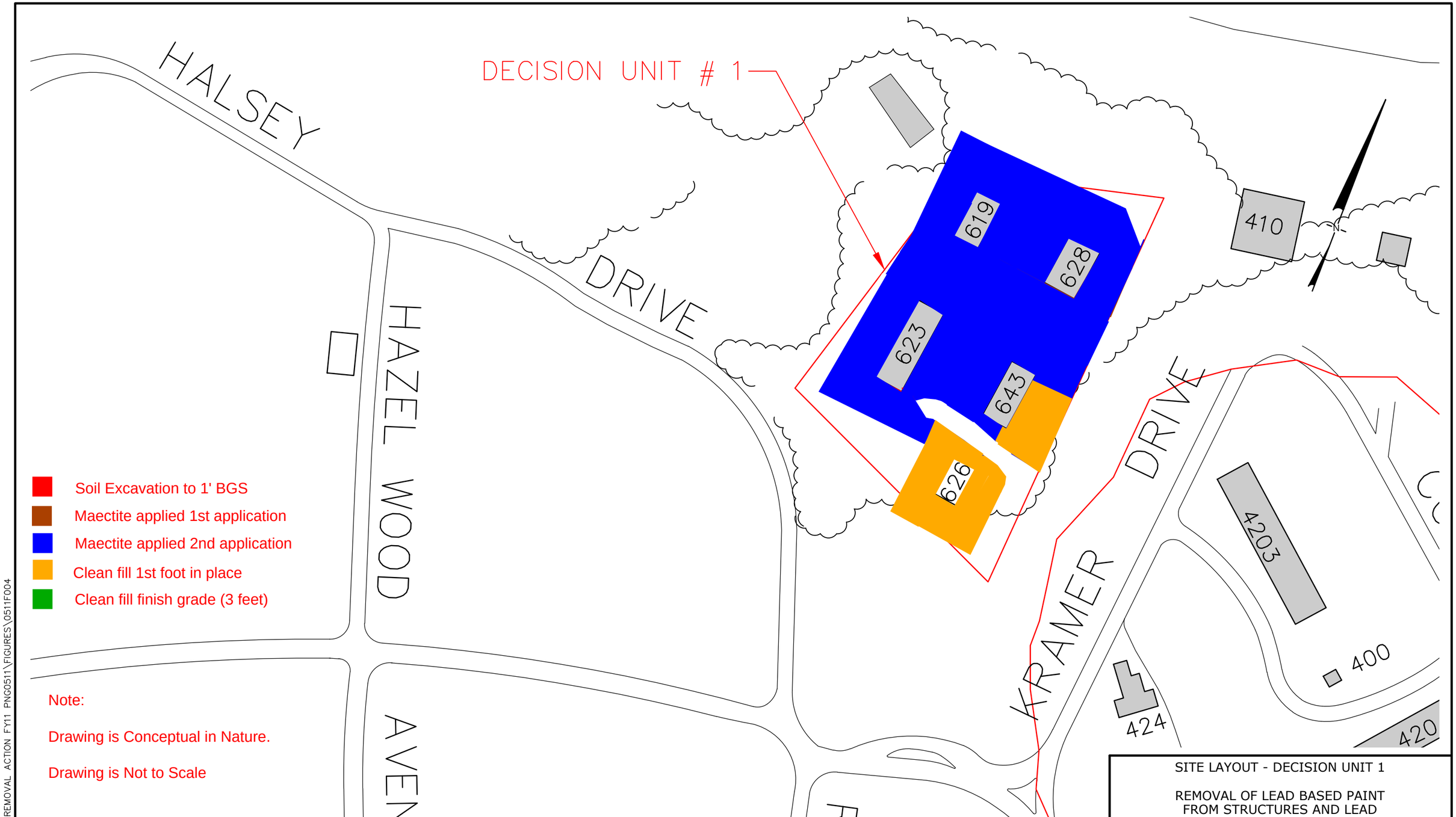
Photo 01: NWDE loading and hauling clean sand backfill from borrow source area between cargo pier and fuel pier to DU1.

Photo 02: NWDE hauling and placement of clean sand backfill around Bldg 626 footprint.

Photo 03: NWDE placement of first foot of clean sand backfill in southern portion of DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Wednesday, August 29, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	110 gallons	

Description of Work:

0700 –.NWDE conducts safety meeting.

0720 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) excavate clean borrow source area between cargo pier and fuel pier and load clean sand backfill using excavator and 2 off road trucks to haul clean sand backfill to DU1.

NWDE Backfill placement crew (A. Philips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) begin spreading and placement of clean sand backfill in DU1 using mini-excavator, tracked skid steer on the west side of Bldg 643 in DU1.

0930 – NWDE Excavation and hauling crew continue loading and hauling clean sand backfill to DU1 for placement.

NWDE Backfill placement crew continues spreading and placement of first foot of clean sand backfill in southern portion of DU1. J. Ordaz, J. Smith, and C. Nelson work to re-bag sandbags for potential later use in DU4.

1000 – NWDE E. White and C. Tyrrell establish excavation depth of newly deposited sand between the cargo pier and the fuel pier and confirm depth to visible impacted layer of sand.

1100 – NWDE Excavation and hauling crew continue loading and hauling clean sand backfill to DU1 for placement.

NWDE Backfill placement crew continues spreading and placement of first foot of clean sand backfill on west side of Bldg 643 in DU1 and to re-bag sandbags.

1200 – Lunch.

1230 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) excavate and load clean sand backfill from borrow source area on south side of cargo pier and haul to DU1 using excavator and 2 off road trucks.

NWDE Backfill placement crew (A. Philips, J. Stone, J. Ordaz, J. Smith, and C. Nelson) spread and place clean sand backfill on west side of Bldg 643 and south side of Bldg 623 footprint using mini excavator, tracked skid steer, and hand tools and work to re-bag sandbags.

1430 – NWDE Excavation and hauling crew continue to load and haul clean sand backfill from borrow source area to DU1 for placement.

NWDE Backfill placement crew continues to spread and place clean sand backfill on the south side of Bldg 623 footprint and re-bag sandbags.

1530 – S. Schulmeister, Midway Refuge Manager, and F. Gaetano, Interim PM, U.S. FWS inspect prospective sand backfill levels in DU1. It is decided that the 6" above original grade is a better option for the refuge and for the project DU1 and DU6 than the existing 2' above original grade in DU6. Appropriate NWDE personnel notified.

1700 – NWDE Excavation and hauling crew continue to excavate, load, and haul sand from the clean sand borrow source area on the south side of the cargo pier for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE Backfill placement crew continues to spread and place first foot of clean sand backfill in DU1 on west side of Bldg 623 footprint.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12	0	0	0	0	0
08/29/12	0	0	0	0	0
08/30/12					
08/31/12					
09/01/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

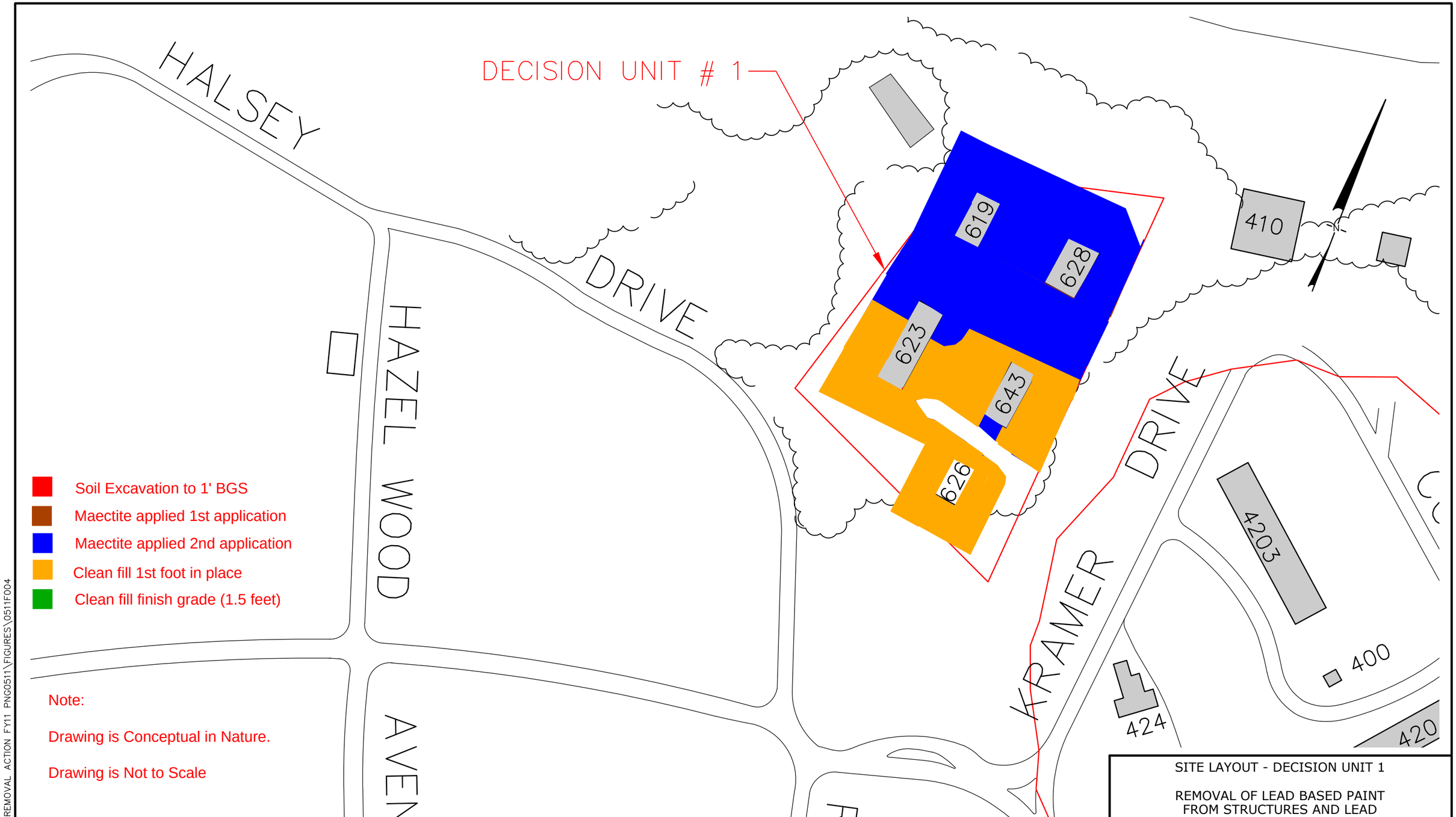
Photo 01: NWDE loading clean sand backfill in to off road truck from borrow source area on the north side of the cargo pier.

Photo 02: NWDE placement of first foot of clean sand backfill on east side of Bldg 643.

Photo 03: NWDE progress of placement of first foot of clean sand backfill in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

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Daily Field Report

Date: Thursday, August 30, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, light breeze, scattered rain showers, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	

Description of Work:

0556 – NWDE R. Wayper email authorization to proceed with work as described in the Wednesday, August 29, 2012, email communication from F. Gaetano U.S. FWS Interim PM.

0700 –.NWDE conducts safety meeting.

0715 – NWDE crew performs routine vehicle and equipment maintenance prior to moving equipment to DU6 for transfer of backfill from DU6 to DU1.

0730 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) begin adjustment of clean sand backfill levels in DU6 using excavator and 2 off road trucks to haul clean sand backfill to DU1.

0945 - NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue spreading and placing first foot of clean sand backfill in DU1 using tracked skid steer.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) begin spreading and placement of clean sand backfill to 6 inches above grade in DU6 using mini-excavator, on the east side of Bldg 356.

1130 – NWDE DU1 Backfill placement crew continues to spread first foot of clean sand backfill between Bldg 643, Bldg 619 footprint, and Bldg 628 footprint.

NWDE Excavation and hauling crew continue loading and hauling clean sand backfill from DU6 to DU1 for placement.

NWDE DU6 Backfill placement crew continues placement and grading of clean sand backfill on east side of Bldg 356 in DU6.

1200 – Lunch.

1230 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue loading and hauling clean sand backfill from DU6 to DU1 for placement using the excavator and two off road trucks.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) resume spreading and grading of clean sand backfill on east side of Bldg 356 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue to spread first foot of clean sand backfill in the central portion of DU1 using tracked skid steer.

1415 – NWDE Excavation and hauling crew loading and hauling clean sand backfill from east side of Bldg 363 in DU6.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill on southeast corner of Bldg 356 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place first foot of clean sand backfill on the north side of Bldg 643 in DU1.

1645 - NWDE Excavation and hauling crew continue to load and haul sand from the south side of Bldg 363 in DU6 for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE DU6 Backfill placement crew continue spreading and grading of clean sand backfill to a depth of 6 inches above original grade on the east side of Bldg 363 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place first foot of clean sand backfill in the central portion of DU1 using tracked skid steer.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12	0	0	0	0	0
08/29/12	0	0	0	0	0
08/30/12	0	0	0	0	0
08/31/12					
09/01/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: East side of Bldg 356 in DU6 with 3 feet of backfill, prior to backfill level adjustment.

Photo 02: NWDE adjusting backfill level on east side of Bldg 356 to 1.5 feet (6 inches above original grade).

Photo 03: NWDE placement of first foot of clean sand backfill in DU1.

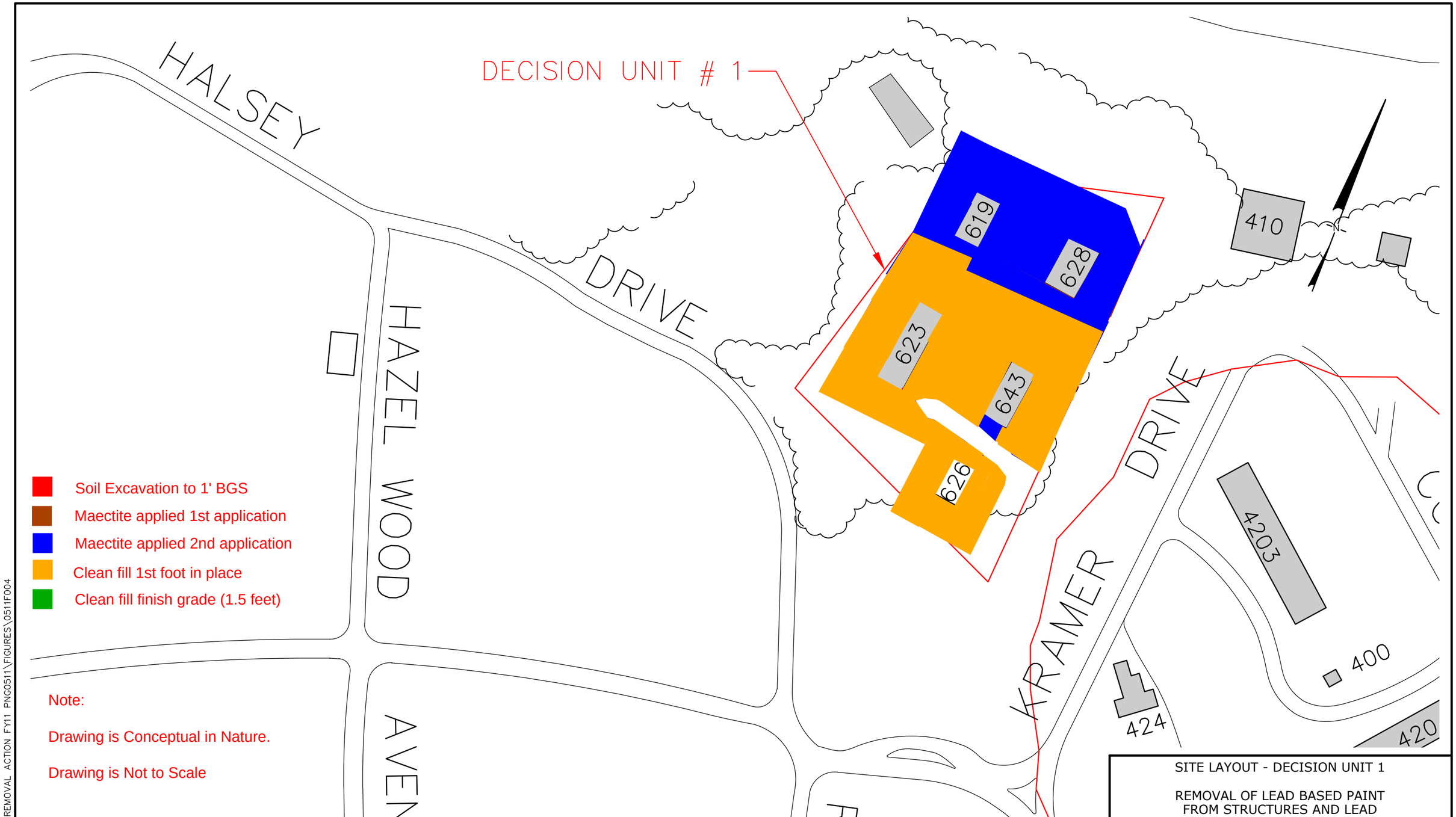
Photo 04: Existing backfill on east side of Bldg 363 prior to level adjustment.

Photo 05: NWDE adjustment of backfill level on east side of Bldg 363 in DU6.

Photo 06: NWDE progress of placement of first foot of clean sand backfill in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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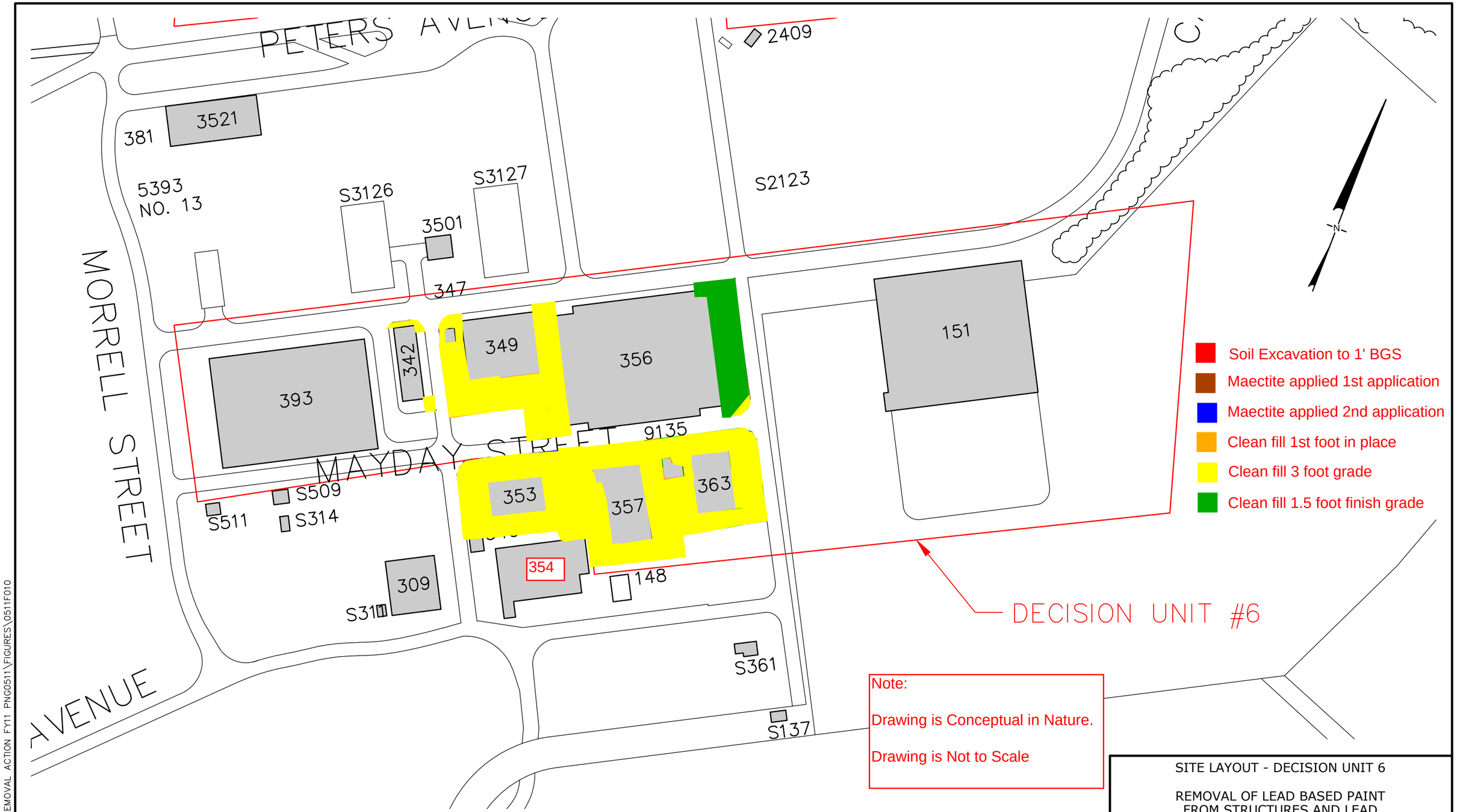

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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Daily Field Report

Date: Friday, August 31, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Partly cloudy, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	162 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0830 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) resume adjustment of clean sand backfill levels in DU6 on the east side of Bldg 363 using excavator and 2 off road trucks to haul clean sand backfill to DU1.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) continue spreading and placement of clean sand backfill to 6 inches above grade in DU6 using mini-excavator, on the east side of Bldg 363.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue spreading and placing first foot of clean sand backfill in DU1 using tracked skid steer.

0930 – NWDE E. White, C. Tyrrell, and F. Gaetano, US FWS Interim PM, to FWS Midway office for conference call with R. Wayper to inform NWDE of FWS conference calls earlier this morning and the decision to proceed from U.S. FWS national and regional offices with the current action of transferring clean sand backfill from DU6 to DU1 and for the reduction in sand backfill level from those originally prescribed in the work plan.

1000 – NWDE Excavation and hauling crew continues loading and hauling from between Bldg 363 and 357 in DU6 to DU1.

NWDE DU6 Backfill placement crew continues placing and grading of clean sand backfill to 6 inches above grade on the southeast corner of Bldg 363 in DU6.

NWDE DU1 Backfill placement crew continue spreading and placing first foot of clean sand backfill on the south sides of Bldg 619 and Bldg 628 footprints in DU1.

1145 – NWDE DU1 Backfill placement crew place clean sand backfill on the hillside to the west of Bldg 619 footprint in DU1.

NWDE Excavation and hauling crew continue loading and hauling clean sand backfill from DU6 to DU1 for placement.

NWDE DU6 Backfill placement crew continues placement and grading of clean sand backfill on southeast corner of Bldg 363.

1200 – Lunch.

1230 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue loading and hauling clean sand backfill from the southeast corner of Bldg 357 in DU6 to DU1 for placement using the excavator and two off road trucks.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) resume spreading and grading of clean sand backfill between Bldg 363 and Bldg 357 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue to spread clean sand backfill on the hillside west of Bldg 619 footprint in DU1 using tracked skid steer.

1430 – NWDE Excavation and hauling crew loading and hauling clean sand backfill from between Bldg 363 and 357 in DU6.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) spreading and grading clean sand backfill between Bldg 363 and 357 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill on the north side of Bldg 619 footprint in DU1.

1645 – NWDE Excavation and hauling crew continue to load and haul sand from between Bldg 357 and Bldg 353 in DU6 for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE DU6 Backfill placement crew continue spreading and grading of clean sand backfill to a depth of 6 inches above original grade on the southeast corner of Bldg 357 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill between Bldg 619 and Bldg 628 footprints in DU1 using tracked skid steer.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12	0	0	0	0	0
08/29/12	0	0	0	0	0
08/30/12	0	0	0	0	0
08/31/12	0	0	0	0	0
09/01/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: East side of Bldg 356 in DU6 with 3 feet of backfill, prior to backfill level adjustment.

Photo 02: Finished grade on east side of Bldg 356, after level adjustment to 6 inches above original grade.

Photo 03: NWDE progress of grading on southeast side of Bldg 363.

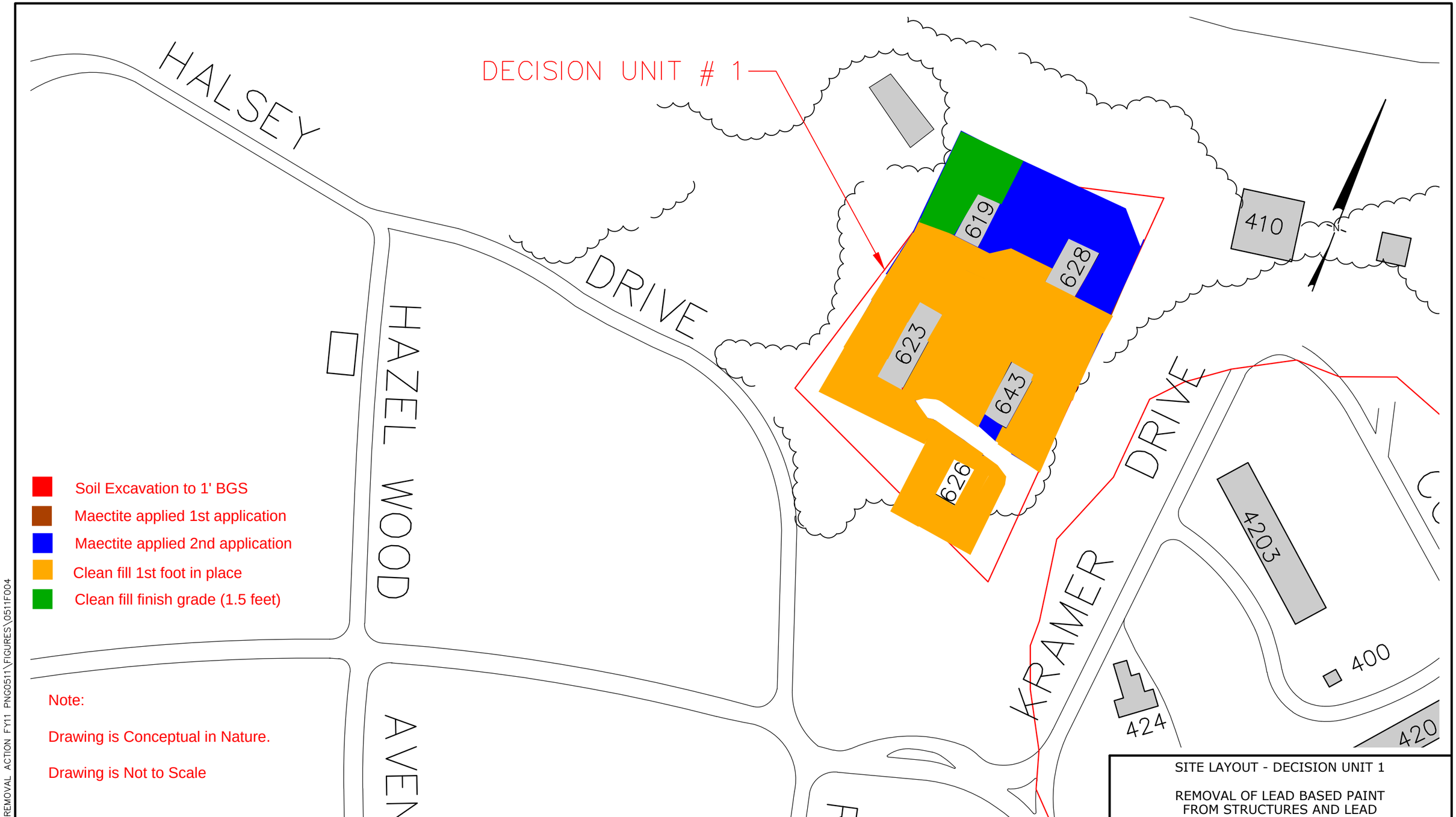
Photo 04: NWDE loading off road truck with sand from DU6.

Photo 05: NWDE adjustment of backfill level on southeast side of Bldg 357 in DU6.

Photo 06: NWDE progress of placement of clean sand backfill in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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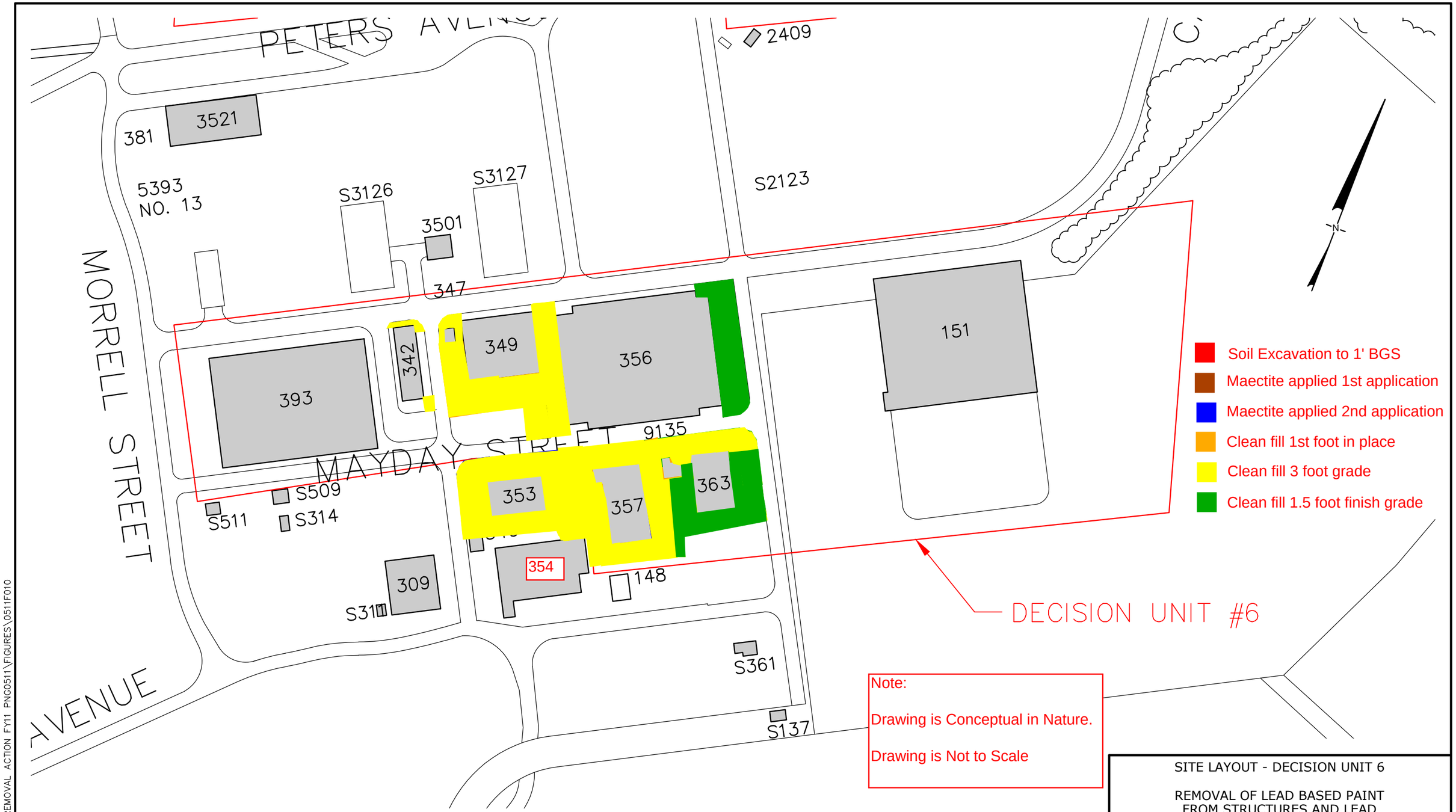

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Saturday, September 1, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service abatement

Weather: Partly cloudy, light breeze, temps upper 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 – NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) perform routine maintenance on machinery and then resume spreading and placing clean sand backfill in DU1 using tracked skid steer on the northern portion of DU1.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) continue grading of clean sand backfill to 6 inches above grade in DU6 using mini-excavator, level, and hand tools between Bldg 363 and Bldg 357.

NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue adjustment of clean sand backfill levels in DU6 between Bldg 363 and Bldg 357 using excavator and 2 off road trucks to haul clean sand backfill to DU1.

1000 – NWDE Excavation and hauling crew continues loading and hauling from the northeast corner of 353 in DU6 to DU1.

NWDE DU6 Backfill placement crew continues grading of clean sand backfill to 6 inches above original grade on the east side of Bldg 357 in DU6.

NWDE DU1 Backfill placement crew continues placing clean sand backfill on the north sides of Bldg 619 and Bldg 628 footprints in DU1.

1145 – NWDE DU1 Backfill placement crew place clean sand backfill to 6” above original grade on the hillside to across the northern portion of DU1.

NWDE Excavation and hauling crew continue loading and hauling clean sand backfill from DU6 to DU1 for placement from the east side of Bldg 353.

NWDE DU6 Backfill placement crew continues placement and grading of clean sand backfill on south side of Bldg 353.

1200 – Lunch.

1300 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue loading and hauling clean sand backfill from the south side of Bldg 353 in DU6 to DU1 for placement using the excavator and two off road trucks.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) resume grading of clean sand backfill on the south side of Bldg 357 in DU6 using mini excavator, laser level, and hand tools.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue to spread clean sand backfill on the hillside in DU1 using tracked skid steer.

1515 – NWDE Excavation and hauling crew loading and hauling clean sand backfill from south side of Bldg 353 and southwest corner of Bldg 357 in DU6 using both excavator and mini-excavator to load off-road trucks when not in use grading (see below).

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) grading clean sand backfill and loading off road trucks with backfill on the south side and southwest corner of Bldg 357 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill on the west side of Bldg 628 footprint in DU1.

1630 – NWDE Excavation and hauling crew continue to load and haul sand from the west side of Bldg 353 in DU6 for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE DU6 Backfill placement crew continue spreading and grading of clean sand backfill to a depth of 6 inches above original grade on the west side of Bldg 357 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill between Bldg 619 and Bldg 628 footprints in DU1 using tracked skid steer.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
08/27/12	0	0	1	0	0
08/28/12	0	0	0	0	0
08/29/12	0	0	0	0	0
08/30/12	0	0	0	0	0
08/31/12	0	0	0	0	0
09/01/12	0	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE loading off road truck with backfill for transport from DU6 to DU1.

Photo 02: NWDE placement and spreading clean sand backfill on northern portion of DU1.

Photo 03: NWDE progress grading on south side of Bldg 357.

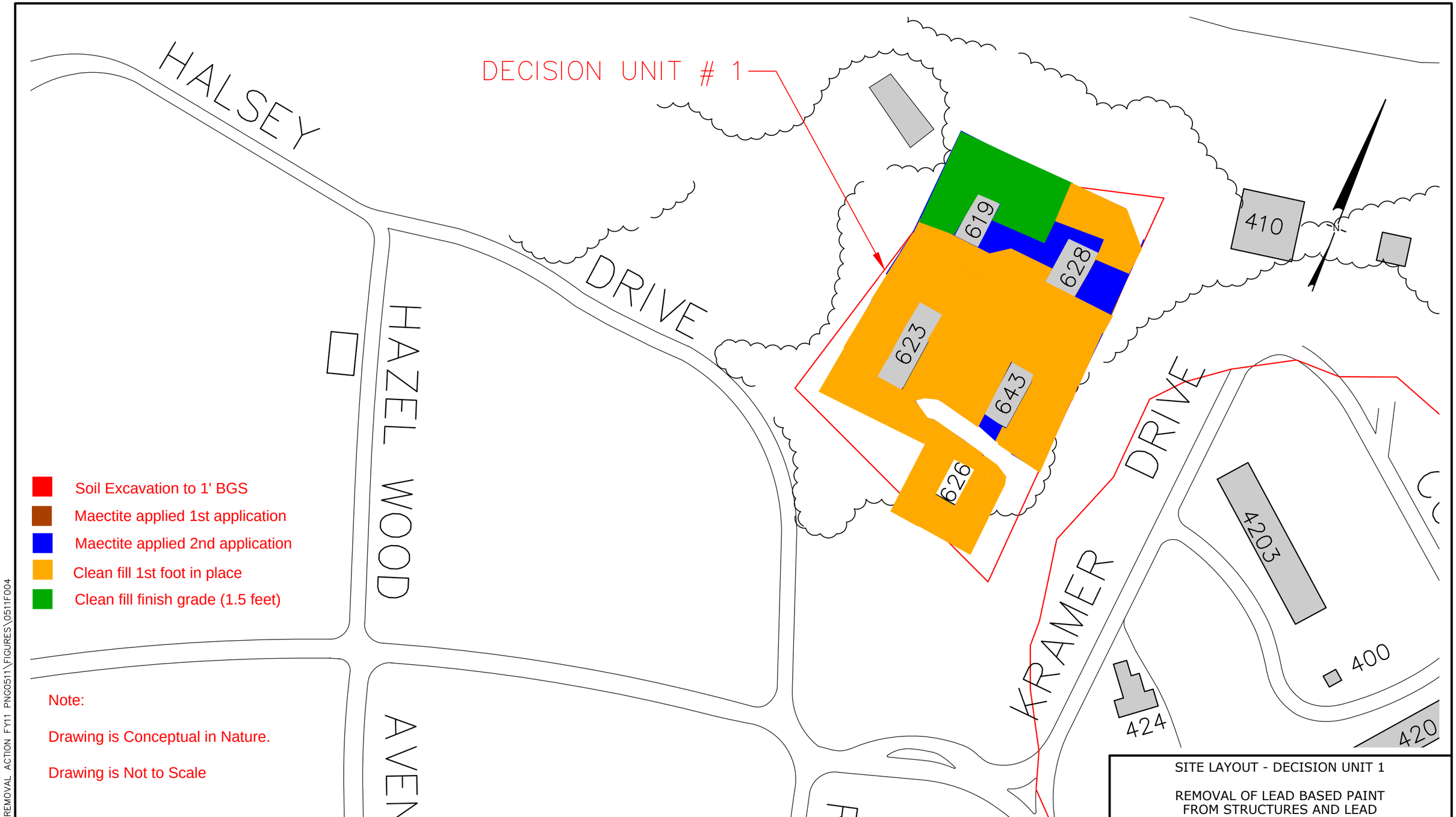
Photo 04: Area between Bldg 363 and Bldg 357 in DU6 with 3 feet of backfill, prior to backfill level adjustment.

Photo 05: Finished grade between Bldg 363 and Bldg 357, after level adjustment to 6 inches above original grade.

Photo 06: NWDE progress of placement of clean sand backfill in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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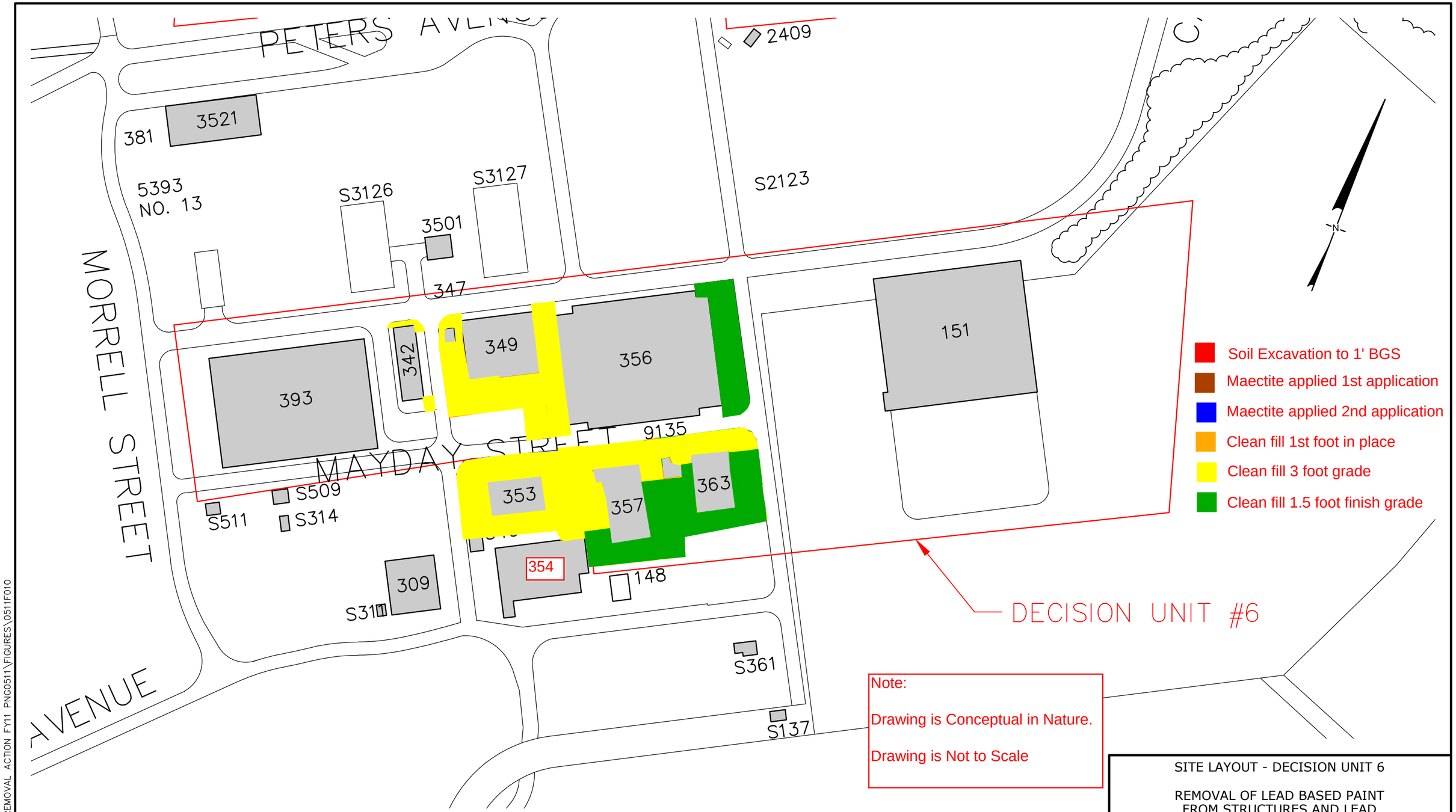

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 4, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service abatement

Weather: Cloudy, light breeze, scattered showers, temps low-mid 80s.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	110 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0715 – NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz resume spreading and placing clean sand backfill in DU1 using tracked skid steer on the northern slope of DU1.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) continue grading of clean sand backfill to 6 inches above grade in DU6 using mini-excavator, level, and hand tools on west side of Bldg 357.

NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue adjustment of clean sand backfill levels in DU6 from the west side of Bldg 353 using excavator and 2 off road trucks to haul clean sand backfill to DU1.

0900 – NWDE Excavation and hauling crew move to load clean sand backfill from the south side of Bldg 349 and continue hauling to DU1.

1000 – NWDE E. White and C. Tyrrell join U.S. FWS Interim PM, Refuge Director, and Deputy Project Leader and Wildlife Refuge Manager for weekly project conference call at the U.S. FWS Midway office.

1100 – NWDE DU6 Backfill placement crew continues grading of clean sand backfill to 6 inches above original grade on the west side of Bldg 357 in DU6.

NWDE DU1 Backfill placement crew continues placing clean sand backfill between Bldg 619 and Bldg 628 footprints to a finished depth of 6” above original grade in the north central portion of DU1.

1200 – Lunch.

1230 – NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue loading and hauling clean sand backfill from the south side of Bldg 349 in DU6 to DU1 for placement using the excavator and two off road trucks.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) resume grading of clean sand backfill on the west side of Bldg 357 in DU6 using mini excavator, laser level, and hand tools.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue to spread clean sand backfill in central portion of DU1 using tracked skid steer.

1500 – DBSI removes tank on west side of Bldg 628 footprint.

1515 – NWDE Excavation and hauling crew loading and hauling clean sand backfill from north side of Bldg 357 in DU6 using excavator and 2 off-road trucks.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) grading clean sand backfill on the north side of Bldg 353 in DU6 using mini excavator, survey level, and hand tools.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill on the east side of Bldg 628 footprint after tank removal and covering area with shadecloth.

1530 – DBSI removes tank on south side of Bldg 643.

1630 – U.S. FWS Interim PM confirms that soils around the Sea Plane Hanger are still in the work contract under DU6 and therefore must be treated, excavated, sampled, treated, and area backfilled to complete DU6 work in addition to the SK1 Warehouse (Bldg 393).

1650 – NWDE Excavation and hauling crew continue to load and haul sand from the south side of Bldg 349 in DU6 for use as backfill in DU1 using excavator and 2 off road trucks.

NWDE DU6 Backfill placement crew continue spreading and grading of clean sand backfill to a depth of 6 inches above original grade on the north side of Bldg 353 in DU6 using mini excavator, survey level, and hand tools, and loading 1 off road truck for transport of clean sand backfill to DU1.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill in the central portion of DU1 using tracked skid steer.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/21/12	-	-	-	-	-
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/03/12	0	0	0	0	0
09/04/12	0	0	0	0	0
09/05/12					
09/06/12					
09/07/12					
09/08/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE loading off road truck with backfill for transport from DU6 to DU1.

Photo 02: DBSI tank removal on south side of Bldg 643 in DU1.

Photo 03: NWDE progress grading on north side of Bldg 353.

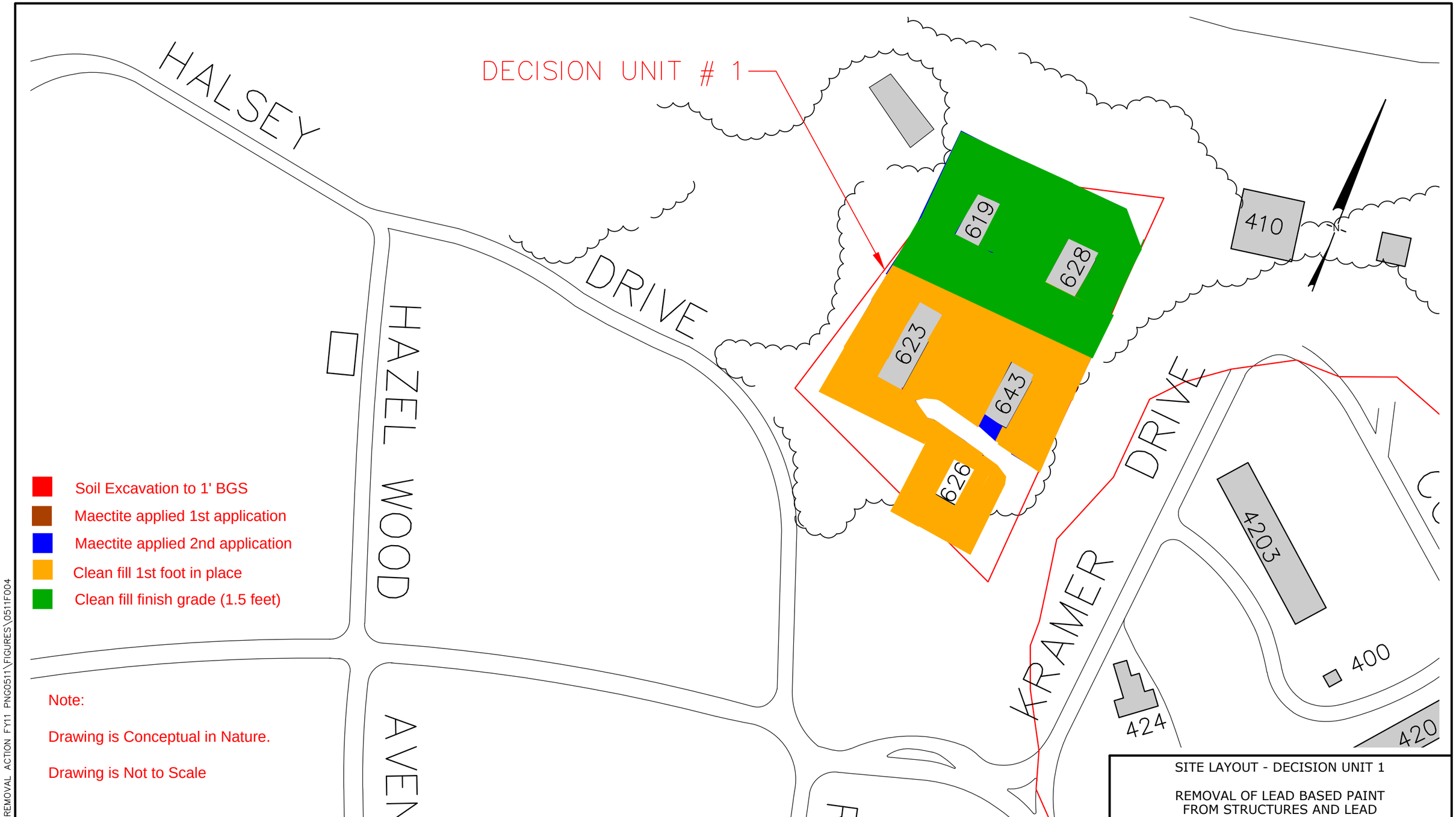
Photo 04: Area between Bldg 357 and Bldg 353 in DU6 with 3 feet of backfill, prior to backfill level adjustment.

Photo 05: Finished grade between Bldg 357 and Bldg 353, after level adjustment to 6 inches above original grade.

Photo 06: NWDE progress of placement of clean sand backfill in DU1.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 120' 240'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004.dwg

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Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

Daily Field Report

Date: Wednesday, September 5, 2012
Prepared by: Christa Tyrrell

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service abatement

Weather: Light breeze, temps upper 80s rain night before, ground saturated during morning hours.

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title
Keola Nakamura	U.S. FWS Project Contract Archeologist

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	310 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0715 – NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) resume spreading and placing clean sand backfill in DU1 using tracked skid steer just north of Bldg 643 in DU1.

NWDE DU6 Backfill placement crew (J. Stone, J. Smith, and C. Nelson) continue grading of clean sand backfill to 6 inches above grade in DU6 using mini-excavator, level, and hand tools on the north side of Bldg 353.

NWDE Excavation and hauling crew (D. Hard, M. Saiki, and S. Monear) continue adjustment of clean sand backfill levels in DU6 from the south side of Bldg 353 using excavator and 2 off road trucks to haul clean sand backfill to DU1.

0900 – NWDE E. White and C. Tyrrell take building measurements in DU4.

1100 – NWDE DU6 Backfill placement crew continues grading of clean sand backfill to 6 inches above original grade on the west side of Bldg 353 in DU6.

NWDE DU1 Backfill placement crew continues placing clean sand backfill on the east side of DU1 to a finished depth of 6” above original grade.

1200 – Lunch.

1245 – NWDE Excavation and hauling crew and DU6 Backfill placement crew (D. Hard, M. Saiki, and S. Monear, J. Stone, J. Smith, and C. Nelson) resume loading and hauling clean sand backfill from the south side of Bldg 353 in DU6 to DU1 for placement using the mini-excavator, 2 off road trucks, laser level, and hand tools.

NWDE DU1 Backfill placement crew (A. Philips and J. Ordaz) continue to spread clean sand backfill between Bldg 643 and Bldg 623 footprint in DU1 using tracked skid steer.

1315 – C. Tyrrell requests utility locate for Sea Plane Hangar in preparation for soil treatment and excavation.

1400 – NWDE (J. Ordaz, J. Smith, D. Hard, and A. Phillips) apply 2nd Maectites application and mix area where tank was pulled from the south side of Bldg 643, covers with shadecloth witness layer, and backfills area with clean sand.

1500 – NWDE DU1 Backfill placement crew (A. Philips and D. Hard) continue to spread clean sand backfill on the south side of Bldg 643 using tracked skid steer

NWDE Maectite crew (J. Ordaz and J. Smith) begin laying out Maectite application grid on northeast corner of the Sea Plane Hangar.

1700 – NWDE Excavation and hauling crew and Backfill placement crew continue to load and haul sand from the southeast corner of Bldg 342 in DU6 for use as backfill in DU1 using mini-excavator and 2 off road trucks and spreading and grading of clean sand backfill to a depth of 6 inches above original grade.

NWDE DU1 Backfill placement crew continues to spread and place clean sand backfill on the south side of Bldg 643 in DU1 using tracked skid steer.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
07/21/12	-	-	9	3,766	572	4,048
07/22/12	-	-	-	3,766	-	4,048
07/23/12	-	-	28	3,794	385	4,433
07/24/12	21	-	-	3,815	220	4,653
07/25/12	264	-	8	4,087	-	4,653
07/26/12	532	-	10	4,629	-	4,653
07/27/12	352	-	8	4,989	-	4,653
07/28/12	37	-	18	5,044	66	4,719
07/30/12	63	-	-	5,107	132	4,851
07/31/12	40	-	-	5,147	22	4,873
08/01/12	-	-	-	5,147	-	4,873
08/02/12	-	-	-	5,147	-	4,873
08/03/12	-	-	-	5,147	-	4,873
08/04/12	-	-	-	5,147	-	4,873
08/06/12	-	-	-	5,147	-	4,873
08/07/12	-	394	-	5,541	-	4,873
08/08/12	-	606	-	6,147	-	4,873
08/09/12	-	584	-	6,731	-	4,873
08/10/12	-	477	-	7,208	-	4,873
08/11/12	-	-	-	7,208	-	4,873
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
07/22/12	-	-	-	-	-
07/23/12	-	-	-	-	-
07/24/12	-	-	-	-	-
07/25/12	-	-	-	-	-
07/26/12	-	-	-	-	-
07/27/12	374	374	-	-	-
07/28/12	-	374	-	-	-
07/30/12	792	1,166	-	-	-
07/31/12	1606	2,772	-	-	-
08/01/12	1540	4,312	-	-	-
08/02/12	1320	5,632	-	-	-
08/03/12	1958	7,590	-	-	-
08/04/12	66	7,656	-	-	-
08/06/12	-	7,656	-	-	-
08/07/12	-	7,656	-	-	-
08/08/12	-	7,656	-	-	-
08/09/12	572	8,228	-	-	-
08/10/12	1144	9,372	-	-	-
08/11/12	660	10,032	-	-	-
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/03/12	0	0	0	0	0
09/04/12	0	0	0	0	0
09/05/12	0	0	0	0	0
09/06/12					
09/07/12					
09/08/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE loading off road truck with backfill for transport from DU6 to DU1.

Photo 02: NWDE placement of clean sand backfill in DU1.

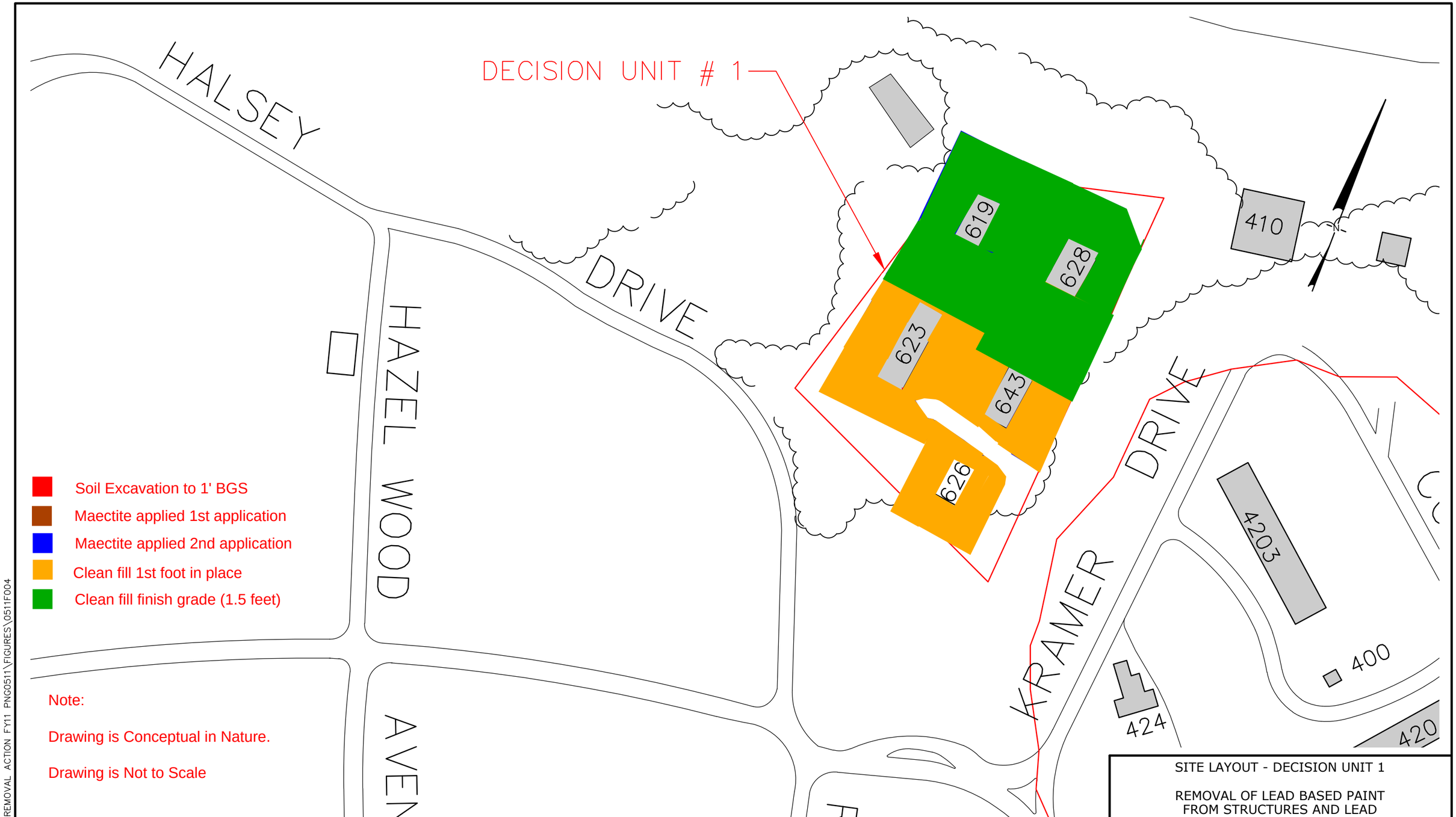
Photo 03: Bldg 353 in DU6 with 3 feet of backfill, prior to backfill level adjustment.

Photo 04: Finished grade on north side of Bldg 353, after level adjustment to 6 inches above original grade.

Photo 05: DBSI bunch grass planting of east side of Bldg 356.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

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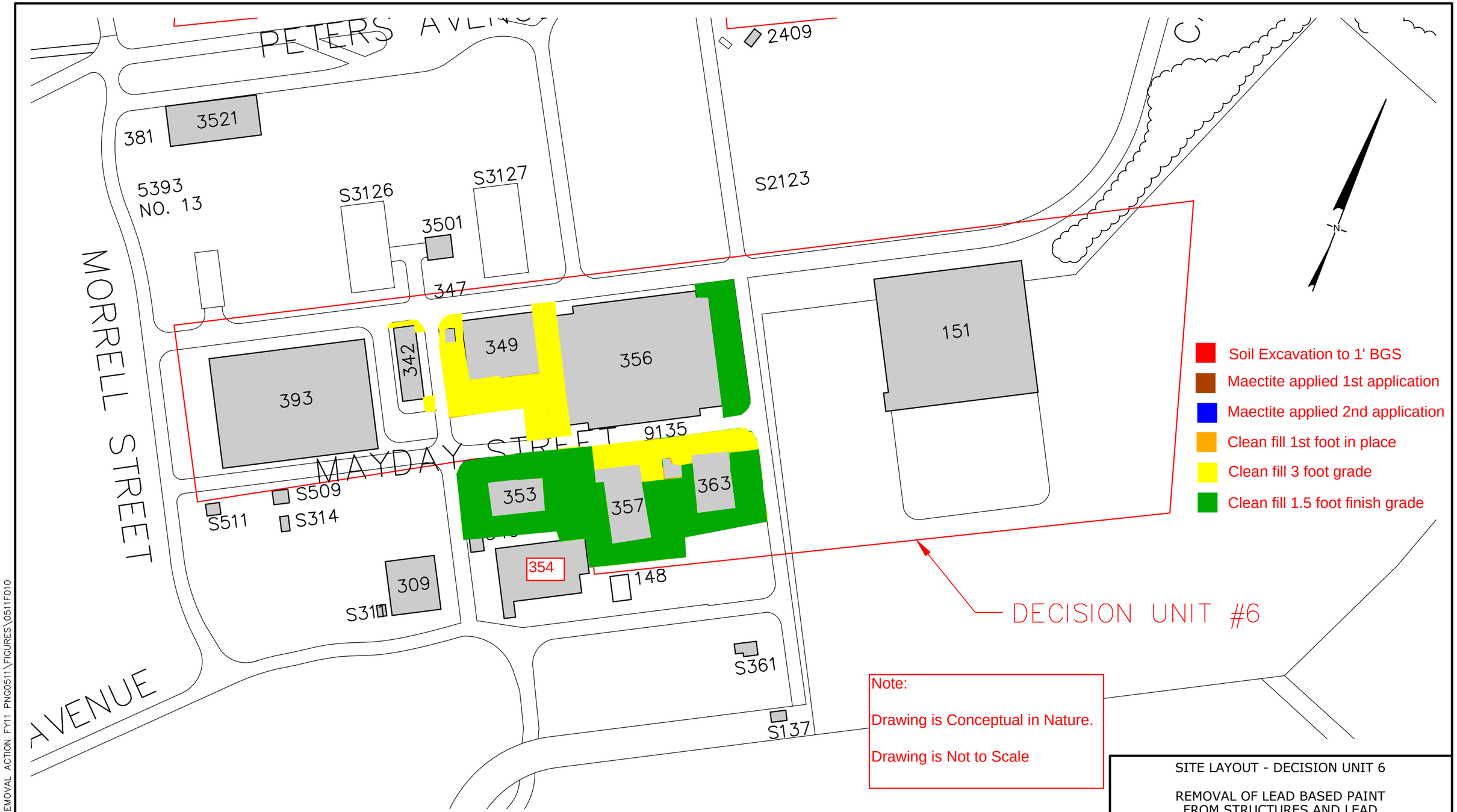

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F010.dwg

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 6, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service abatement

Weather: Light breeze, temps upper 80s, partly cloudy .

Personnel:

Name	Company	Site Hours
Christa Tyrrell	NWDE SSHO / QC	4
Michael Schott	NWDE SSHO / QC	6
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0715 – NWDE (A. Phillips, D. Hard, J Smith, J Ordaz, M. Saiki) preparing to apply the 1st application of Maectite along the north side of the Sea Plane Hanger (Bldg 151) in DU6. Petrel burrows were cleared prior to applying Maectite. 5 Petrels were removed from the area.

NWDE (J. Stone, C. Nelson, S Monear) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the east side of Bldg 342 in DU6.

0900 – NWDE continuing to apply Maectite along the north side of Bldg 151. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows to a uniform appearance.

NWDE continues adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the north side of Bldg 342. Clean sand removed is being hauled to DU1 for backfill.

1030 – M Schott and US FWS PM arrive on island.

1130 – C Tyrrell, US FWS Interim PM and Contract Archeologist fly off island.

1200 - Lunch

1230 - NWDE (D. Hard, J Ordaz, M. Saiki) begin excavating treated soil to 1 foot below grade north of Bldg 151. Treated soil is being hauled to the R-2 Unit.

NWDE (J. Stone, J. Smith, C. Nelson, S Monear) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the west side of Bldg 349. Clean sand removed is being hauled to DU1 for backfill.

NWDE (A. Phillips) is spreading / grading clean sand at DU1 to 6 inches above the original grade.

1600 – A small UST was encountered while excavating treated soils to 1 foot below grade north of Bldg 151.

NWDE (J. Stone, J. Smith, C. Nelson, S Monear) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the south side of Bldg 349. Clean sand removed is being hauled to DU1 for backfill.

NWDE (A. Phillips) is spreading / grading clean sand at DU1 along the west side of Bldg 623 footprint. Backfill is being graded to 6 inches above the original grade.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/13/12	-	-	-	7,208	-	4,873
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/13/12	1716	11,748	-	-	-
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/03/12	0	0	0	0	0
09/04/12	0	0	0	0	0
09/05/12	0	0	0	0	0
09/06/12	0	0	0	0	0
09/07/12					
09/08/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavating treated soil north of Bldg 151.

Photo 02: Completed adjustment of clean sand backfill levels north of Bldg 342.

Photo 03: NWDE adjusting clean sand backfill level south of Bldg 349.

Photo 04: NWDE spreading / grading clean backfill at DU1.

Photo 05: Small UST encountered at Bldg 151.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.

PETERS AVENUE

2409

3521

381

5393
NO. 13

S3126

S3127

3501

S2123

347

MORRELL STREET

342

349

356

151

393

9135

MAYDAY STREET

S509

S511

S314

353

357

363

354

148

309

S311

S361

S137

AVENUE

DECISION UNIT #6

N

Soil Excavation to 1' BGS

Maectite applied 1st application

Maectite applied 2nd application

Clean fill 1st foot in place

Clean fill 3 foot grade

Clean fill 1.5 foot finish grade

Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:

8

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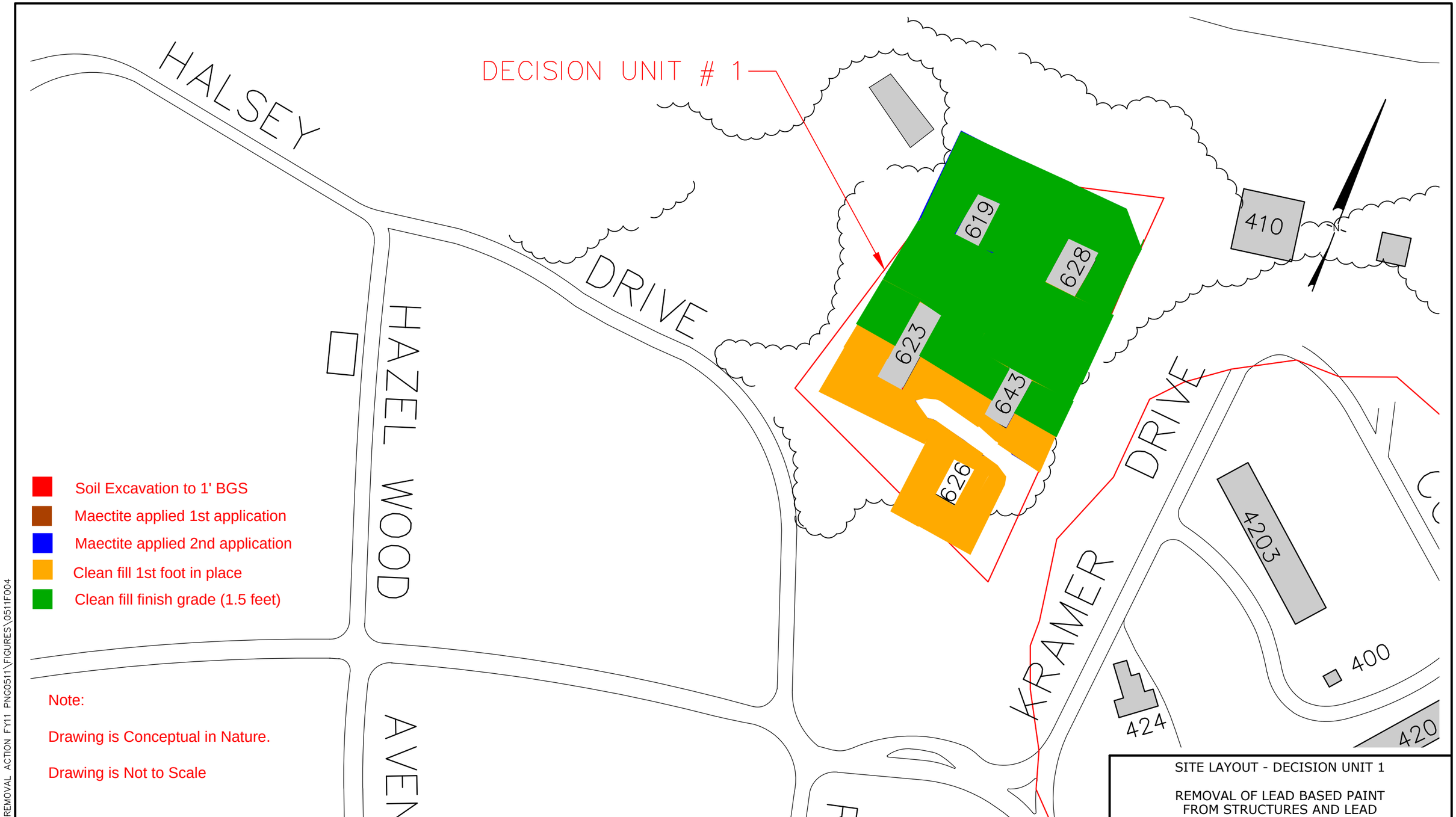

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 7, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service abatement

Weather: Light breeze, temps upper 80s, partly cloudy

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	105 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – NWDE preforms PM on equipment

NWDE (J. Smith) performing QC check of grade at treated soil excavation area north of the Sea Plane Hanger (Bldg 151).

M. Schott collects 3 aliquots for the R-2 unit MEP sample

0800 - E. White notifies US FWS PM of small UST encountered on Thursday during the soil excavation north of Bldg 151.

NWDE (J. Stone, C. Nelson, S Monear, J. Smith) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the south side of Bldg 349 in DU6. Clean Sand is being hauled to DU1.

NWDE (D. Hard, J Ordaz, M. Saiki, A. Phillips) continue excavating treated soil to 1 foot below grade north of Bldg 151. Treated soil is being hauled to the R-2 Unit. Unused concrete sidewalks and miscellaneous slabs within the excavation footprint are being removed per US FWS PM.

1200 – Lunch.

1230 - NWDE (J. Stone, C. Nelson, S Monear, J. Smith) are completing the adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the south and east sides of Bldg 349.

NWDE (D. Hard, J Ordaz, M. Saiki, A. Phillips) continue excavating treated soil to 1 foot below grade north of Bldg 151.

1300 – NWDE moves to the north side of the Torpedo Bldg (Bldg 363) to adjust clean sand backfill levels by grading clean sand backfill to 6 inches above grade.

1310 – DBSI onsite at soil excavation area just north of Bldg 151 to pump out the contents of the small UST encountered on Thursday. DBSI then removes the UST for cleaning and proper disposal. No obvious signs of spills or leaks are present upon removal.

1515 – M. Schott begins collecting the pre-treatment ICS/MIS sample for lead from the base/floor of the soil excavation north of Bldg 151.

1620 – M Schott stops collecting the ICS/MIS sample for the day to allow the soil excavation to continue in advance of completing the sample collection process.

NWDE (D. Hard, J Ordaz, M. Saiki, A. Phillips) continue excavating treated soil to 1 foot below grade north of Bldg 151.

NWDE (J. Stone, C. Nelson, S Monear, J. Smith) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the north sides of Bldg 363 and Bldg 357.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/14/12	-	-	-	7,208	-	4,873
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/14/12	-	11,748	-	-	-
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/03/12	0	0	0	0	0
09/04/12	0	0	0	0	0
09/05/12	0	0	0	0	0
09/06/12	0	0	0	0	0
09/07/12	0	0	0	0	0
09/08/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE excavating treated soil north of Bldg 151.

Photo 02: Completed adjustment of clean sand backfill levels south and east of Bldg 349.

Photo 03: NWDE adjusting clean sand backfill level north and east of Bldg 363.

Photo 04: NWDE adjusting clean sand backfill north of Bldgs 363 and 357.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.

PETERS AVENUE

MORRELL STREET

MAYDAY STREET

A VENUE

2409

S2123

3521

381

5393
NO. 13

S3126

S3127

3501

347

349

356

342

393

151

9135

353

357

363

S509

S511

S314

309

S311

354

148

S361

S137

DECISION UNIT #6

N

Soil Excavation to 1' BGS

Maectite applied 1st application

Maectite applied 2nd application

Clean fill 1st foot in place

Clean fill 3 foot grade

Clean fill 1.5 foot finish grade

Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT
FROM STRUCTURES AND LEAD
CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

OCTOBER 2011

Figure:
8

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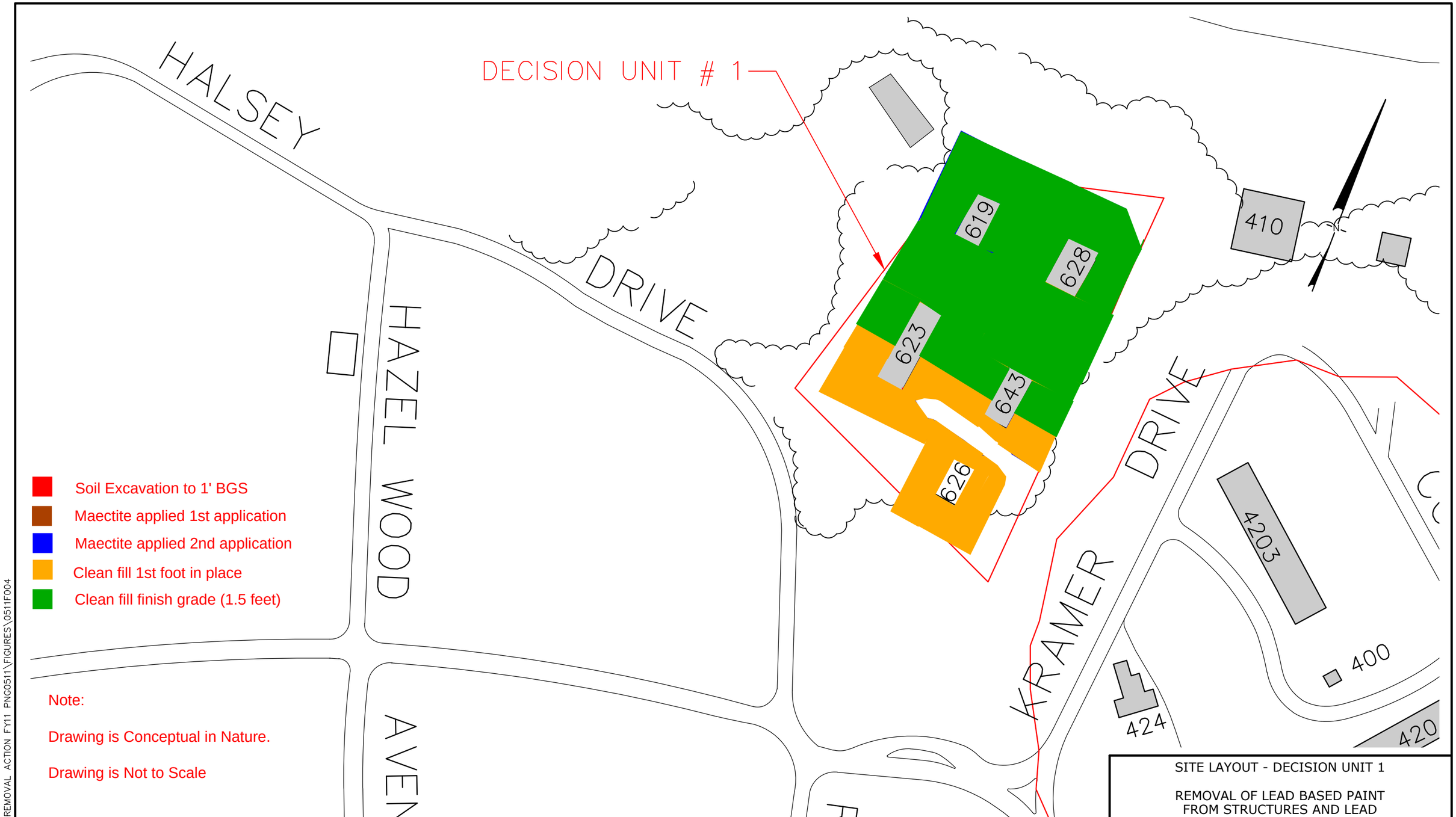

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 8, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Light breeze, temps upper 80s, partly cloudy

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		3 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (J. Stone, C. Nelson, S Monear, J. Smith) continue adjustment of clean sand backfill levels by grading clean sand backfill to 6 inches above grade along the north side of Bldgs 363 and 357 in DU6. Clean Sand is being hauled to DU1.

NWDE (J Ordaz, M. Saiki, A. Phillips) continue excavating treated soil to 1 foot below grade north of Bldg 151. Treated soil is being hauled to the R-2 Unit.

NWDE (D. Hard) is using the dozer to spread and smooth out the piles of treated sand at the R-2 Unit.

0900 – M. Schott resumes collecting the pre-treatment ICS/MIS sample for lead from the base/floor of the soil excavation north of Bldg 151.

0915 – NWDE completes the adjustment of clean sand backfill levels to 6 inches above grade in DU6. Crew moves to the staging area to service equipment (mini-excavator, off-road dump, Volvo excavator).

0930 – M Schott stops sampling to allow the excavation to proceed to completion in advance of sampling.

1045 – NWDE starts applying the 2nd application of Maectite along the north side of Bldg 151. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows to a uniform appearance.

1130 – NWDE continues with the 2nd application of Maectite north of Bldg 151 and servicing equipment at the staging area.

1200 – Lunch.

1230 – NWDE resumes 2nd application of Maectite north of Bldg 151 and servicing equipment at the staging area.

M. Schott completes collection of the pre-treatment ICS/MIS sample for lead from the base/floor of the soil excavation north of Bldg 151.

1515 – NWDE continues servicing equipment at the staging hanger and organizing the supplies in the shipping containers.

NWDE is placing the witness layer shade cloth down on the base / floor of the soil excavation north of Bldg 151.

1630 – NWDE is placing a cover over treated sand / debris on the active cell of the R-2 unit.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/15/12	-	-	-	7,208	-	4,873
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/15/12	-	11,748	-	-	-
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/03/12	0	0	0	0	0
09/04/12	0	0	0	0	0
09/05/12	0	0	0	0	0
09/06/12	0	0	0	0	0
09/07/12	0	0	0	0	0
09/08/12	0	1	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE completed adjusting clean sand elevation north of Bldg 357.

Photo 02: Completed adjustment of clean sand backfill levels north of Bldg 357.

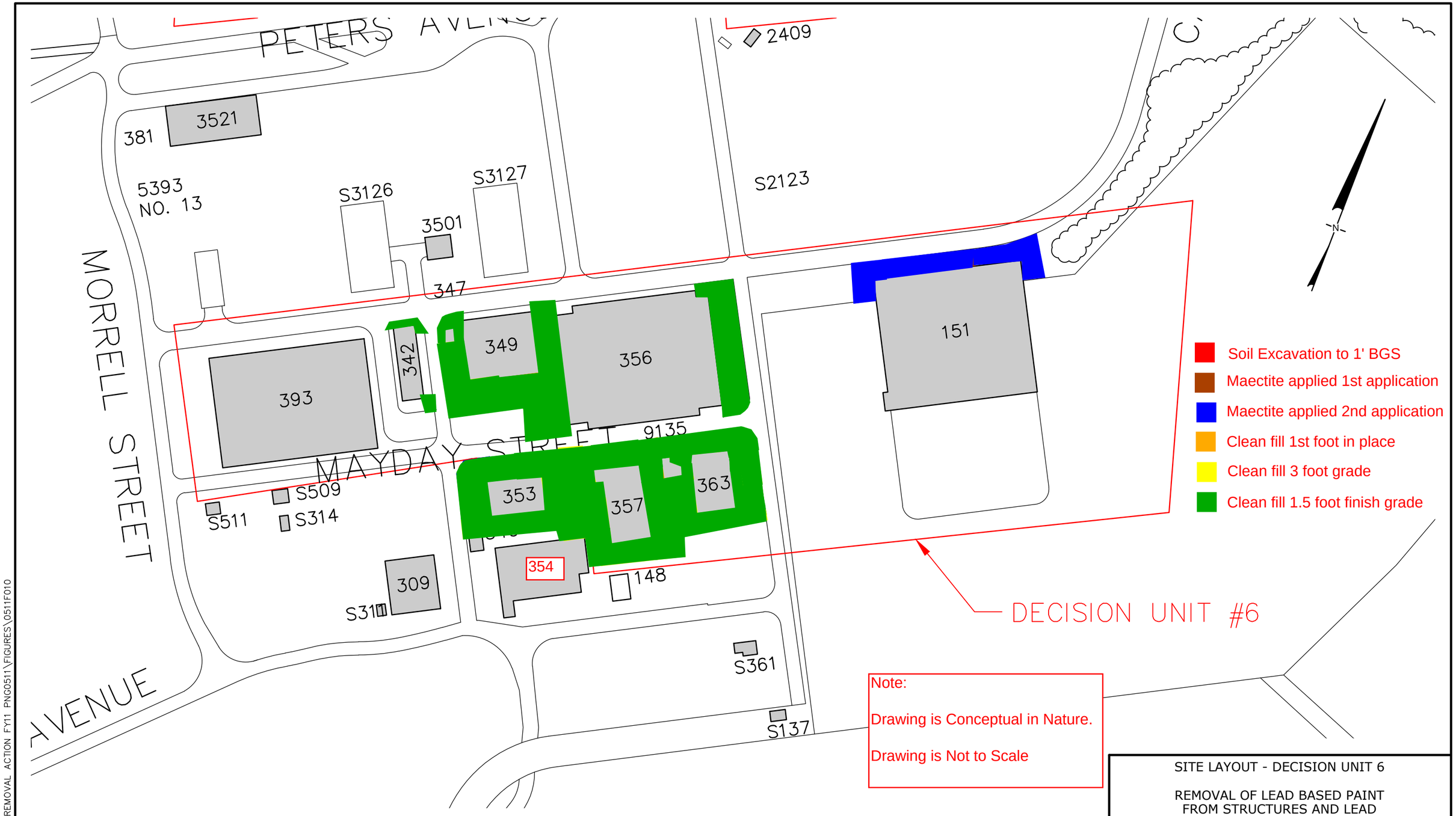
Photo 03: NWDE continuing soil excavation north and west of Bldg 151.

Photo 04: NWDE applying 2nd application of Maectite north of Bldg 151.

Photo 5: NWDE laying witness layer shade cloth north of Bldg 151.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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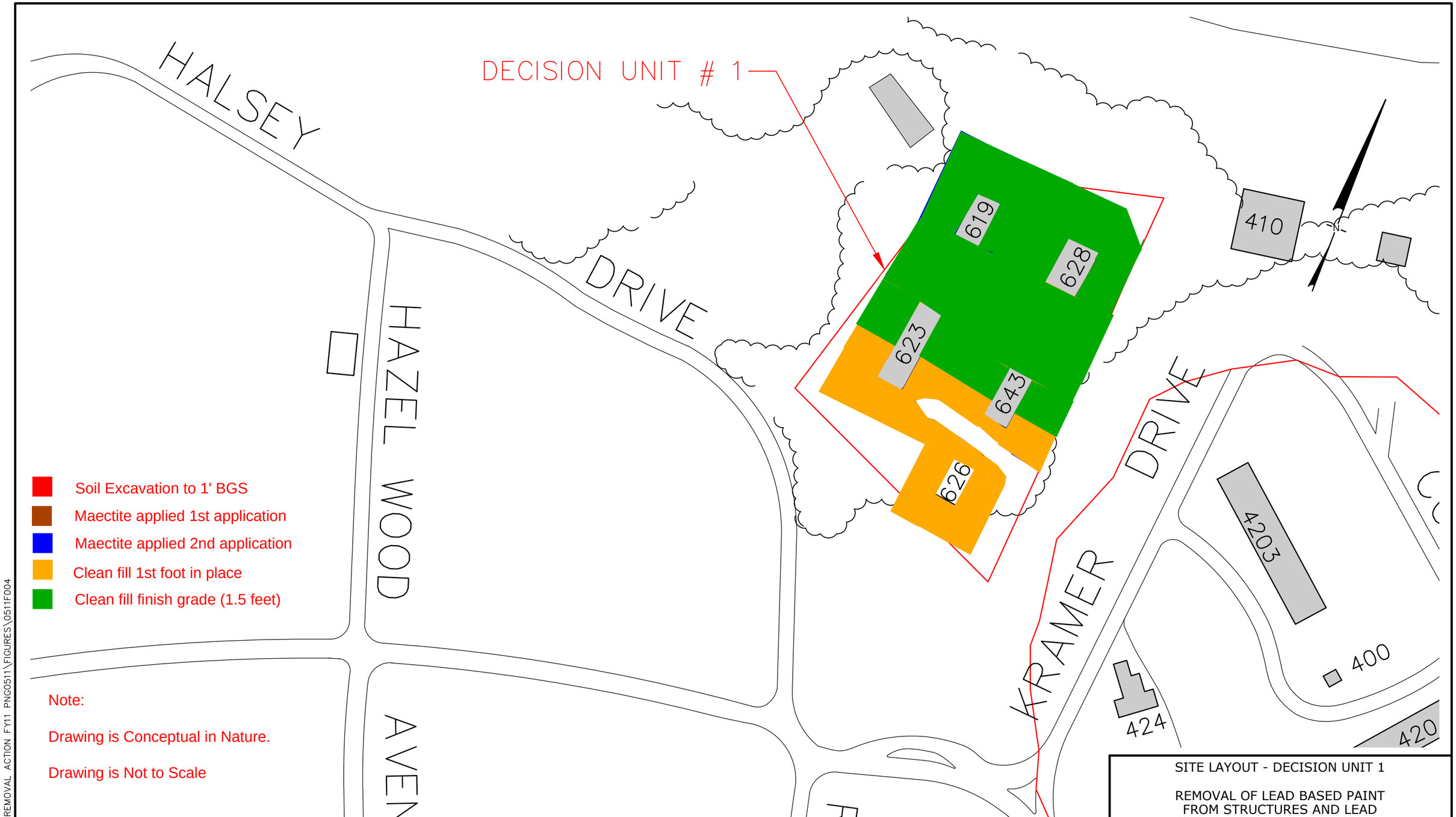

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

L:\CADD\M\MIDWAY REMOVAL ACTION FY11 PNG0511\FIGURES\0511F004

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 10, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps upper 80s, mostly / partly cloudy, rain in the afternoon

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	10
Everett White	NWDE Super	10
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	125 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE (A. Phillips, C. Nelson, J. Smith) resume backfill with clean sand to 6 inches above original grade at DU1. Clean sand was stockpiled from previous days hauling from DU6.

NWDE (D. Hard, M. Saiki, S. Monear, J. Ordaz) are cleaning off the tracks of the Volvo excavator to move it to the small beach just southeast of the Cargo pier. The beach sand will be used as clean sand backfill for DU1.

~0800 – E White takes J Stone and C Nelson to the PA office / Medical Clinic for non-work related conditions. Both return to work after first aid treatment.

0935 – NWDE continues grading clean sand backfill to 6 inches above original grade at DU1. Trucks are being loaded at the small beach just southeast of the Cargo pier.

1000 – M. Schott and E. White attend weekly project conference call with US FWS PM and others.

1045 - NWDE continues grading clean sand backfill to 6 inches above original grade at DU1. Trucks are being loaded at the small beach just southeast of the Cargo pier.

1200 – Lunch.

1230 - NWDE resumes grading clean sand backfill to 6 inches above original grade at DU1. Trucks are being loaded at the small beach just southeast of the Cargo pier.

1435 – NWDE beings backfilling with clean sand to 6 inches above original grade north of the Sea Plane Hanger (Bldg 151). Clean sand is being hauled for backfill from the small beach just southeast of the Cargo Pier.

NWDE continues grading clean sand backfill to 6 inches above original grade at DU1.

~1600 – NWDE completes clean sand backfill at DU1.

NWDE continues backfilling with clean sand to 6 inches above original grade north of Bldg 151.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/16/12	-	-	-	7,208	770	5,643
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/16/12	-	11,748	-	-	-
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12					
09/12/12					
09/13/12					
09/14/12					
09/15/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE continuing clean sand backfill to 6 inches above the original grade at DU1.

Photo 02: NWDE continuing backfill at DU1.

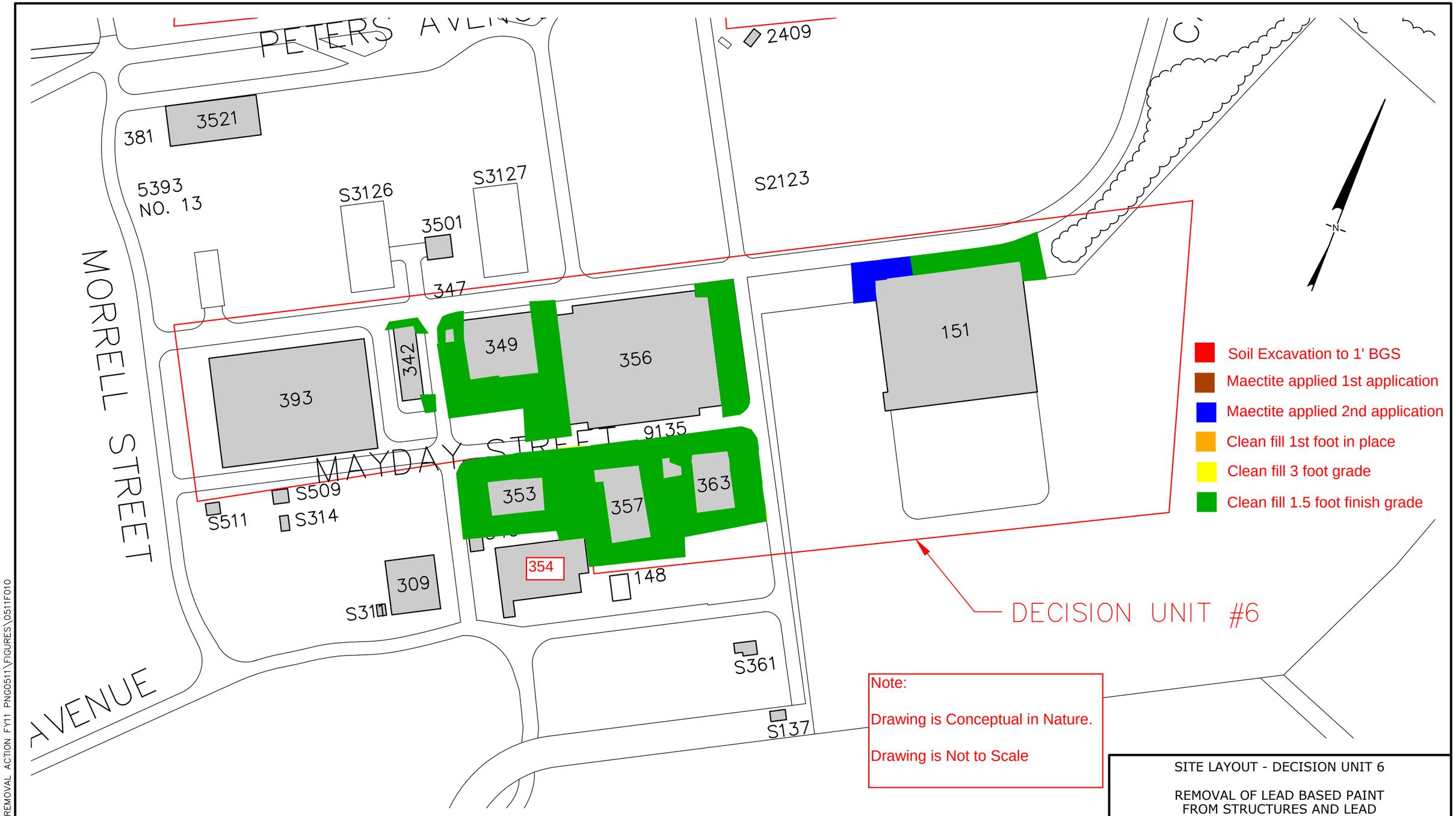
Photo 03: NWDE continuing backfill at DU1.

Photo 04: NWDE beginning clean sand backfill north of Bldg 151.

Photo 5: NWDE backfilling with clean sand to 6 inches above the original grade north of Bldg 151.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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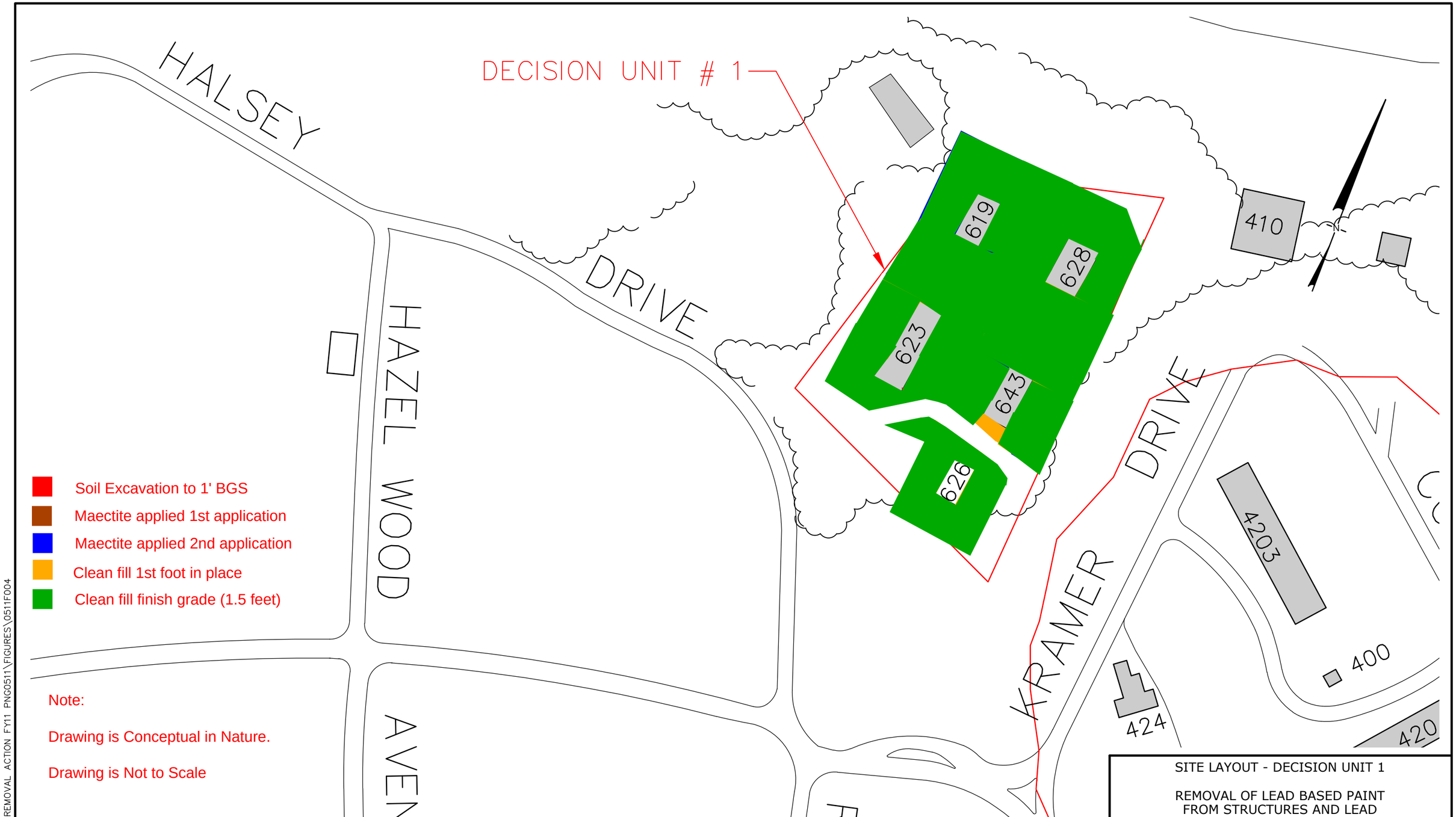

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 11, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Overcast, Temps 70s, Rain in the morning, then Partly Cloudy and Temps in the 80's in the afternoon, Light Wind

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	7
Everett White	NWDE Super	7
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	7.5
Mike Saiki	NWDE Operator	7.5
Jose Ordaz	NWDE Operator	7.5
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	10
Joel Smith	NWDE Laborer	3
Christian Nelson	NWDE Laborer	3

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (A. Phillips, J. Stone, M. Saiki, J. Ordaz, D. Hard, S. Monear) continues backfilling with clean sand to 6 inches above original grade north of the Sea Plane Hanger (Bldg 151). Clean sand is being hauled for backfill from the small beach just southeast of the Cargo Pier.

~0930 – NWDE begin covering the clean backfill north of Bldg 151 with shadecloth and securing with sandbags.

1115 – NWDE is pulling up and re-bagging sandbags from the shadecloth surrounding the SK1 Warehouse (Bldg 393).

1200 – Lunch

1230 – NWDE resumes re-bagging sandbags surrounding Bldg 393.

1350 – E. White and D. Hard walk DU1 with US FWS PM to generate a punchlist for completion of DU1 area work.

1420 – NWDE (A. Phillips) is moving sand from the active cell to the two southern inactive cells to fill in the sumps and low areas to minimize ponding water in the inactive cells.

1530 – NWDE work on punchlist items and cleanup of DU1. Punchlist items include 1) cleaning up the small fragments of demolition debris that remain within the footprint of the 4 buildings, 2) picking up the remaining trash area wide, 3) adding a section of shadecloth to the NE corner of the DU to prevent birds from burrowing underneath, 4) moving the remaining concrete foundation piers to the corners of the footprints of the buildings to demarcate the footprints, and 5) moving 2 historical artifacts for safe keeping.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/17/12	-	-	-	7,208	902	6,545
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/17/12	-	11,748	-	-	-
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12	0	0	0	0	0
09/12/12					
09/13/12					
09/14/12					
09/15/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE continuing clean sand backfill to 6 inches above the original grade at Bldg 151.

Photo 02: NWDE continuing backfill at Bldg 151.

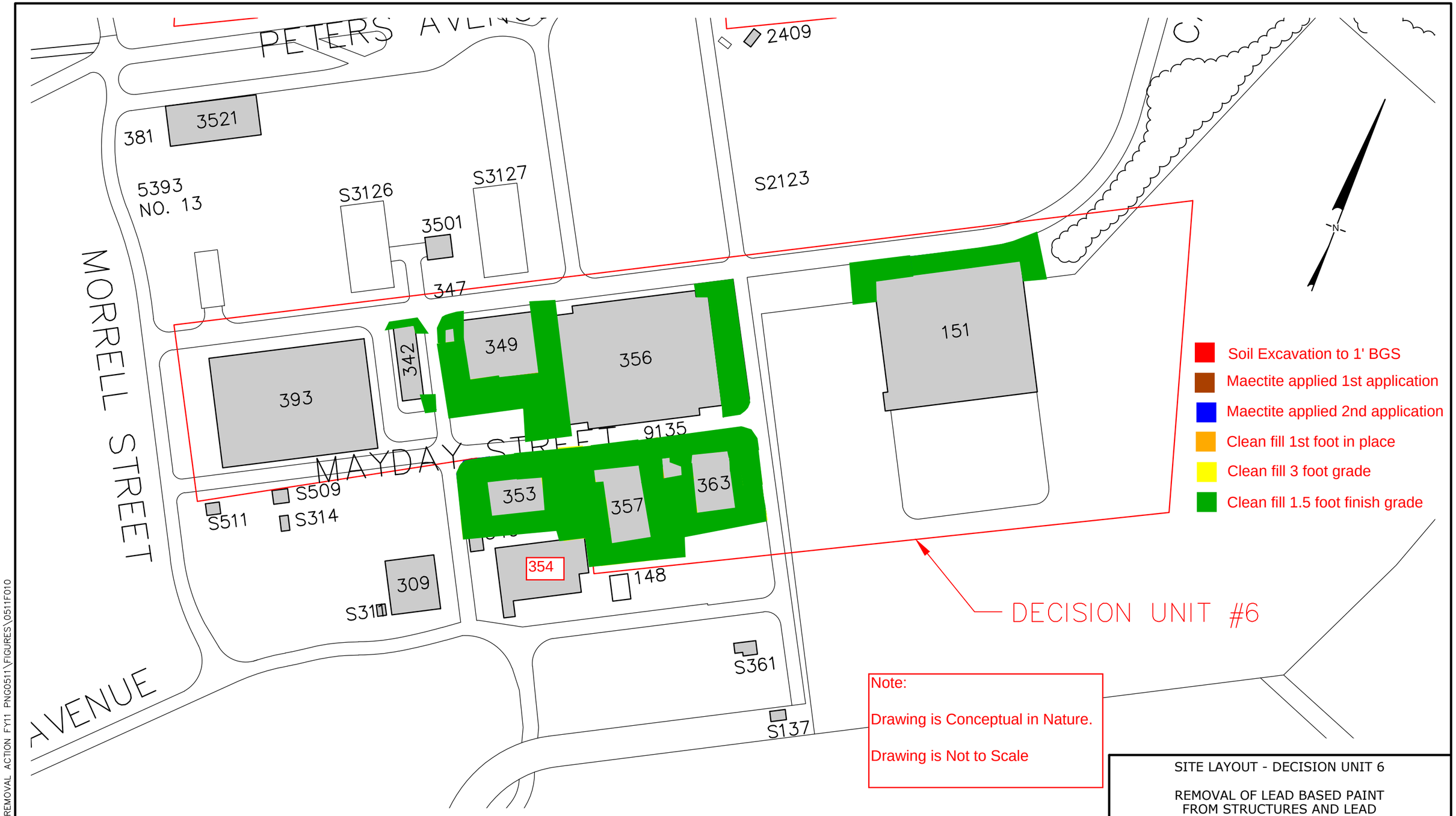
Photo 03: NWDE laying shade cloth over the clean sand backfill at Bldg 151.

Photo 04: NWDE laying shade cloth over backfill at Bldg 151.

Photo 5: NWDE completed shade cloth at Bldg 151.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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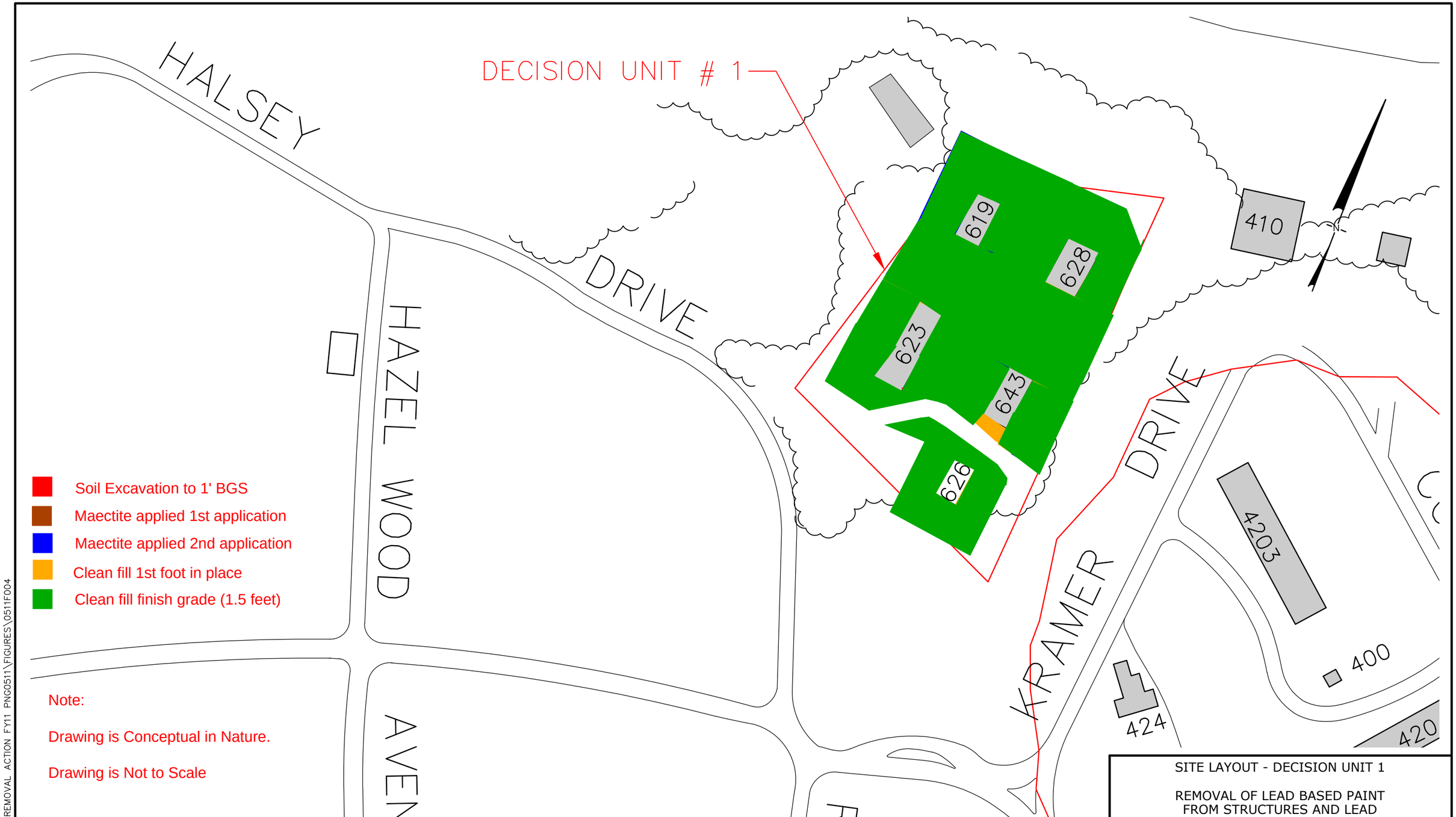

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 12, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, No Wind

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	7
Everett White	NWDE Super	7
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	-
Mike Saiki	NWDE Operator	-
Jose Ordaz	NWDE Operator	-
Jevon Stone	NWDE Operator	7.5
Sean Monear	NWDE Operator	7.5
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	10

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	33 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (J. Smith, A. Phillips, J. Stone, S. Monear) work on punchlist items and cleaning up area at DU1. Punchlist items include 1) cleaning up the small fragments of demolition debris that remain within the footprint of the 4 buildings, 2) picking up the remaining trash area wide, 3) adding a section of shadecloth to the NE corner of the DU to prevent birds from burrowing underneath, 4) moving the remaining concrete foundation piers to the corners of the footprints of the buildings to demarcate the footprints, and 5) moving 2 historical artifacts for safe keeping.

1115 – NWDE continues with cleanup and punchlist items at DU1.

1200 – Lunch.

1230 – NWDE resumes punchlist work at DU1.

1600 – NWDE (A. Phillips, J. Smith, C. Nelson) cover the remaining portion of the active cell at the R-2 Unit.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/18/12	-	-	-	7,208	902	7,447
08/20/12	-	856	-	8,064	396	7,843
08/21/12	-	527	-	8,591	616	8,459
08/22/12	-	293	-	8,884	968	9,427
08/23/12	-	539	-	9,423	616	10,043
08/24/12	-	617	-	10,040	176	10,219
08/25/12	-	-	-	10,040	-	10,219
08/27/12	-	365	-	10,405	-	10,219
08/28/12	-	-	-	10,405	-	10,219
08/29/12	-	-	-	10,405	-	10,219
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
9/12/12	-	-	-	11,113	-	10,945

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/18/12	-	11,748	-	-	-
08/20/12	-	11,748	-	-	-
08/21/12	-	11,748	-	-	-
08/22/12	-	11,748	-	-	-
08/23/12	-	11,748	-	-	-
08/24/12	-	11,748	-	-	-
08/25/12	-	11,748	-	-	-
08/27/12	-	11,748	-	-	-
08/28/12	-	11,748	902	-	902
08/29/12	-	11,748	1,078	-	1,980
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12	0	0	0	0	0
09/12/12	0	1	0	0	0
09/13/12					
09/14/12					
09/15/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

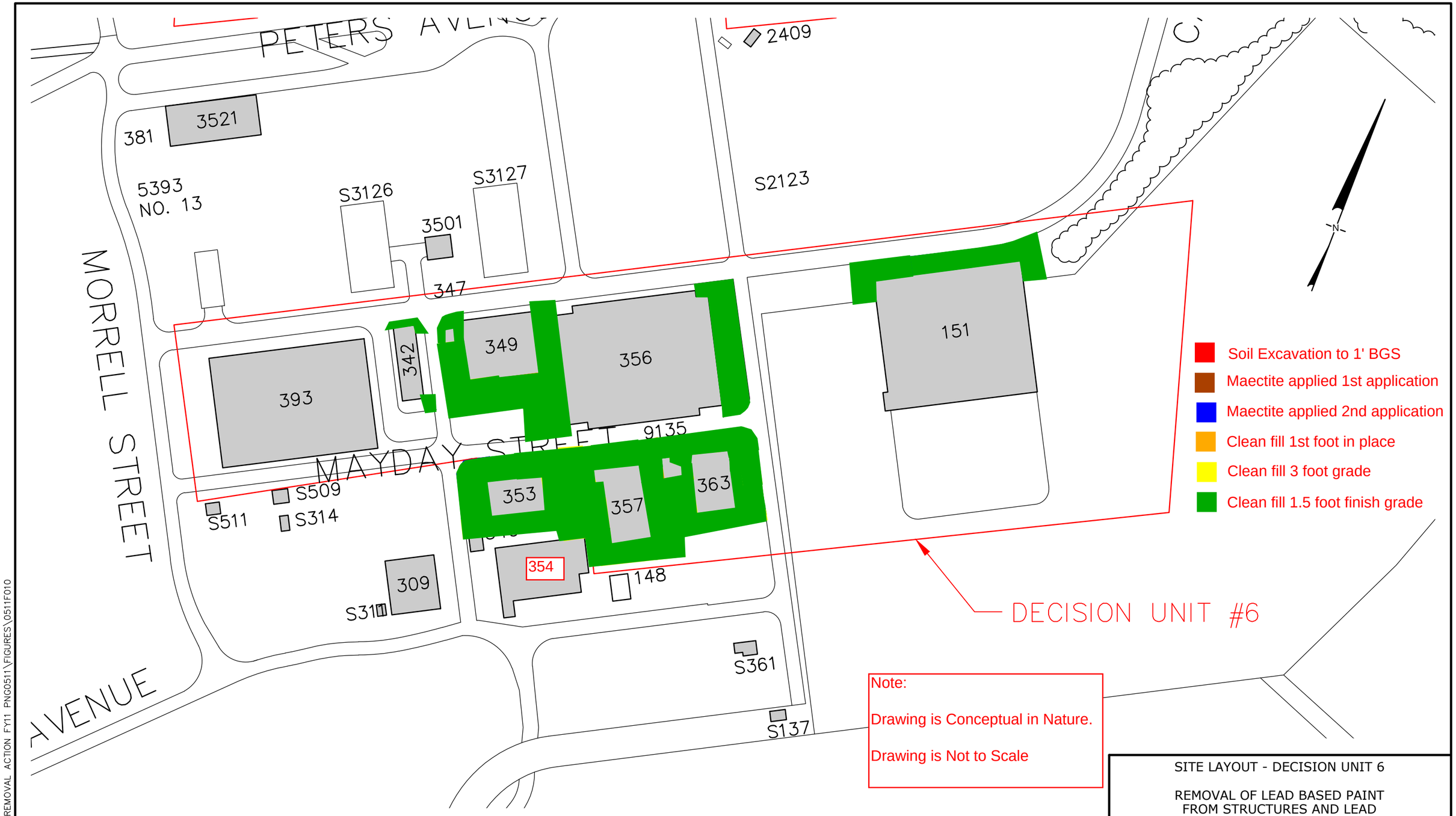
Photo 01: NWDE cleaning up remaining demolition debris and smoothing out sand within the footprint of Bldg 619.

Photo 02: NWDE added a section of shadecloth to northern edge of DU1 to prevent birds from burrowing underneath..

Photo 03: NWDE placing footer piers at corners of the footprint for Bldg 623.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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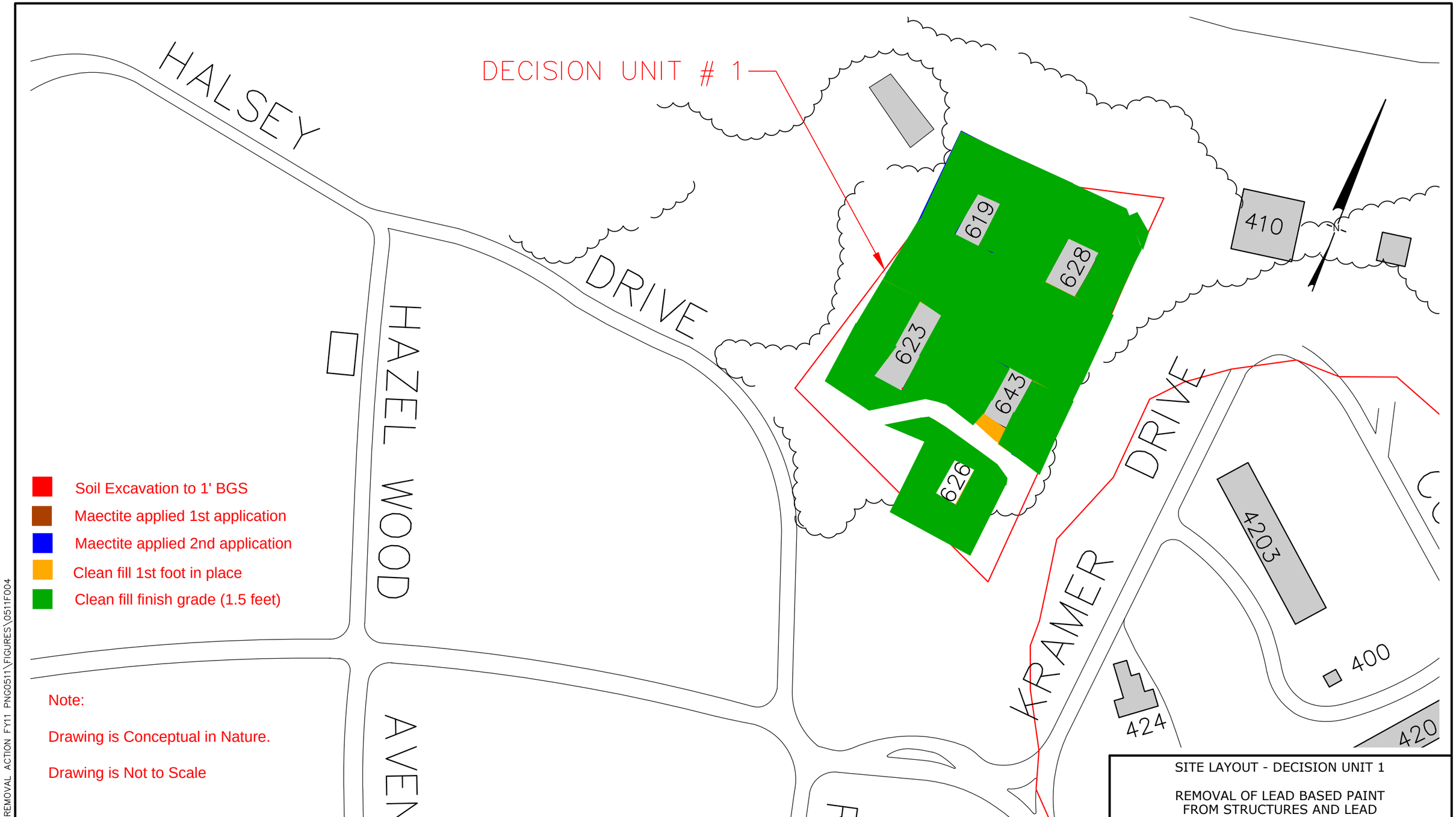

NOTES:

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 13, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the upper 80's, Partly Cloudy, Light Wind

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	10
Dave Hard	NWDE Operator	-
Mike Saiki	NWDE Operator	3
Jose Ordaz	NWDE Operator	-
Jevon Stone	NWDE Operator	5
Sean Monear	NWDE Operator	3
Joel Smith	NWDE Laborer	6
Christian Nelson	NWDE Laborer	6

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	44 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (J. Smith, A. Phillips, C. Nelson) begin removing shadecloth from west side of Bldg 393 in advance of treating the soil / sand with Maectite.

1020 – NWDE is applying the 1st application of Maectite. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows to a uniform appearance.

11 45 – NWDE continues with applying the 1st application of Maectite.

1200 – Lunch.

~1230 – NWDE (J. Stone, J. Smith) begins excavating treated soil / sand to 1 foot below grade.

1525 – NWDE continues excavating treated soil west of Bldg 393. Treated soil is being hauled to the R-2 Unit.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/30/12	-	-	-	10,405	-	10,219
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
0913/12	355	-	-	11,468	374	11,319

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/30/12	-	11,748	-	1,210	3,190
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12	0	0	0	0	0
09/12/12	0	1	0	0	0
09/13/12	0	0	0	0	0
09/14/12					
09/15/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

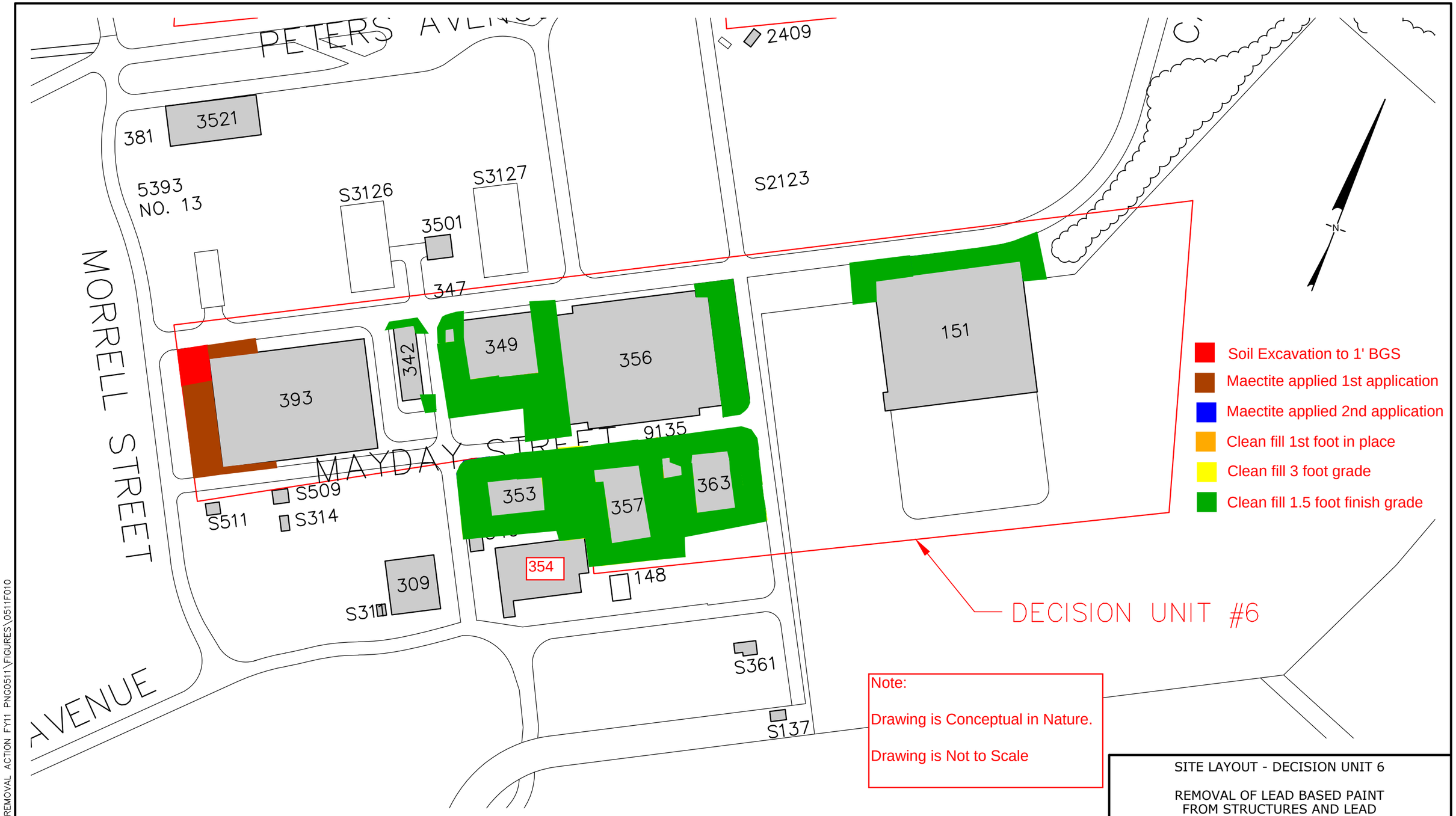
Photo 01: NWDE is removing shadecloth west of Bldg 393.

Photo 02: NWDE is applying the 1st application of Maectite west of Bldg 393..

Photo 03: NWDE is excavating treated soil to 1 foot bgs west of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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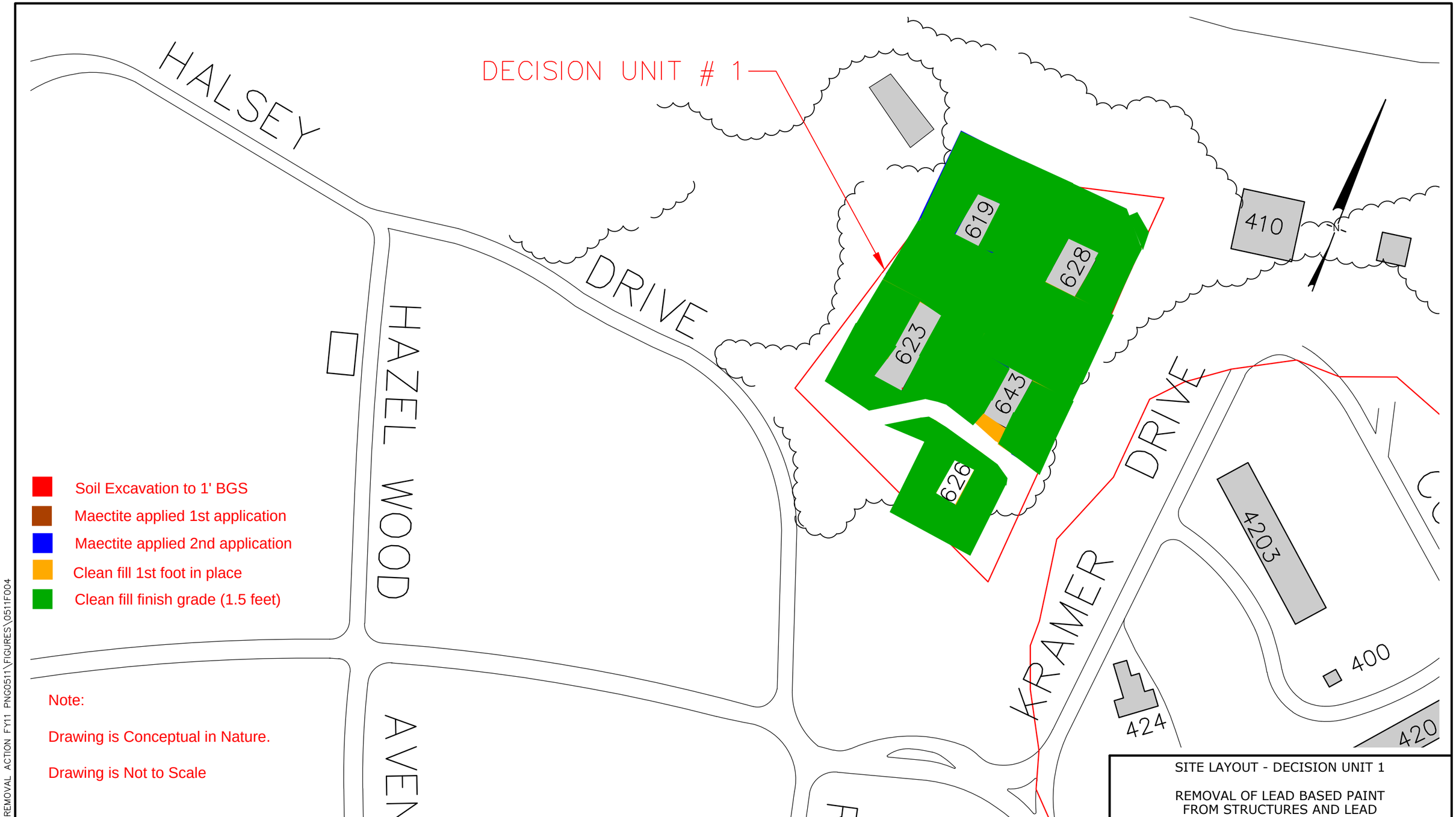

NOTES:

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 14, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind, Rain from the night before has saturated the site.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	3
Dave Hard	NWDE Operator	2.5
Mike Saiki	NWDE Operator	7.5
Jose Ordaz	NWDE Operator	-
Jevon Stone	NWDE Operator	9
Sean Monear	NWDE Operator	2.5
Joel Smith	NWDE Laborer	3.5
Christian Nelson	NWDE Laborer	-

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		2.5 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	45 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (J. Stone, S. Monear, M. Saiki, J. Smith) continues the treated soil / sand excavation to 1 foot below ground surface west of Bldg 393. Excavated soil / sand is being hauled to the R-2 unit.

NWDE (E. White) is smoothing out the piles of soil / sand in the R-2 Unit that were hauled in the day before. Soil / sand piles are smoothed out to prevent ponding in the two southern cells of the R-2 unit to discourage ducks from entering and using the R-2 unit.

M. Schott collects 2 aliquots representative of yesterday's hauling for the R-2 Unit MEP sample.

1100 – NWDE continues the treated soil / sand excavation south of Bldg 393. Excavated soil / sand is being hauled to the R-2 unit.

1200 – Lunch.

1230 – NWDE (J. Stone, M. Saiki) resumes the treated soil / sand excavation.

1330 – NWDE has moved to the north side of Bldg 393 to continue the treated soil / sand excavation south of Bldg 393. Excavated soil / sand is being hauled to the R-2 unit.

1500 – M. Schott and NWDE (J. Stone) remove the shade cloth and perform a series of tests pits along the remainder of the north and south sides of the building to prepare and plan for soil / sand treatment, excavation, and sampling. The shade cloth was temporarily replaced until Maectite treatment is ready to proceed.

1630 – M. Schott collects 2 aliquots representative of today's hauling for the R-2 Unit MEP sample.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
08/31/12	-	-	-	10,405	-	10,219
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
08/31/12	-	11,748	-	1,210	4,400
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12	0	0	0	0	0
09/12/12	0	1	0	0	0
09/13/12	0	0	0	0	0
09/14/12	0	0	0	0	0
09/15/12					

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

Photo 01: NWDE is resuming the soil / sand excavation west of Bldg 393.

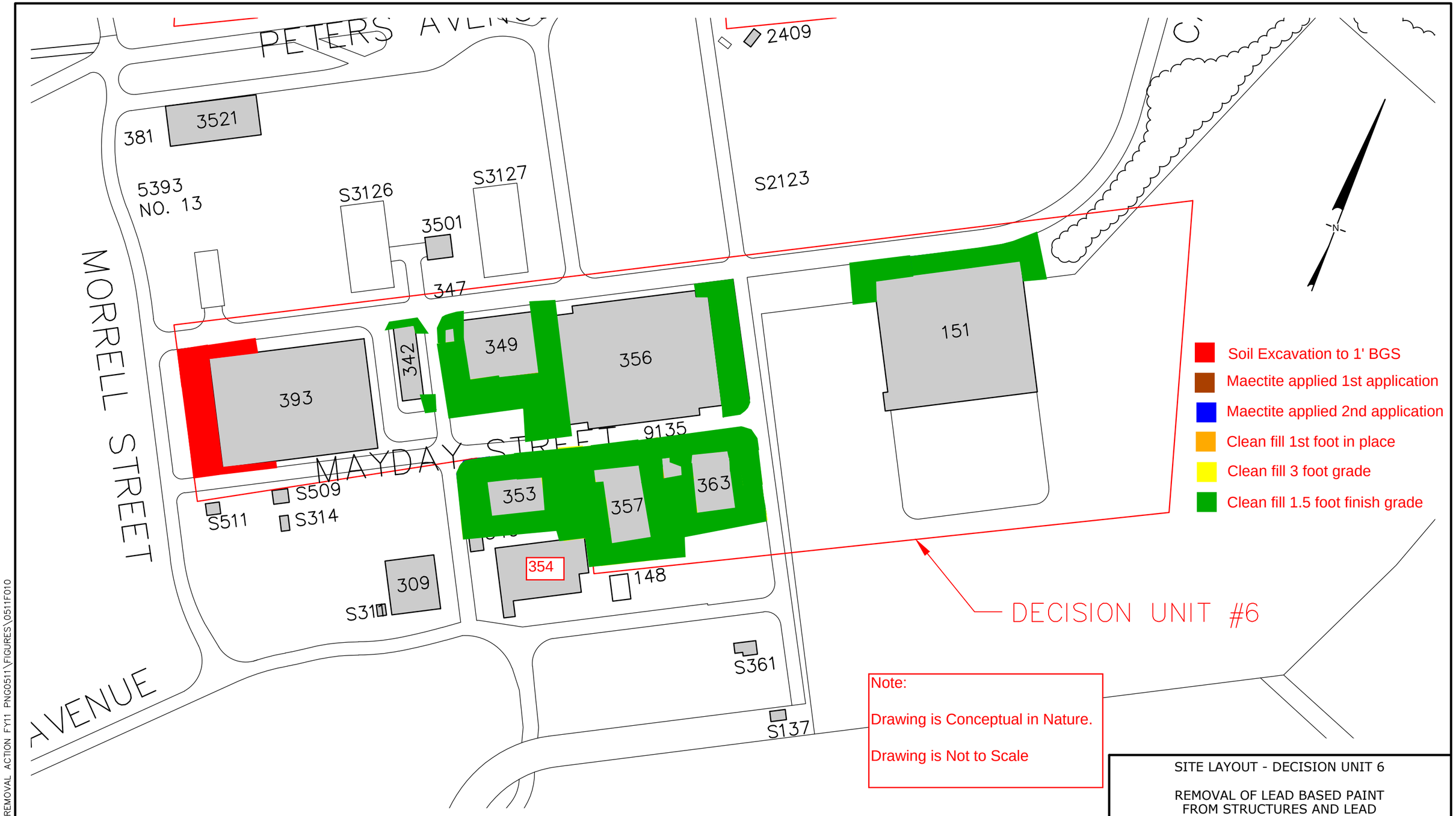
Photo 02: NWDE is continuing the soil / sand excavation west and south of Bldg 393..

Photo 03: NWDE has completed the soil / sand excavation south of Bldg 393.

Photo 04: NWDE has completed a portion of the soil / sand excavation north of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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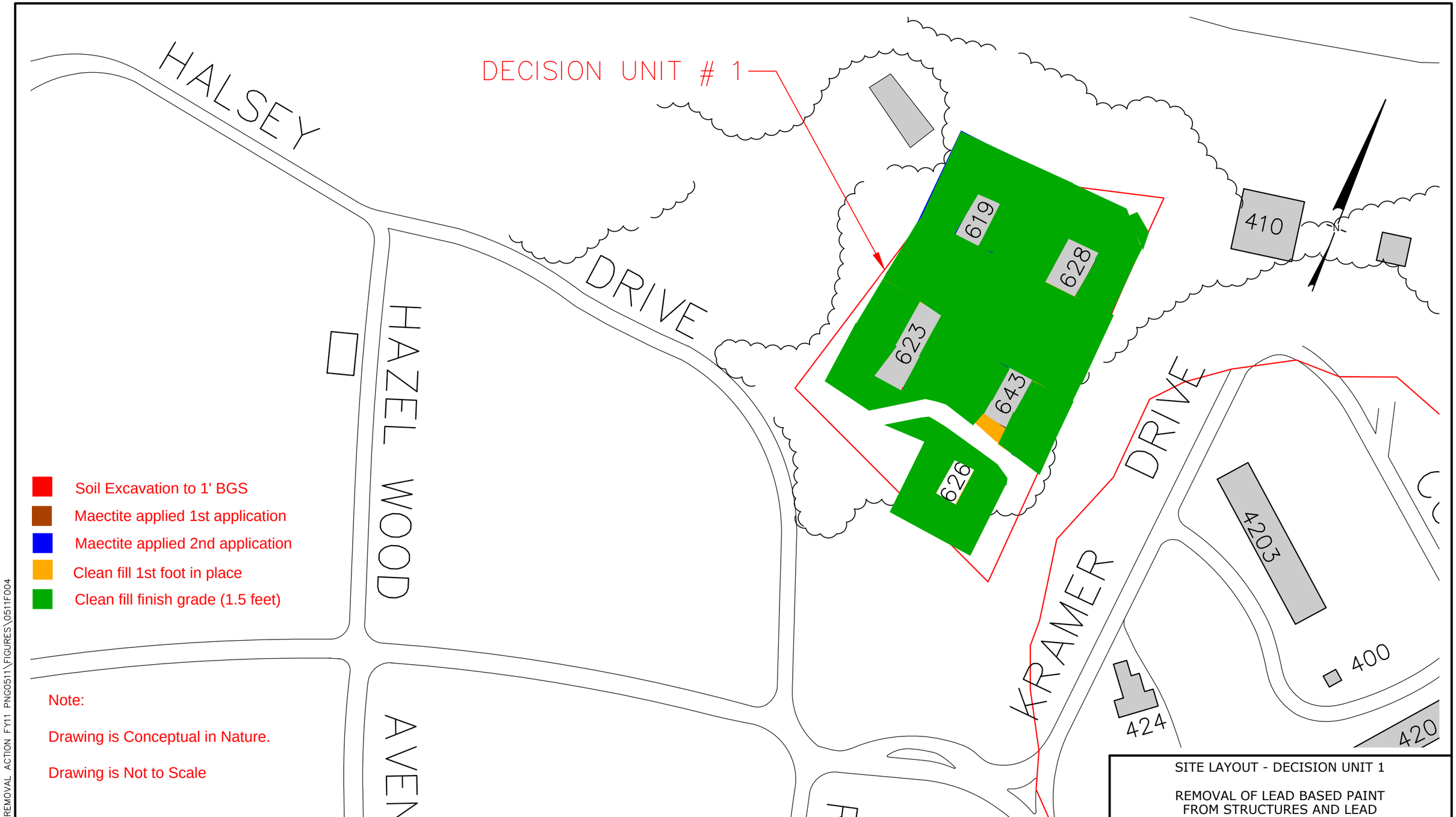

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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Daily Field Report

Date: Saturday, September 15, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy to overcast, No Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	-
Mike Saiki	NWDE Operator	-
Jose Ordaz	NWDE Operator	5
Jevon Stone	NWDE Operator	5
Sean Monear	NWDE Operator	-
Joel Smith	NWDE Laborer	5
Christian Nelson	NWDE Laborer	5

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0.6 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	104 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 – M. Schott begins to collect the MIS/ICS sample associated with Bldg 393 from the base of the soil excavation along the west side and at the north and southwest corners of the building.

~0930 – M. Schott completes sample collection for the day.

1200 – Lunch.

1230 – NWDE (J. Stone, J. Smith, C. Nelson) begin applying the 2nd application of Maectite on the base of the excavation west of and at the south and north west corners of Bldg 393. Full strength Maectite is being applied at a rate of 0.75 gallons per CY of soil. Raking /mixing of the soil to a depth of 1 foot bgs follows with wetting with water to a uniform appearance.

1330 – Area west of and at the north and southwestern corners of the building is being smoothed out after the raking process associated with the Maectite application process and in advance of shadecloth (witness layer) placement.

~1530 – Maectite application is complete and the area has been smoothed flat. NWDE begins placing the shadecloth (witness layer) at the base of the excavation.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/15/12	358	-	-	11,826	-	11,561

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/15/12	-	12,298	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	PVC Pipe
09/10/12	0	0	0	0	0
09/11/12	0	0	0	0	0
09/12/12	0	1	0	0	0
09/13/12	0	0	0	0	0
09/14/12	0	0	0	0	0
09/15/12	0	0	0	0	0

Notes: Concrete Loads are hauled to and deposited in the R-2 unit.
Clean concrete, metal, PVC pipe, and clean wood loads are all hauled and deposited in to separate project stockpiles located near the Sea Plane Hangar.

Photographs:

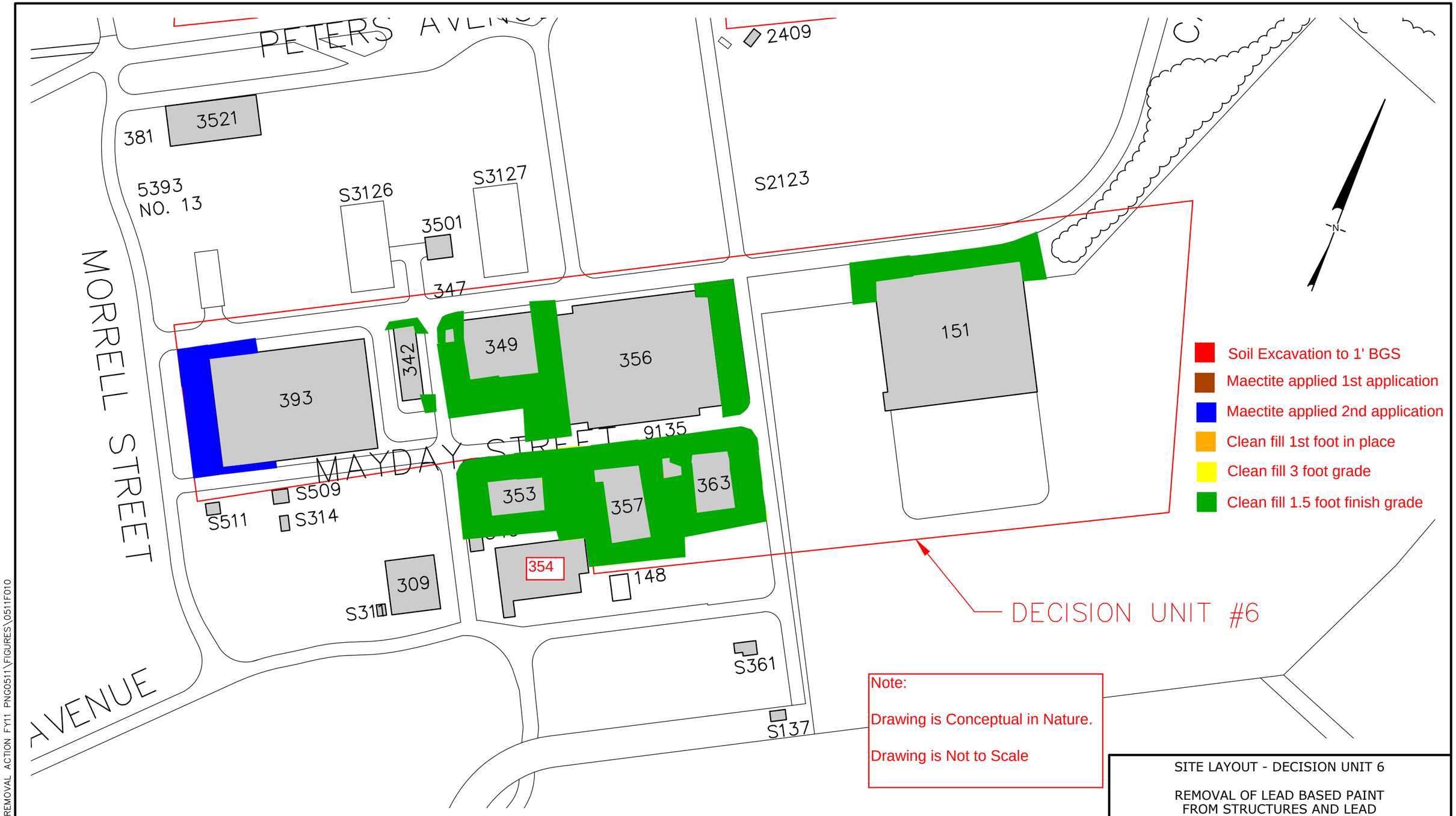
Photo 01: Northwest corner of the soil excavation associated Bldg 393.

Photo 02: NWDE is applying the 2nd application of Maectite west of Bldg 393..

Photo 03: NWDE is mixing / raking the soil after the 2nd application of Maectite west of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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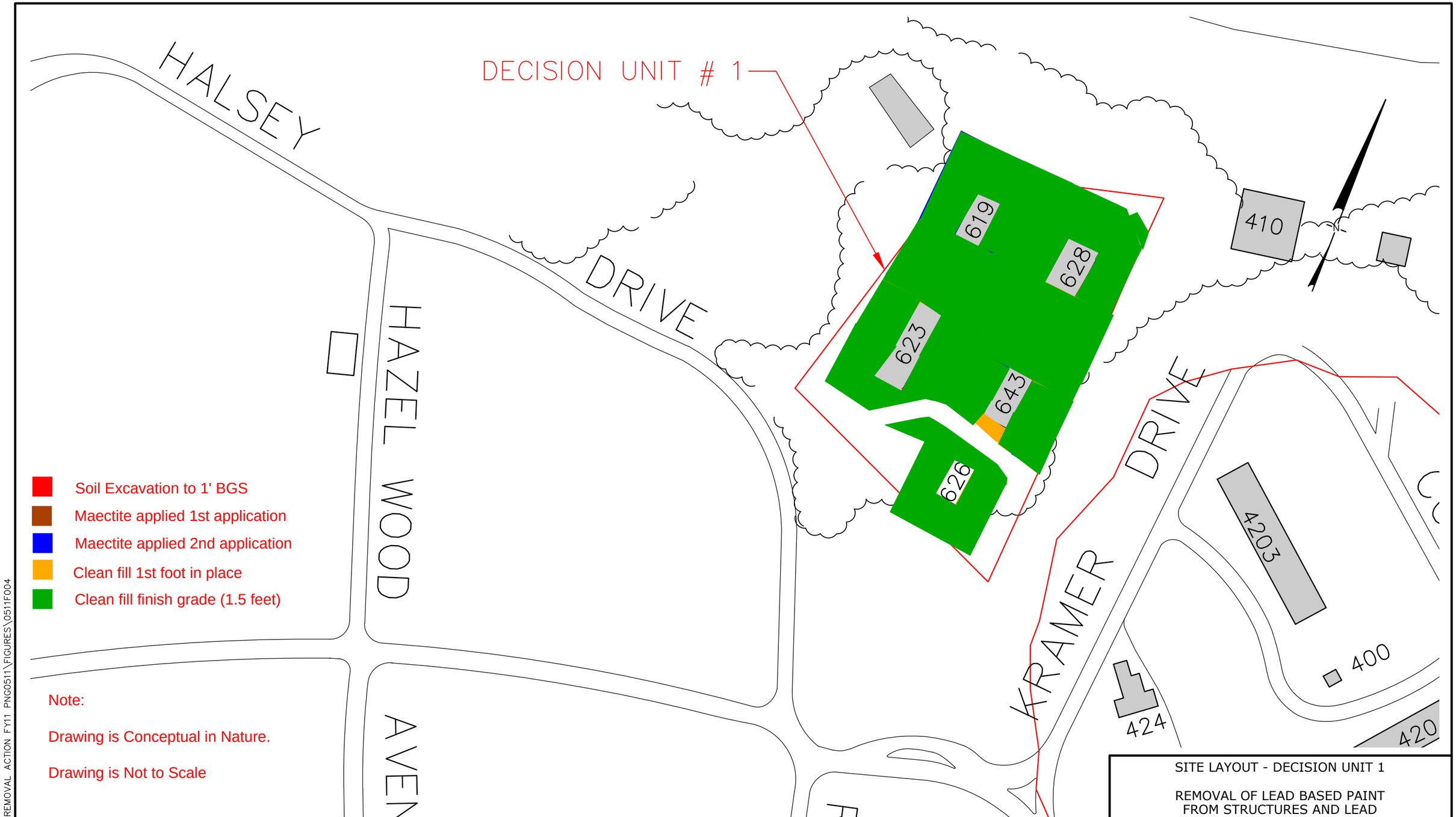

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 17, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	-
Mike Saiki	NWDE Operator	2
Jose Ordaz	NWDE Operator	5
Jevon Stone	NWDE Operator	10
Sean Monear	NWDE Operator	2
Joel Smith	NWDE Laborer	10
Christian Nelson	NWDE Laborer	5

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		1.2 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	25 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (J. Stone, C. Nelson, J. Smith) begin removing shade cloth along the north side of Bldg 393.

0830 – NWDE is applying the 1st application of Maectite along the north side of Bldg 393. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows to a uniform appearance.

0945 – NWDE is excavating along the north side of Bldg 393 to 1 foot bgs. Treated soil is being hauled to the R-2 Unit.

1045 - NWDE is applying the 1st application of Maectite along the south side of Bldg 393. Full strength Maectite is being applied at a rate of 0.75 gallons of Maectite per CY of soil. Raking to mix Maectite with wetting with water follows to a uniform appearance.

1200 – Lunch.

1230 – NWDE resumes hauling treated soil from the north side of Bldg 393. Treated soil is being hauled to the R-2 unit.

1410 – NWDE continues the soil excavation to 1 foot bgs north of Bldg 393. Treated soil is being hauled to the R-2 Unit.

NWDE continues the soil excavation to 1 foot bgs south of Bldg 393. Treated soil is being hauled to the R-2 Unit.

1530 - NWDE continues the soil excavation to 1 foot bgs south of Bldg 393. Treated soil is being hauled to the R-2 Unit.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/01/12	-	-	-	10,405	-	10,219
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/01/12	-	11,748	-	924	5,324
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Photographs:

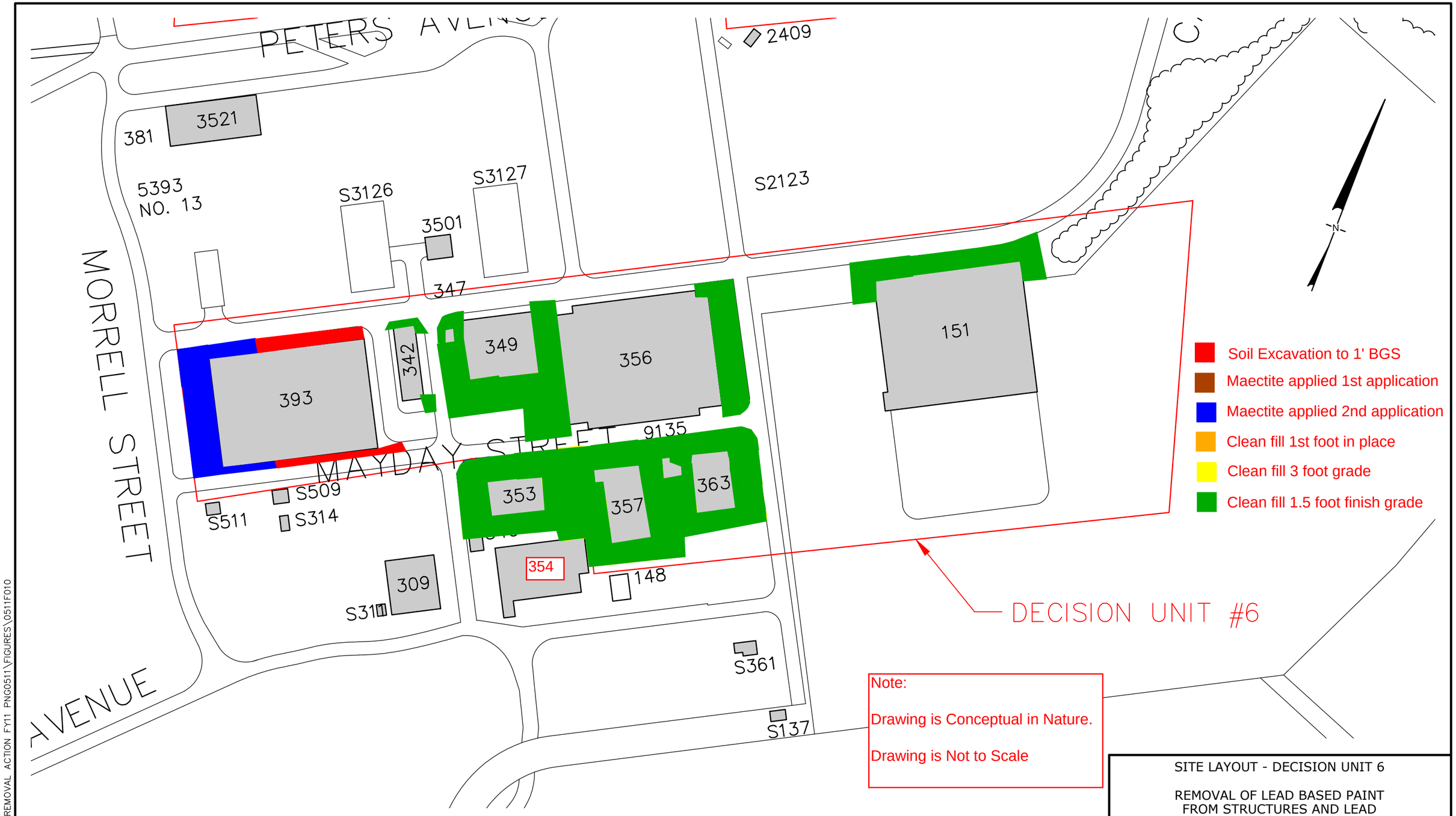
Photo 01: NWDE is resuming the soil excavation north of Bldg 393.

Photo 02: NWDE is continuing the soil excavation north of Bldg 393..

Photo 03: NWDE is excavating along the south side of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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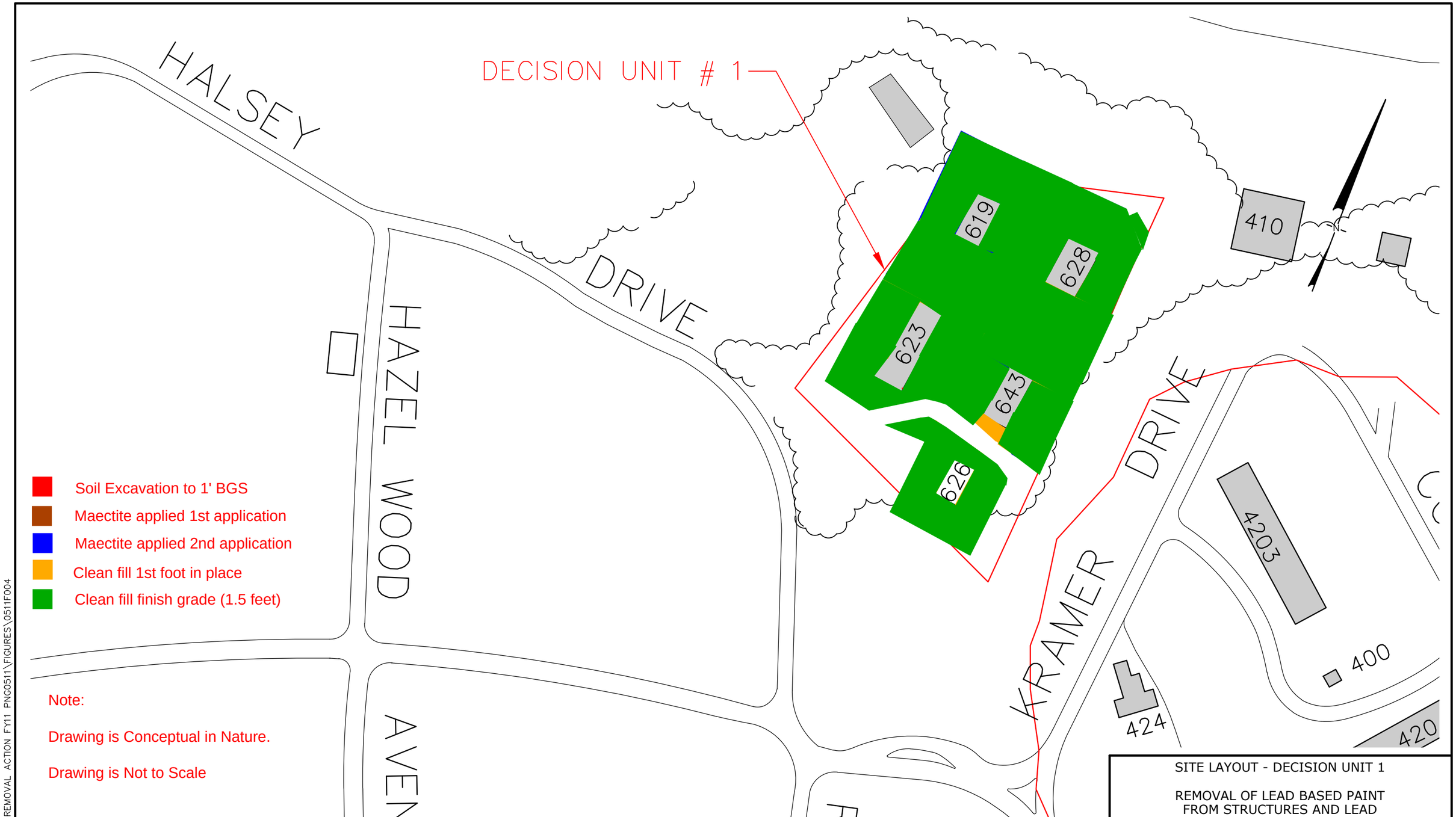

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 18, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the upper 80's, Clear to Partly Cloudy, No Wind, Rain shower in the afternoon.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	10
Mike Saiki	NWDE Operator	10
Jose Ordaz	NWDE Operator	7
Jevon Stone	NWDE Operator	8
Sean Monear	NWDE Operator	7
Joel Smith	NWDE Laborer	9
Christian Nelson	NWDE Laborer	5

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	160 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 - NWDE (D. Hard, C. Nelson, J. Ordaz) are changing the bucket on the Volvo excavator and cleaning the tracks off to move it to the beach area (clean backfill source area) at the Cargo and Fuel piers.

0800 – M. Schott resumes MIS / ICS sampling of the base of the excavation associated with Bldg 393. M. Schott resumes sampling the excavation floor along the north and south side the building.

0835 – NWDE is hauling clean sand backfill and is placing / leveling out the backfill west of Bldg 393. The first 1 foot of backfill is being placed.

0845 – M. Schott collects 1 aliquot for the R-2 Unit MEP sample. The aliqot is representative of yesterday's treated soil placed in the R-2 Unit.

0950 – M. Schott completes sampling the base of the excavation associated with Bldg 393.

1200 – Lunch.

1230 – NWDE (D. Hard, J.Ordaz, S. Monear, M. Saiki) resume hauling and placing / leveling the first 1 foot of clean sand backfill west of Bldg 393.

1315 – NWDE is applying the 2nd application of Maectite on the base of the excavation north of Bldg 393. Full strength Maectite is being applied at a rate of 0.75 gallons per CY of soil. Raking /mixing of the soil to a depth of 1 foot bgs follows with wetting with water to a uniform appearance.

1630 – NWDE is hauling and placing / leveling the first 1 foot of clean sand backfill north and south of Bldg 393.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/04/12	-	-	-	10,405	-	10,219
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803
09/18/12	181			11,798	-	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/04/12	-	11,748	-	1,298	6,622
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470
09/18/12	1,188	13,486	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Photographs:

Photo 01: NWDE is beginning placement of clean backfill west of Bldg 393.

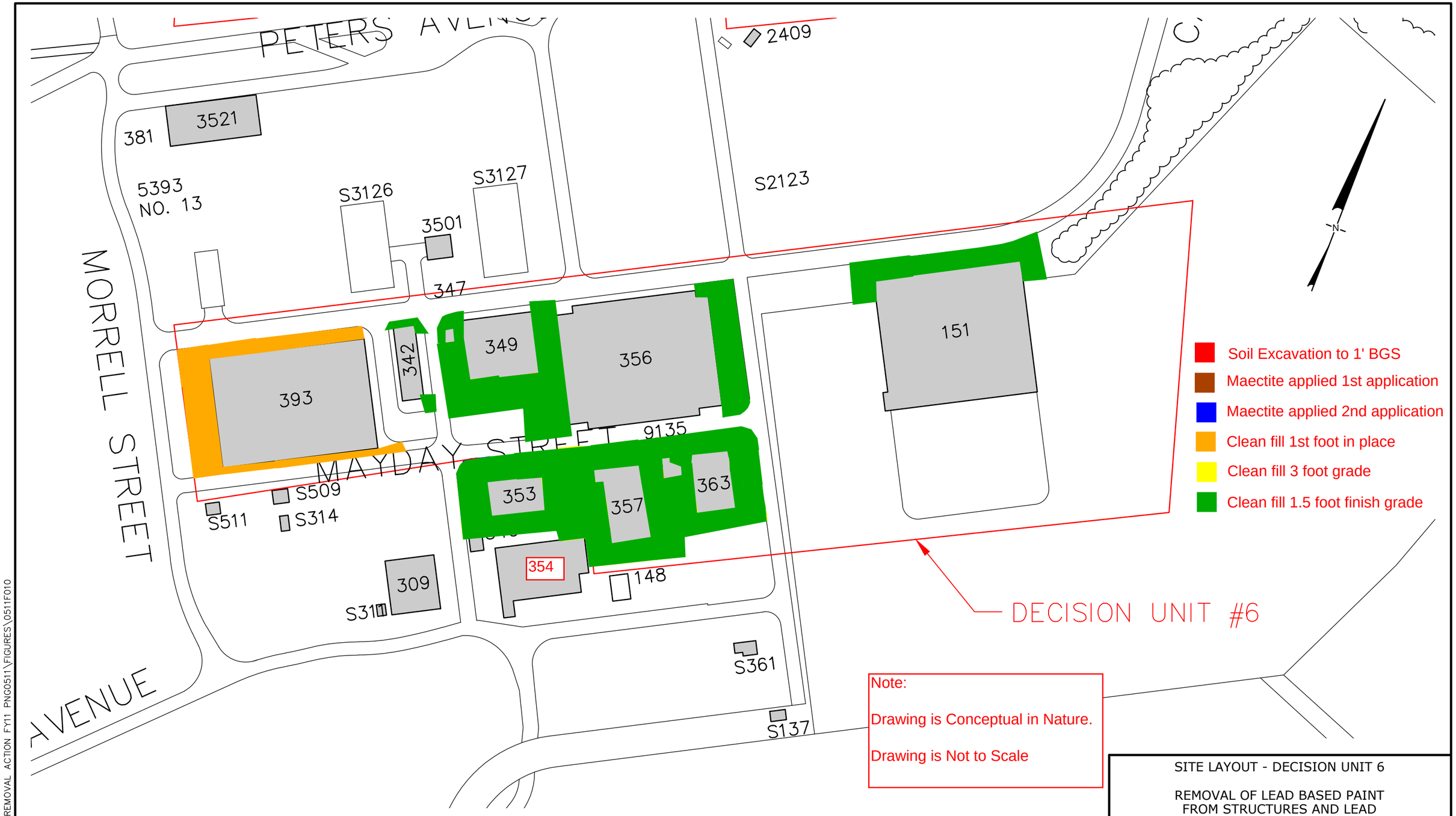
Photo 02: NWDE is applying the 2nd application of Maectite north of Bldg 393..

Photo 03: NWDE is placing / leveling the 1st 1 foot of backfill west of Bldg 393.

Photo 04: NWDE is placing / leveling the 1st 1 foot of backfill west of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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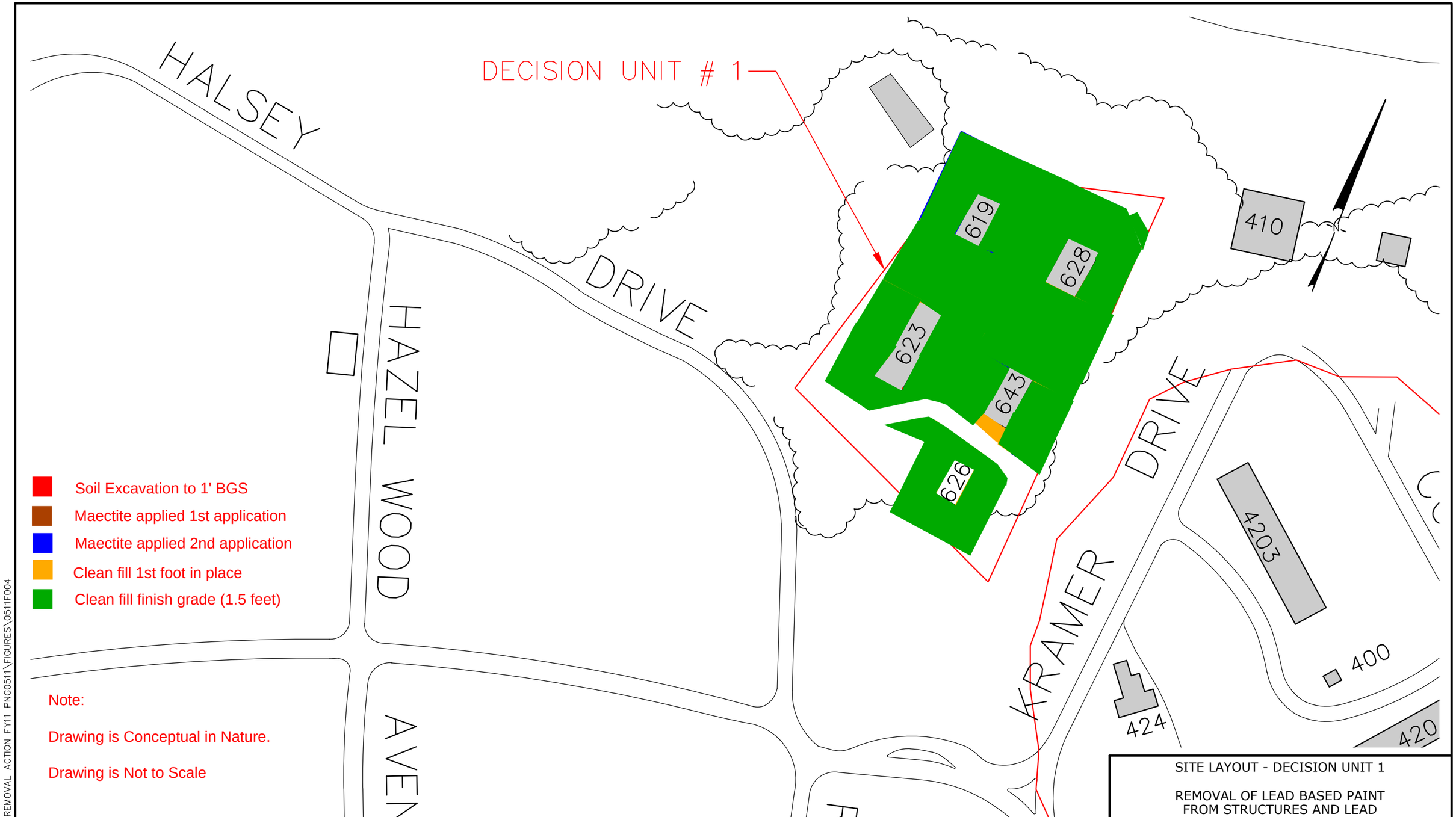

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 19, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	1
Mike Saiki	NWDE Operator	-
Jose Ordaz	NWDE Operator	3
Jevon Stone	NWDE Operator	1
Sean Monear	NWDE Operator	-
Joel Smith	NWDE Laborer	7
Christian Nelson	NWDE Laborer	3

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		1.2 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	75 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0720 - NWDE (C. Nelson, J. Ordaz, J. Smith) are moving shade cloth and sandbags to the R-2 Unit in preparation for covering the soil placed in the 2 southern cells for the end of season.

NWDE (D. Hard) is leveling the piles of treated soil placed in the 2 southern cells of the R-2 Unit to try to prevent water from ponding in the cells.

0840 – NWDE is removing debris larger than 6 inches in diameter from the soil layer in the 2 southern cell of the R-2 Unit. NWDE is beginning to place shade cloth down over the soil layer and secure with sandbags.

1050 – NWDE (J. Ordaz) resumes leveling out the 1st foot of clean sand backfill west and north of Bldg 393.

1200 – Lunch.

1405 – NWDE (J. Ordaz) continues leveling out the 1st foot of clean sand backfill west and north of Bldg 393.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/05/12	-	51	-	10,456	-	10,219
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803
09/18/12	181	-	-	11,798	-	11,803
09/19/12	-	-	-	11,798	-	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/05/12	-	11.748	-	330	6,952
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470
09/18/12	1,188	13,486	-	-	8,470
09/19/12	-	13,486	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Photographs:

Photo 01: NWDE is placing shade cloth over the soil placed in the southern 2 cells of the R-2 Unit.

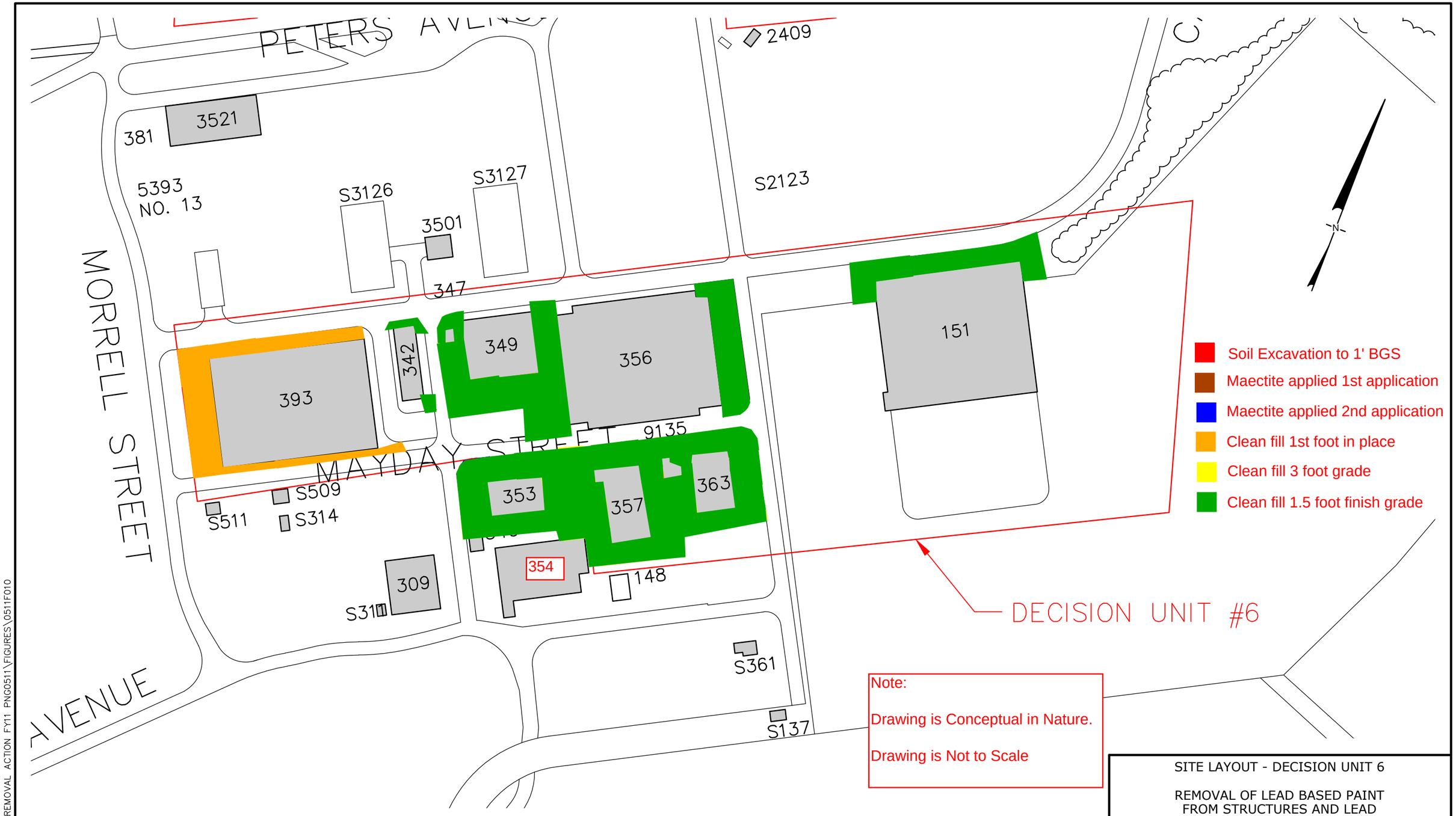
Photo 02: NWDE continues to level the 1st foot of clean sand backfill north of Bldg 393..

Photo 03: Shade cloth in placed for end of the season cover in the southern 2 cells.

Photo 04: 1st foot of clean backfill sand west of Bldg 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



NOTES:

1. THE LOCATION OF ALL FEATURES SHOWN ARE APPROXIMATE.
2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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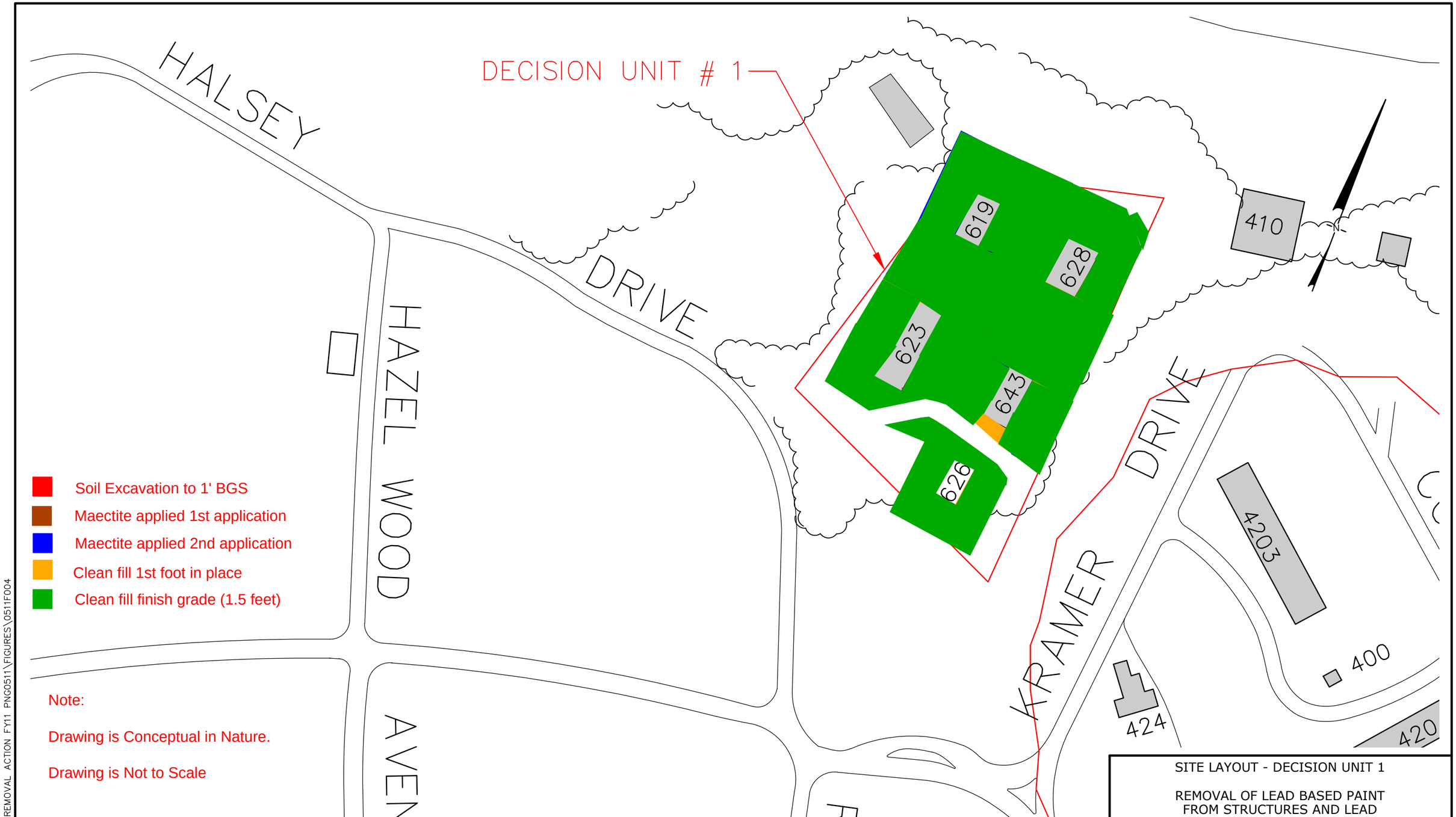

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 20, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	5
Everett White	NWDE Super	5
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	5
Mike Saiki	NWDE Operator	5
Jose Ordaz	NWDE Operator	5

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0950 - NWDE (J. Ordaz) resumes leveling clean sand backfill to 6 inches above the original grade.

1100 – NWDE (D. Hard) moves the Volvo excavator to the borrow source area (beach between Fuel and Cargo piers) to resume loading and hauling clean sand backfill. Clean sand is being hauled to the area surrounding Bldg 393 for backfill to 6 inches above the original grade.

1150 – G2 plane flies off island with J. Stone, S. Monear, C. Nelson, J. Smith.

1200 – Lunch.

1230 – NWDE resumes leveling / grading clean sand backfill to 6 inches above the original grade.

NWDE resumes hauling clean sand for backfill.

1600 – NWDE continues leveling / grading clean sand.

NWDE continues hauling clean sand for backfill.

1730 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/06/12	332	-	-	10,788	176	10,395
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803
09/18/12	181	-	-	11,798	-	11,803
09/19/12	-	-	-	11,798	-	11,803
09/20/12	-	-	-	11,798	-	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/06/12	-	11,748	-	242	7,194
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470
09/18/12	1,188	13,486	-	-	8,470
09/19/12	-	13,486	-	-	8,470
09/20/12	396	13,882	-	-	8,470

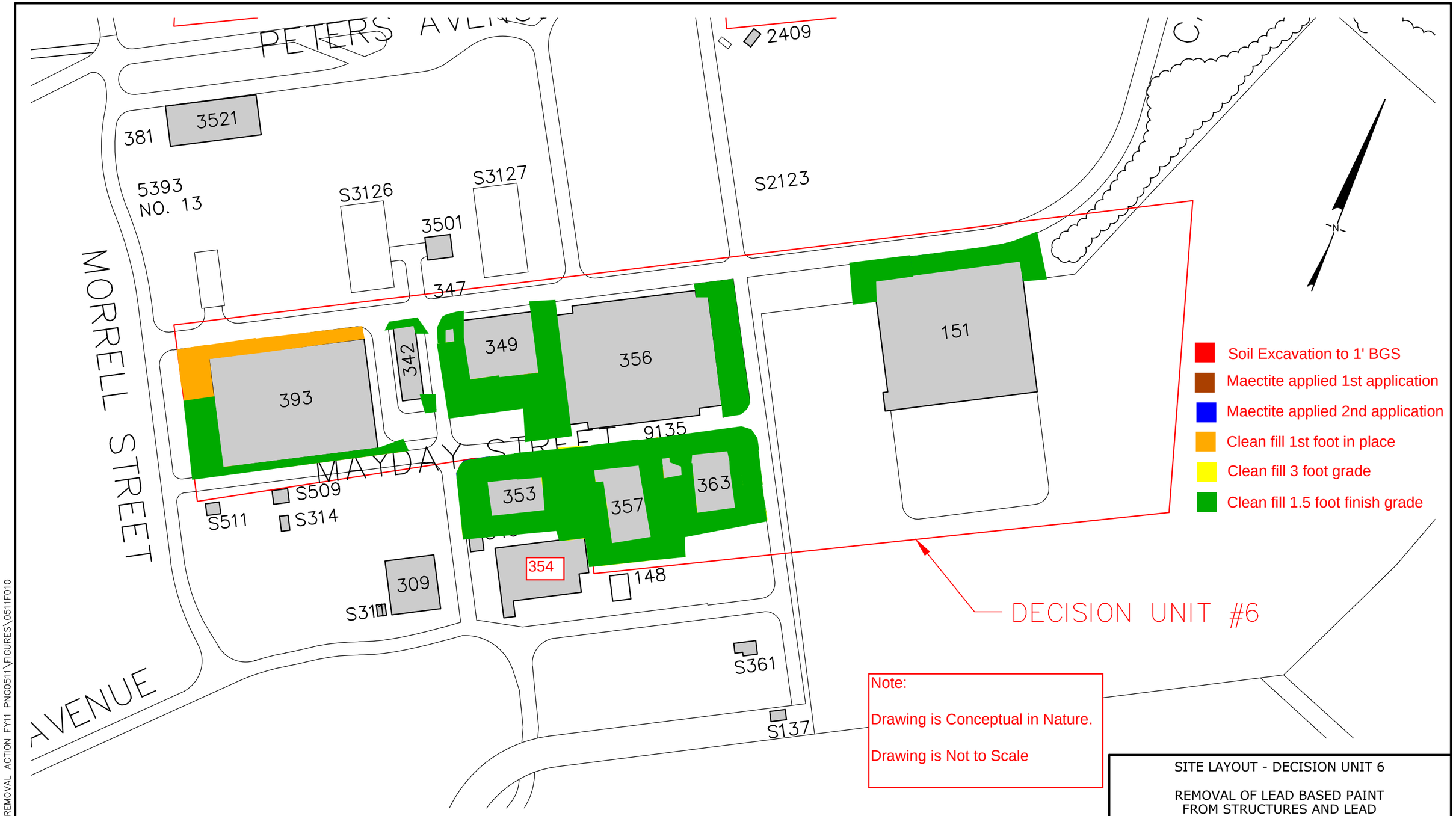
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Photographs:

Photo 01: NWDE is grading sand south of Bldg. 393 to 6 inches above the original grade.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



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0 150' 300'
SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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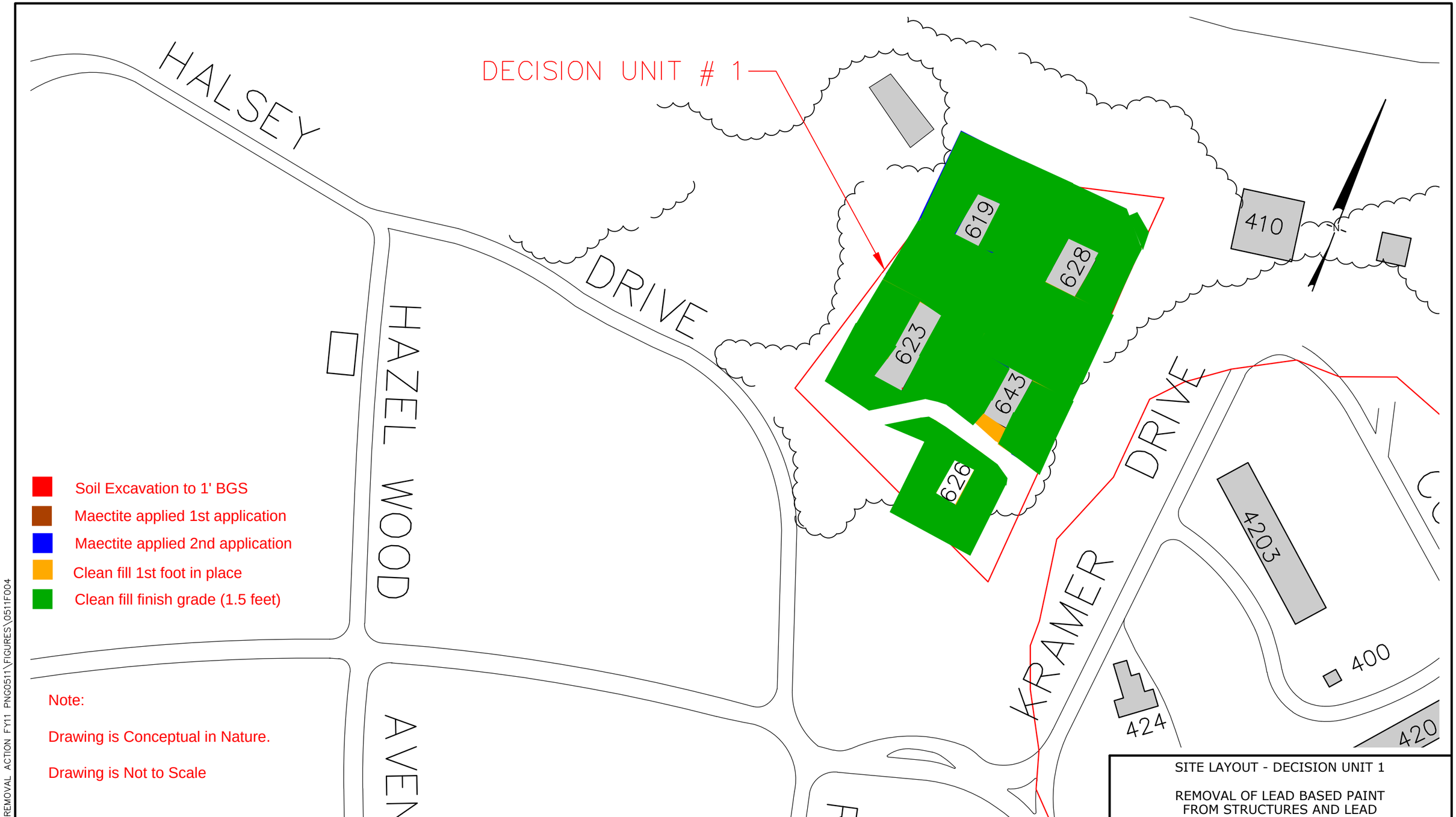

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 21, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the upper 80's, Clear to Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	4
Everett White	NWDE Super	4
Alan Phillips	NWDE Operator	-
Dave Hard	NWDE Operator	6
Mike Saiki	NWDE Operator	8
Jose Ordaz	NWDE Operator	6

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0740 - NWDE (D. Hard, M. Saiki) resumes hauling clean sand backfill from the area between the Cargo and Fuel Piers to the west side of Bldg. 393.

NWDE (J. Ordaz) resumes leveling the backfill to 6 inches above the original grade.

0900 – NWDE continues hauling clean sand backfill and leveling the backfill along the north side of Bldg. 393 to 6 inches above the original grade.

1045 – NWDE is cleaning up the edges of the backfill alongside both the northern and southern roads.

1200 – Lunch.

1230 - NWDE resumes cleaning up the edges of the backfill alongside both the northern and southern roads.

1530 – End of day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/07/12	-	-	-	10,788	374	10,769
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803
09/18/12	181	-	-	11,798	-	11,803
09/19/12	-	-	-	11,798	-	11,803
09/20/12	-	-	-	11,798	-	11,803
09/21/12	-	-	-	11,798	-	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/07/12	-	11,748	-	176	7,370
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470
09/18/12	1,188	13,486	-	-	8,470
09/19/12	-	13,486	-	-	8,470
09/20/12	396	13,882	-	-	8,470
09/21/12	286	14,168	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

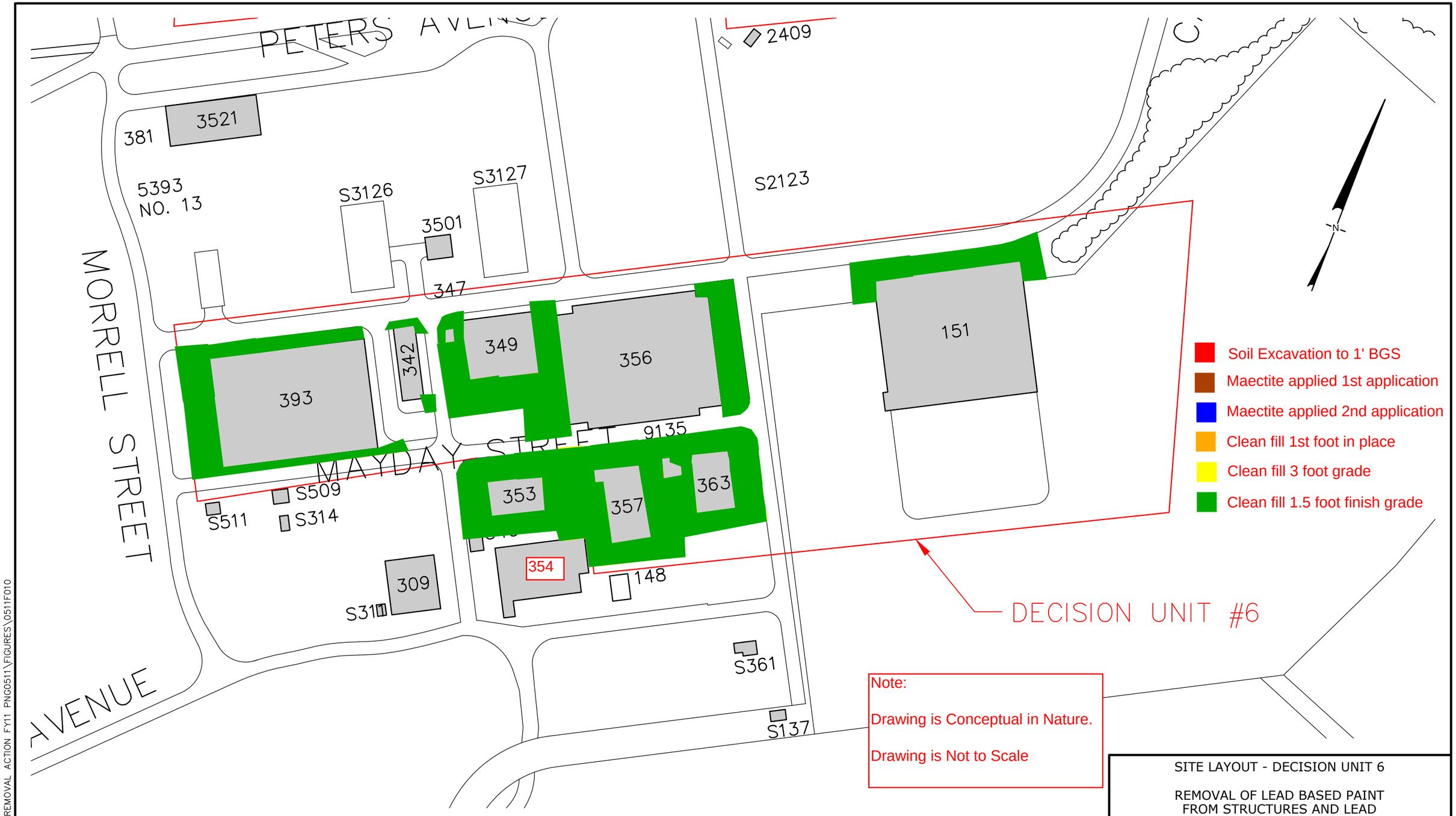
Photographs:

Photo 01: NWDE is hauling clean sand backfill from between the Cargo and Fuel piers.

Photo 02: NWDE continues leveling backfill to 6 inches above the original grade north of Bldg. 393.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



Note:

Drawing is Conceptual in Nature.

Drawing is Not to Scale

NOTES:

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2. THIS DRAWING IS FOR INFORMATION PURPOSES.

0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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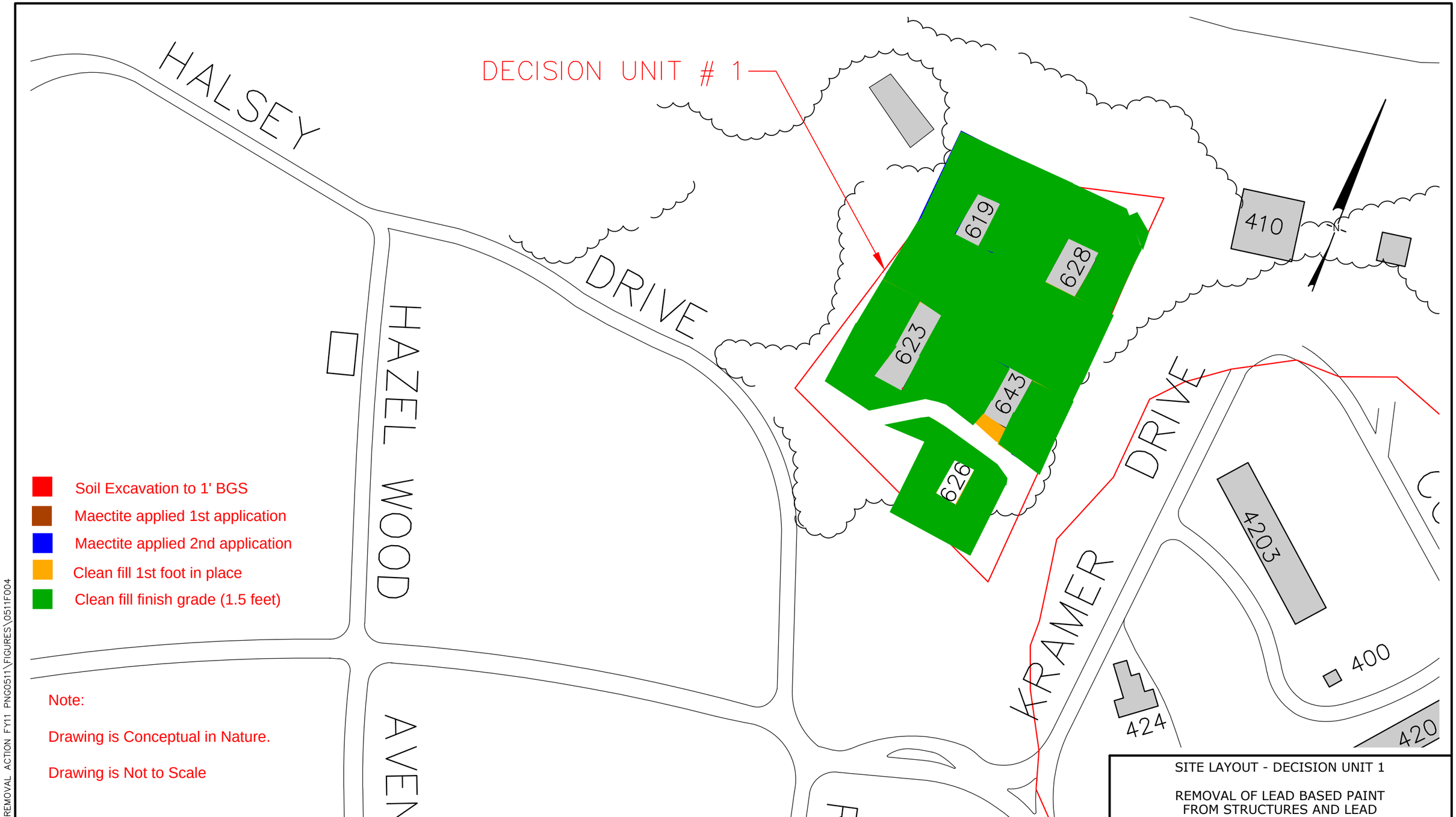

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 22, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	8
Everett White	NWDE Super	8
Alan Phillips	NWDE Operator	6
Dave Hard	NWDE Operator	8
Mike Saiki	NWDE Operator	8
Jose Ordaz	NWDE Operator	8

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE (D. Hard, M. Saiki, J Ordaz) replace a portion of the sandbags along the area north of the Sea Plane Hanger (Bldg 151) with “5-year” sandbags.

0900 – NWDE is cleaning up equipment and the staging area, organizing and inventorying supplies to preparation for next season.

~1000 – NWDE removes a load of metal debris from the R-2 unit and places it on the scrap stockpile near the Sea Plane Hanger.

1200 – Lunch.

1230 - NWDE resumes cleaning up equipment and the staging area, organizing and inventorying supplies.

1530 – End of Day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals				Treated Soil Totals[1]	
	Applied Today (g)			Total to Date (g)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU6)	Soils (DU1)	Demo Debris (DU1)			
09/08/12	325	-	-	11,113	176	10,945
09/10/12	-	-	-	11,113	-	10,945
09/11/12	-	-	-	11,113	-	10,945
09/12/12	-	-	-	11,113	-	10,945
09/13/12	355	-	-	11,468	374	11,319
09/14/12	-	-	-	11,468	242	11,561
09/17/12	149	-	-	11,617	242	11,803
09/18/12	181	-	-	11,798	-	11,803
09/19/12	-	-	-	11,798	-	11,803
09/20/12	-	-	-	11,798	-	11,803
09/21/12	-	-	-	11,798	-	11,803
09/22/12	-	-	-	11,798	-	11,803

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

Table 2. Clean Backfill Total Estimates

Date	DU6 Clean Backfill Totals[2]		DU1 Clean Backfill Totals[2]		
	Excavated and Placed Today in DU6 (cyd)		Excavated and Placed Today in DU1 (cyd)		
	Cargo Pier Source Area	Total to Date in DU6 (cyd)	Cargo Pier Source Area	DU6 Source Area	Total to Date in DU1 (cyd)
09/08/12	-	11,748	-	44	7,414
09/10/12	330	12,078	1,012	-	8,426
09/11/12	220	12,298	-	-	8,426
09/12/12	-	12,298	44	-	8,470
09/13/12	-	12,298	-	-	8,470
09/14/12	-	12,298	-	-	8,470
09/17/12	-	12,298	-	-	8,470
09/18/12	1,188	13,486	-	-	8,470
09/19/12	-	13,486	-	-	8,470
09/20/12	396	13,882	-	-	8,470
09/21/12	286	14,168	-	-	8,470
09/22/12	-	14,168	-	-	8,470

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 2.5 CY excavator bucket and 22 CY of soil per truck load.

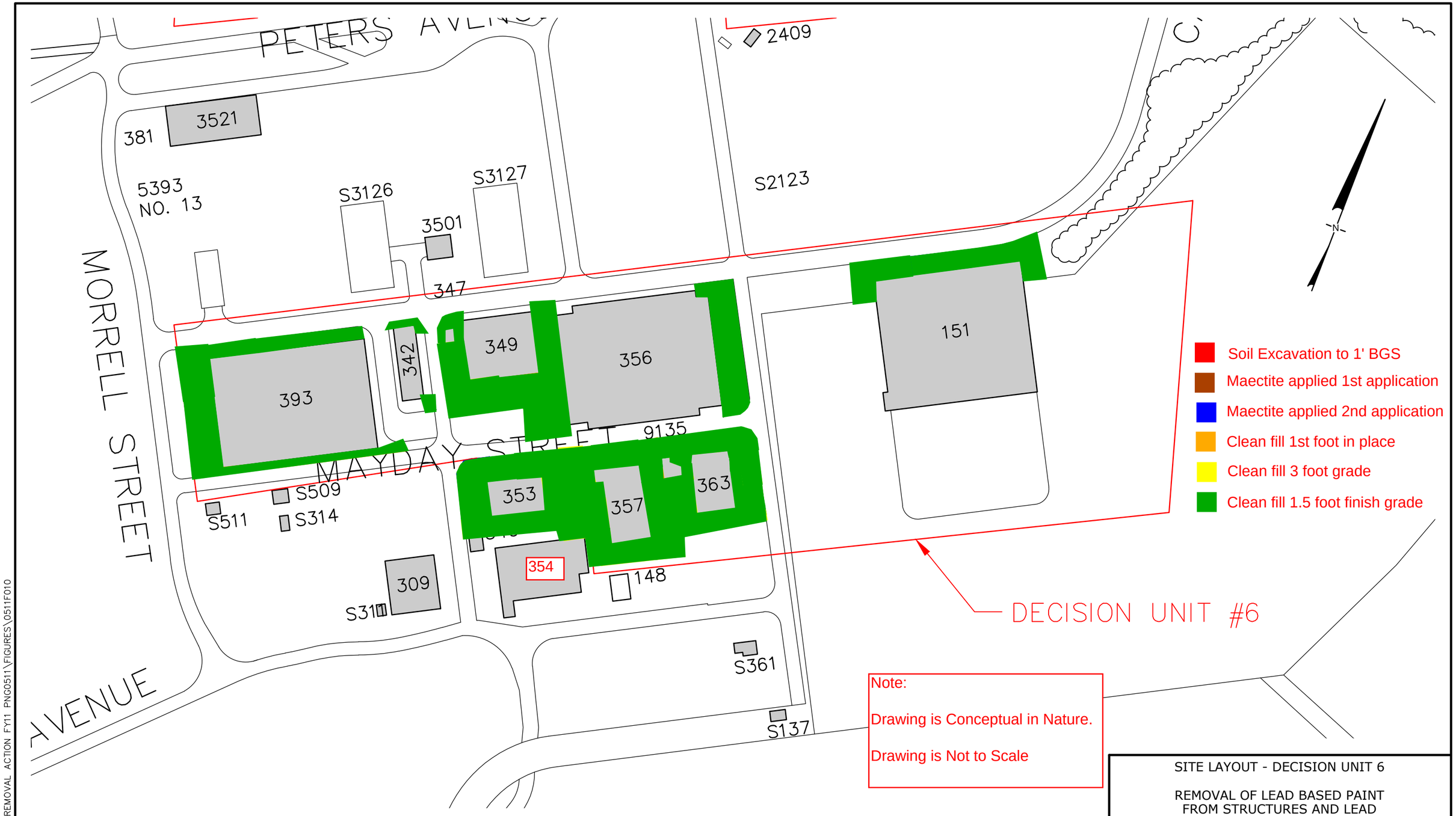
Photographs:

Photo 01: NWDE replaced a portion of the sandbags north of Bldg 151 with “5 year” sandbags.

Photo 02: NWDE removes a load of metal debris from the R-2 unit.

Site Map

The attached site maps show the limits of Maectite application, the ongoing soil excavation, and clean sand fill, and building footprints in DU1 and DU6.



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0 150' 300'

SCALE IN FEET

LEGEND

STRUCTURES

SITE LAYOUT - DECISION UNIT 6

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

OCTOBER 2011

Figure: 8

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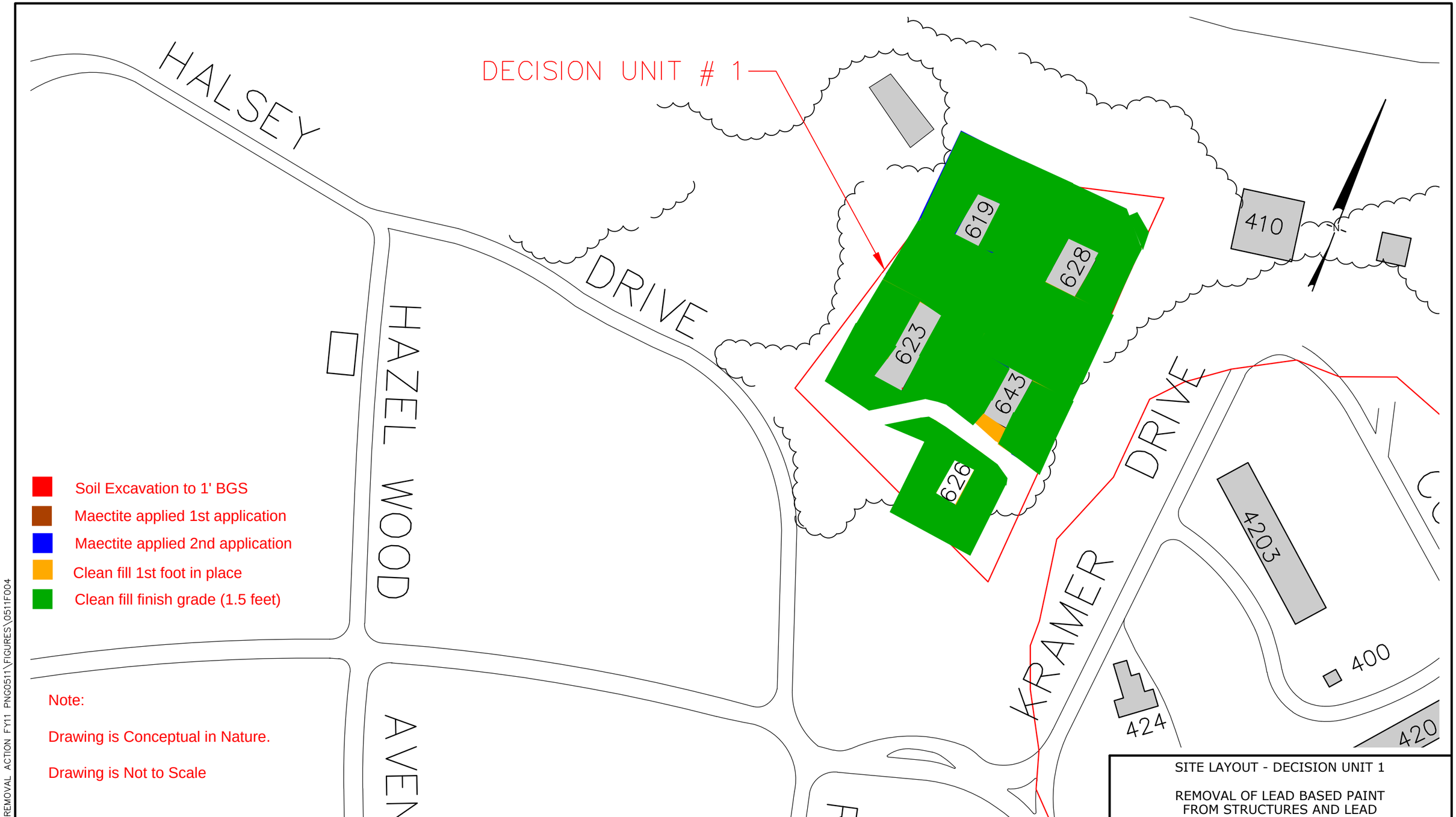

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SITE LAYOUT - DECISION UNIT 1

REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

SEPTEMBER 2011

Figure: 2

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NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 24, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	8
Everett White	NWDE Super	8
Alan Phillips	NWDE Operator	8
Dave Hard	NWDE Operator	8
Mike Saiki	NWDE Operator	8
Jose Ordaz	NWDE Operator	8

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	50 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0730 - NWDE re-bags deteriorated sandbags at DU2.

NWDE makes a pedestrian access ramp of the remaining sand from in between the Cargo and Fuel piers to allow of safe access to the water line. NWDE then moves the excavator to clean it up and service it.

NWDE resumes cleaning up equipment and the staging area, organizing and inventorying supplies in preparation for next season.

1000 – E. White and M. Schott attend weekly project conference call with US FWS PM and others.

1200 – Lunch.

1230 – NWDE resumes cleaning up equipment and the staging area, organizing and inventorying supplies in preparation for next season.

1530 – End of Day.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 25, 2012
Prepared by: Michael Schott

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Client: US Fish and Wildlife Service

Weather: Temps in the 80's, Partly Cloudy, Light Wind.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE SSHO / QC	8
Everett White	NWDE Super	8
Alan Phillips	NWDE Operator	8
Dave Hard	NWDE Operator	8
Mike Saiki	NWDE Operator	8
Jose Ordaz	NWDE Operator	8

Visitors/Additional Site Personnel:

Name	Title

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Dozer Rental from DBSI		0 hours today

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	89 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE resumes cleaning up equipment and the staging area, organizing and inventorying supplies in preparation for next season.

1200 – Lunch.

1230 – NWDE resumes cleaning up equipment and the staging area, organizing and inventorying supplies in preparation for next season.

1530 – End of Day.

APPENDIX B
SELECT SITE PHOTOGRAPHS AND SITE PHOTOGRAPH SUMMARY DVD

Photo 1: 6/29/12 – Looking South; Barge with equipment and supplies arrives at Midway.

Photo 2: 7/3/12 – Looking East; Breaking penetrations in floor of the R-2 Unit.

Photo 3: 7/9/12 – Looking North; Applying Maectite south west of Bldg 363.

Photo 4: 7/12/12 – Looking South West; Convoy entering R-2 Unit area.

Photo 5: 7/14/12 – Looking North East; Priming with Lead Stop around windows after abatement Bldg 356.

Photo 6: 7/17/12 – Looking South West; Excavation of treated soils in progress at Bldg. 363.

Photo 7: 7/20/12 Looking West; Personal air monitoring for lead being conducted during excavation.

Photo 8: 7/20/12 – Looking North West; Beginning demolition of Bldg 626.

Photo 9: 7/25/12 - Looking North West; Abatement / painting of Bldg. 643 complete.

Photo 10: 7/31/12 - Looking West; Backfilling in between Bldgs. 363 and 357.

Photo 11: 8/4/12 - Looking North West; Establishing a grid in preparation for Maectite deployment north of Bldgs 619 & 628.

Photo 12: 8/10/12 - Looking West; Placing backfill east of Bldg 356.

Photo 13: 8/16/12 - Looking South; Excavating in DU1.

Photo 14: 8/21/12 – Looking South; Continuing excavation in DU1.

Photo 15: 8/27/12 – Looking South; Excavating north of Bldg. 626.

Photo 16: 9/1/12 – Looking West; Placing backfill in DU1.

Photo 17: 9/7/12 – Looking North; Treated sand and demolition debris placed in the R-2 Unit.

Photo 18: 9/13/12 – Looking South East; Applying Maectite west of Bldg 393.

Photo 19: 9/19/12 – Looking South West; Backfill being placed north of Bldg. 393.

Photo 20: 9/22/12 – Looking North East; Shadecloth placed over clean backfill north of Bldg. 151.

APPENDIX C
HISTORICAL ITEM REPORTS

Items of Potential Historical Significance
Part 1. Recovered during Demolition of Cable Buildings in DU1

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Prepared for: US Fish and Wildlife Service
Last Revised: 08/08/12

As per the project Removal Action Work Plan (RAWP), Section 3.2.5 Preservation and Protection of Historical, Archeological, and Cultural Resources, the items listed below were recovered during normal activities associated with the demolition of the cable buildings in Decision Unit 1 (DU1) and are submitted on behalf of NW Demolition and Environmental (NWDE) for significance review by a third party archeologist chosen by the US FWS.

The items are categorized and labeled according to the nearest building associated with said item, and numbered in the order that they were recovered in the field, for example, the item labeled A626-1 was found near Building 626 and was the first item recovered at this location. All items listed below have been turned over to the US FWS project manager and are accounted for in their entirety.

Items Recovered near Building 626:

Photo 01 – A626-1

Item No: A626-1
Date and time recovered: 7/20/12 14:30
Recovered by: C. Nelson, NWDE
Location: N28.21538, W177.37871, see attached map
Description: 10 clear and blue-green glass bottles exposed when floor slab / footings were removed. Found 2 feet south of the building corner at a depth of approximately 1 foot below grade. Field location marked with lath and flagging.

Photo 02: Item A626-2.

Item No: A626-2
Date and time recovered: 7/20/12 time not recorded
Recovered by: C. Nelson, NWDE
Location: N28.21533, W177.37872, see attached map
Description: An item, best described as some kind of small shell button, was found while cleaning up demolition debris on the ground surface. Field location marked with lath and flagging.

Items Recovered near Building 623:

Photo 03 - A623-1

Item No: A623-1
Date and time recovered: 7/21/12 16:00
Recovered by: C. Nelson, NWDE
Location: N28.21560, W177.37903 (based on aerial photograph), see attached map
Description: The item, a blue pencil fragment, was found while sorting the building demolition debris at the building corner. Field location marked with lath and flagging.

Photo 04: Item A623-2.

Item No: A623-2
Date and time recovered: 7/21/12 time not recorded
Recovered by: U.S. FWS personnel
Location: N28.21564, W177.37921, see attached map
Description: The item, a clear glass jar, had apparently fallen out of the root ball of a banyan tree that was removed prior to demolition and was found on the ground surface. The location marked on the attached map and flagged in the field indicates the approximate location of the banyan tree before it was removed.

Photo 05: Item A623-3.

Item No: A623-3
Date and time recovered: 7/31/12 15:00
Recovered by: Found by C. Nelson, NWDE
Location: N28.21573, W177.38962 (based on aerial photograph), see attached map
Description: The item, comprised of several broken green glass bottle fragments, was found in during cleaning in the building pad area at a depth of approximately 2 inches below grade. The location marked on the attached map and flagged in the field indicates the approximate location where the item was found, prior to removal.

Items Recovered near Building 619:

Photo 06: Item A619-1.

Item No: A619-1
Date and time recovered: 7/24/12 10:19
Recovered by: Found by D. Liebelt, NWDE
Location N28.21610, W177.37908 (based on aerial photograph), see attached map
Description: The item, a pearl colored piece of plastic, was exposed when removing shadecloth in preparation for demolition activities related to Bldg 619. The item was laying on the ground surface. The location marked on the attached map and flagged in the field indicates the approximate location where the item was found, prior to removal.

Items Recovered near Building 628:

Item No: N/A – No items recovered in this area
Date and time recovered: N/A
Recovered by: N/A
Location: N/A
Description: C. Tyrrell, Geosyntec, on site for building pad removal on 07/31/12. No items recovered from this location.

Additional Notes:

Ceramic pipe around perimeter (approximately 6.5-inch O.D.) at a depth of 2 feet below ground surface, 2 pieces collected and stored with foundation footings (photo below).

Photo 07: Photo of piece of ceramic pipe found around all building perimeters.

Items of Potential Historical Significance
Part 2. Recovered during the Soil Treatment in areas Surrounding the Cable Buildings in DU1

Project: Removal of Lead Based Paint from Structures and Lead Contaminated Soil
Location: Midway Atoll National Wildlife Refuge
Prepared for: US Fish and Wildlife Service
Last Revised: 08/13/12

As per the project Removal Action Work Plan (RAWP), Section 3.2.5 Preservation and Protection of Historical, Archeological, and Cultural Resources, the items listed below were recovered during normal activities associated with the Maectite soil treatment, mixing, and excavation of the cable buildings in Decision Unit 1 (DU1) and are submitted on behalf of NW Demolition and Environmental (NWDE) for significance review by a third party archeologist chosen by the US FWS.

The items are categorized and labeled according to the nearest building associated with said item, and numbered in the order that they were recovered in the field, for example, the item labeled A626-1 was found near Building 626 and was the first item recovered at this location. All items listed below have been turned over to the US FWS project manager and are accounted for in their entirety.

Items Recovered near footprint of Building 626:

Item No: N/A – No items recovered in this area
Date and time recovered: N/A
Recovered by: N/A
Location: N/A
Description: No items recovered from this location.

Items Recovered near footprint of Building 623:

Item No: N/A – No items recovered in this area
Date and time recovered: N/A
Recovered by: N/A
Location: N/A
Description: No items recovered from this location.

Items Recovered near footprint of Building 619:

Item No: A619-2

Photo 01: Item A619-2.

Item No: A619-2
Date and time recovered: 8/8/12 13:00
Recovered by: A. Phillips, NWDE
Location: N28.21234, W177.37910, see attached map
Description: 3 clear glass bottles exposed when 1st application of Maectite was being mixed in to soil. Found approximately 27 feet north and 25 feet west of the southwest building corner at a depth of approximately 1 foot below grade. Field location marked with lath and flagging.

Item No: A619-3

Photo 01: Item A619-3.

Date and time recovered: 8/10/12 11:10

Recovered by: C. Nelson, NWDE
Location: N 28.21619°, W 177.37895°, see attached map
Description: Selby lead balance weight exposed during a heavy storm event. Item found on surface in southwest quarter of building pad. Field location marked with lath and flagging.

Items Recovered near Building 628:

Item No: N/A – No items recovered in this area
Date and time recovered: N/A
Recovered by: N/A
Location: N/A
Description: No items recovered from this location.

Additional Notes:

Figure 1. Location Map of Items Recovered in DU1.

APPENDIX D
GLOBETECK AIR MONITORING RESULTS

GLOBETECK GROUP, INC
534 Ohohia Street, Suite #B, Honolulu, Hawaii 96819 • PHONE (808) 833-5787 • FAX (808) 833-5987
SITE http://www.globeteckgroup.com

August 7, 2012

NorthWest Demolition & Dismantling
PO BOX 230819
TIGARD, OR 97281
Phone 808-585-6077
Fax 808-356-0563
ATTN: Darin Leibelt

RE: Asbestos Air Monitoring for Midway Soil Excavation and Building Demolition, Decision Units: 1 & 6.

Dear Mr. Leibelt:

Globeteck Group, Inc conducted asbestos air monitoring at the above mentioned site on July 20, 21, 23, 24, 25, 2012 during the removal of asbestos from the subject unit locations. Globeteck Group, Inc. collected personal and area air samples during the asbestos removal, provided oversight for the asbestos removal, conducted visual inspection of the subject areas post removal. All asbestos removal was conducted with dust controls well implemented, and the work was performed in a manner consistent with regulatory requirements.

Air samples were analyzed by Globeteck Group Inc. in accordance with NIOSH Method 7400. All samples read tested lower than 0.01 microns per cubic centimeter, and well within regulatory limits as set forth by OSHA and EPA standards.

If you have any questions regarding this report, please do not hesitate to call me at (808)-833-5787. Thank you for the opportunity to be of service for your environmental needs.

Sincerely,

Chris Schulze
IHT, Globeteck Group, Inc

ASBESTOS AIR SAMPLING FIELD REPORT (PCM)

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name: Midway Asbestos Demolition
Site: Bldg 626 Cook's QtR, Decision unit 1
Client Name: Northwest Demolition
Project Number: GGI-2647 G12-2942

ATTENTION:
Collection Date: 7/20/2012
TAT:
Collected by: M. Roup

ID NUMBER	DATE	PUMP #	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	FIBERS/ FIELDS	CONC. fibers/cc	8 HR TWA fibers/cc	Lab ID #
AA01	7/20/2012		Upwind of Bldg 626	OA	1000	1730	450	2	2	2	900	4/100			179787
AA02	7/20/2012		Down Wind of Bldg 626	OA	1000	1730	450	2	2	2	900	9/100			179788
AA03	7/20/2012		Chris Nelson	P	~~1200~~ 1230	1730	420	2	2	2	840	13/100			179789

Categories:

P	PERSONAL
C	CLEARANCE

OA	OUTSIDE AREA
LB	LOT BLANK

IA	INSIDE AREA
E	ENVIRONMENTAL

Analyzed By: Chris Schulze
Date Analyzed: 7/30/2012

Reviewed By:
Date Reviewed:

DAILY SITE REPORT

G12 2942

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Page 1 of 1

Date: 7/20/2012
Start Time: 0730
Project #: GGI-2647 G12
End Time: 1730
Project Name: Asbestos + Lead Demolition
Project Site: Bldg 626, Decision Unit 1
Visitors Log In: Fish & Wildlife Personnel
Client: Northwest Demolition
Sample ID #'s for all Samples collected

Mary Ann Arann
Sue Schulmeister
Peter Leary
Geosyntec
Michael Scholl
Christa Tyrell

Globeteck Personnel: M. Rouf

Contractors Work: The contractor utilized excavator to demolish bldg 626, contractor sprayed phosphoric acid to crystalyzed the lead-contaminated paint on the surfaces. Also, ACM were not removed from the building before the renovation. demolition. After the demolition, ACM & Lead-Containing debris were hauled to a designated area on the Island

Globeteck Inspector's Work: Attended the tool-box safety meeting in the morning. All pumpcure calibrated and set-up for monitoring upwind & downwind direction for Asbestos Air Samples.

Samples Collected: Asbestos Air: ____ PLM: ____ TCLP: ____
Lead Air: ____ Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: 3

Globeteck Inspector's Signature

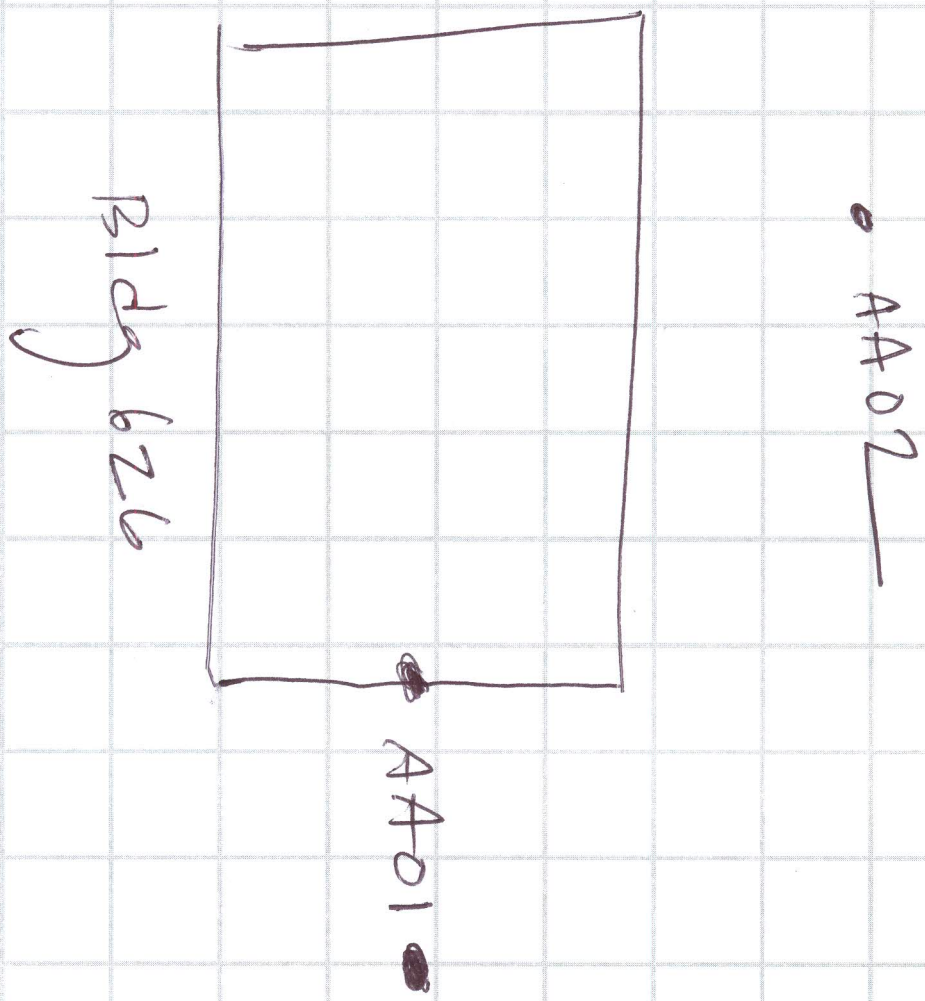
Contractor Supervisor Signature

GLOBETECK GROUP, INC.

7/20/2012

GGI-2647

Sample Location Map



GLOBETECK GROUP, INC
534 Ohohia Street, Suite #B, Honolulu, Hawaii 96819 • PHONE (808) 833-5787 • FAX (808) 833-5987
SITE http://www.globeteckgroup.com

NIOSH 7400 Method, "A" Counting Rules, Issue 2, August 15, 1994

Client Name: Northwest Demolition
Client Address: 411 Pacific Street
Honolulu, HI
(808) 585-6077
Attention:

Project Name: Midway Asbestos Demolition
Site: Cooks Qtrs, Decision Unit 1
Globeteck Project No.: GGI -2647
Client Project No.:
Report No. : G12-2942
Date Printed: 7/31/2012
Analyst: C.Schulze

Client Sample ID	Lab ID	Sampling Date	Received Date	Date Analyzed	Air Volume	Fibers	Fields	LOD (F/cc	Results (F/cc)
AA01	179787	7/20//2012	7/26/2012	7/30//2012	900	4	100	0.003	0.003
AA02	179788	7/20//2012	7/26/2012	7/30//2012	900	9	100	0.003	0.005
AA03	179789	7/20//2012	7/26/2012	7/30//2012	840	13	100	0.003	0.008

Mohammad Rouf, MPH, CHMM
Laboratory Director

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ASBESTOS AIR SAMPLING FIELD REPORT (PCM)

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Asbestos Lead Demolition	ATTENTION:	
Site:	Decision Unit 1	Collection Date:	7/21/2012
Client Name:		TAT:	
Project Number:	GGI-2647 G12- 2943	Collected by:	M. ROUF

ID NUMBER	DATE	PUMP #	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	FIBERS/ FIELDS	CONC. fibers/cc	8 HR TWA fibers/cc	Lab ID #
AA04	7/21/2012		Upwind	OA	0730	1730	600	2	2	2	1200	6/100 ~~160~~			179793
AA05	7/21/2012		Downwind	OA	0730	1730	600	2	2	2	1200	7/100 ~~175~~			179794
AA06	7/21/2012		Chris Nelson	P	~~0730~~ 1200	~~1230~~ 1730	~~530~~	2	2	2	1100	15/100 ~~155~~			179795

Categories:							
	P	PERSONAL	OA	OUTSIDE AREA	IA	INSIDE AREA
	C	CLEARANCE	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:	Chris Schulze	Reviewed By:	
Date Analyzed:	7/30/2012	Date Reviewed:	

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/21/2012
Start Time: 0730
Project #: GGI-2647G12-2943
End Time: 1730
Project Name: Asbestos & Lead Demolition
Project Site: Decision Unit 1
Visitors Log In:
Client: Northwest Demolition
Sample ID #'s for all Samples collected: 3

Globeteck Personnel: M. Rouf

Contractors Work: The contractor used excavator to demolish the building lead + ACM intact. The debris were hauled to a designated area to be stored.

Globeteck Inspector's Work: Attended the tool box meeting in the morning. Inspected the entire area. The pumps were calibrated & set up for the asbestos air monitoring. The personal pump was assigned to Christian Nelson.

Samples Collected: Asbestos Air: ____ PLM: ____ TCLP: ____
Lead Air: ____ Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: ____

Globeteck Inspector's Signature

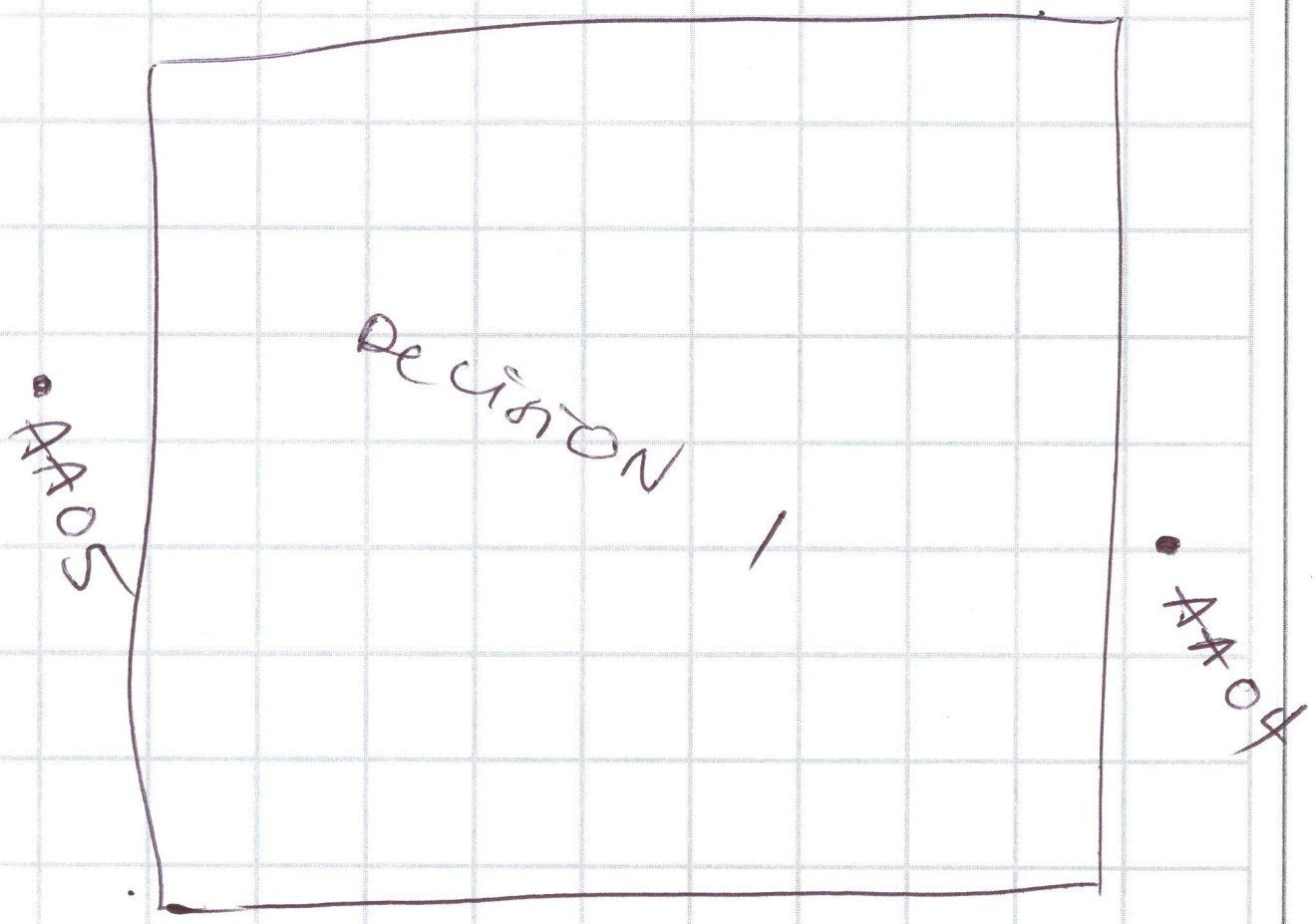
Dai Lebert
Contractor Supervisor Signature

7/21/2012

GOI-2647

GLOBETECK GROUP, INC.

Sample Location Map



GLOBETECK GROUP, INC
534 Ohohia Street, Suite #B, Honolulu, Hawaii 96819 • PHONE (808) 833-5787 • FAX (808) 833-5987
SITE http://www.globeteckgroup.com

NIOSH 7400 Method, "A" Counting Rules, Issue 2, August 15, 1994

Client Name: Northwest Demolition
Client Address: 411 Pacific Street
Honolulu, HI
(808) 585-6077
Attention:

Project Name: Midway Asbestos Demolition
Site: Decision Unit 1
Globeteck Project No.: GGI -2647
Client Project No.:
Report No. : G12-2943
Date Printed: 7/31/2012
Analyst: C.Schulze

Client Sample ID	Lab ID	Sampling Date	Received Date	Date Analyzed	Air Volume	Fibers	Fields	LOD (F/cc	Results (F/cc)
AA04	179793	7/21//2012	7/26/2012	7/30//2012	1200	6	100	0.002	0.002
AA05	179794	7/21//2012	7/26/2012	7/30//2012	1200	7	100	0.002	0.003
AA06	179795	7/21//2012	7/26/2012	7/30//2012	1100	15	100	0.002	0.007

Mohammad Rouf, MPH, CHMM
Laboratory Director

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ASBESTOS AIR SAMPLING FIELD REPORT (PCM)

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Lead & Asbestos Demolition
Site:	Bldg 623 Decision Unit 1
Client Name:	Northwest Demolition
Project Number:	GGI-2647 G12-2944

ATTENTION:	
Collection Date:	23 July 2012
TAT:	
Collected by:	Mohammad Rouf

ID NUMBER	DATE	PUMP #	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	FIBERS/ FIELDS	CONC. fibers/cc	8 HR TWA fibers/cc	Lab ID #
AA07	7/23		Upwind	OA	0800	1730	540	2	2	2	1080	3 1W			179796
AA08	7/23		Downwind	OA	0800	1730	540	2	2	2	1080	5 1W			179797
AA09	7/23		Chris Nelson	P	0800 1200	1230 1730	540	2	2	2	1080	10 1W			179798

Categories:

P	PERSONAL
C	CLEARANCE

OA	OUTSIDE AREA
LB	LOT BLANK

IA	INSIDE AREA
E	ENVIRONMENTAL

Analyzed By:	Chris Schulz
Date Analyzed:	7/30/2012

Reviewed By:	
Date Reviewed:	

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/23/2012

Start Time: 0730

Project #: GGI-2647 G12-2944

End Time: 1730

Project Name: Asbestos & Lead Demolition

Project Site: Dennison Unit 1

Visitors Log In: Chris Nelson, phillip Allen

Client: Northwest Demolition

Sample ID #'s for all Samples collected:

Globeteck Personnel: M. Ronf

Contractors Work: The contractor used excavator to delomish buildings. The contractor sprayed phophoric acid solution to lead, leachate in the soil & ground water. The personal pump was calibrated and issued to Chris Nelson.

Globeteck Inspector's Work: Pumps were calibrated and set for air monitoring. The entire area often inspected for compliance. The Fish & Wildlife PM frequently visited the site.

Samples Collected: Asbestos Air: _____ PLM: _____ TCLP: _____
Lead Air: _____ Lead Wipes: _____ Lead Soil: _____
Number of Workers: _____

Number of Samples Collected: _____

Globeteck Inspector's Signature

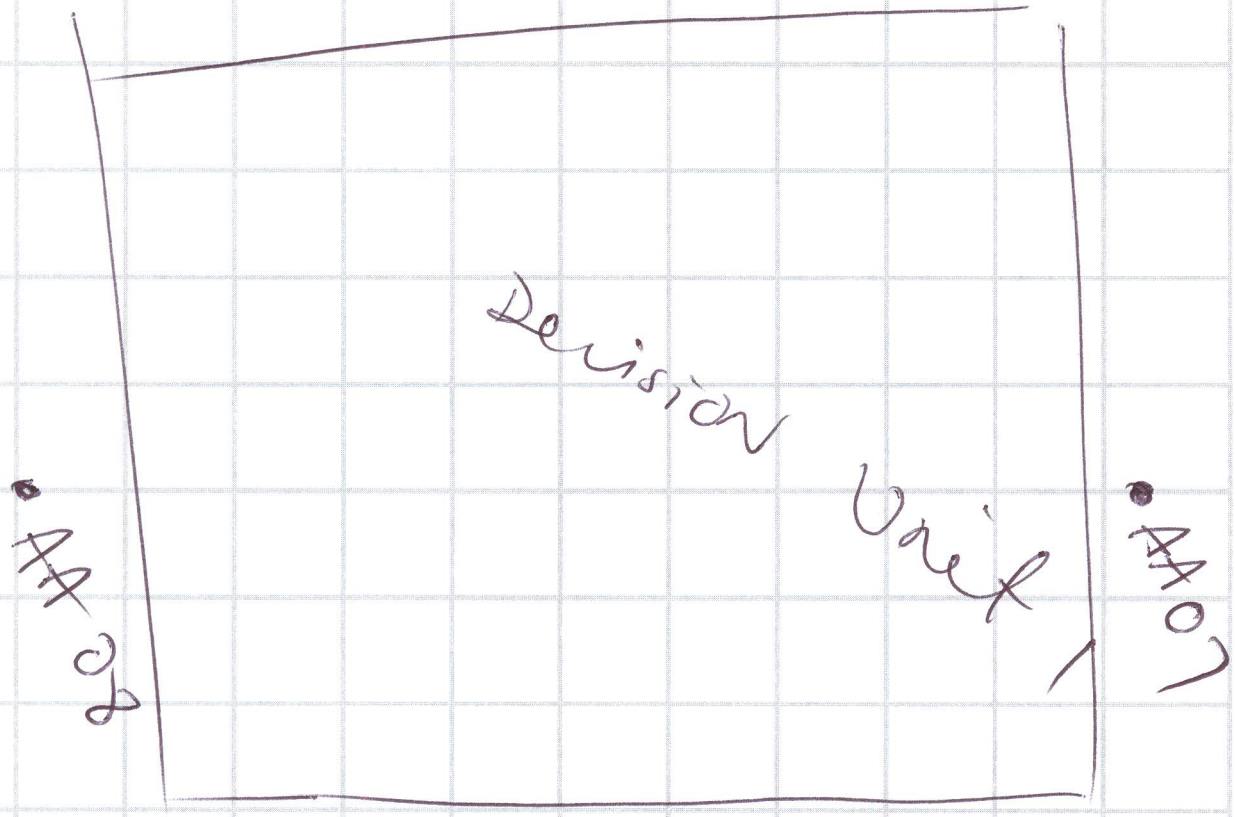
Contractor Supervisor Signature

7/23/2012

GLOBETECK GROUP, INC.

Sample Location Map

Page _____ of _____



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SITE http://www.globeteckgroup.com

NIOSH 7400 Method, "A" Counting Rules, Issue 2, August 15, 1994

Client Name: Northwest Demolition
Client Address: 411 Pacific Street
Honolulu, HI
(808) 585-6077
Attention:

Project Name: Midway Asbestos Demolition
Site: Bldg 623, Decision Unit 1
Globeteck Project No.: GGI -2647
Client Project No.:
Report No. : G12-2944
Date Printed: 7/31/2012
Analyst: C.Schulze

Client Sample ID	Lab ID	Sampling Date	Received Date	Date Analyzed	Air Volume	Fibers	Fields	LOD (F/cc	Results (F/cc)
AA07	179796	7/23//2012	7/26/2012	7/30//2012	1080	3	100	0.002	0.002
AA08	179797	7/23//2012	7/26/2012	7/30//2012	1080	5	100	0.002	0.002
AA09	179798	7/23//2012	7/26/2012	7/30//2012	1080	10	100	0.002	0.005

Mohammad Rouf, MPH, CHMM
Laboratory Director

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ASBESTOS AIR SAMPLING FIELD REPORT (PCM)

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Asbestos + Lead Demolition	ATTENTION:	
Site:	Decision Unit 1	Collection Date:	7/24/2012
Client Name:	Northwest Demolition	TAT:	
Project Number:	GGI-2647 G12- 2945	Collected by:	M. Rouf

ID NUMBER	DATE	PUMP #	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	FIBERS/ FIELDS	CONC. fibers/cc	8 HR TWA fibers/cc	Lab ID #
AA10	7/24/2012		Upwind	OA	0730	1730	540	2	2	2	1080	4 1/lw			179805
AA11	7/24/2012		Downwind	OA	0730	1730	540	2	2	2	1080	7 1/lw			179806
AA12	7/24/2012		Chris Nelson	P	0730 ~~1200~~	1230 ~~1730~~	510	2	2	2	1020	15 1/lw			179807

Categories:							
	P	PERSONAL	OA	OUTSIDE AREA	IA	INSIDE AREA
	C	CLEARANCE	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:	Chris Schulze	Reviewed By:	
Date Analyzed:	7/30/2012	Date Reviewed:	

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/24/2012
Start Time: 0730
Project #: GGI-2647 G12-2945
End Time: 1730
Project Name: Asbestos + Lead Demolition
Project Site: Decision Unit 1
Visitors Log In: Chris Nelson, Allen Phillips
Client: Northwest Demolition
Sample ID #'s for all Samples collected:

Globeteck Personnel: M. Rouf

Contractors Work: The contractor continues demolition from the previous day with lead & ACM intact at the decision Unit 1. The entire building was demolished yesterday. Today, the contractor seperated metals, footing, slabs and hauled them to a designated area on the Island.

Globeteck Inspector's Work: Inspected the entire project site. Calibrated the pumps and set-up for the Asbestos & Lead air samples.

Samples Collected: Asbestos Air: 3 PLM: ____ TCLP: ____
Lead Air: 3 Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: 6

Globeteck Inspector's Signature

Contractor Supervisor Signature

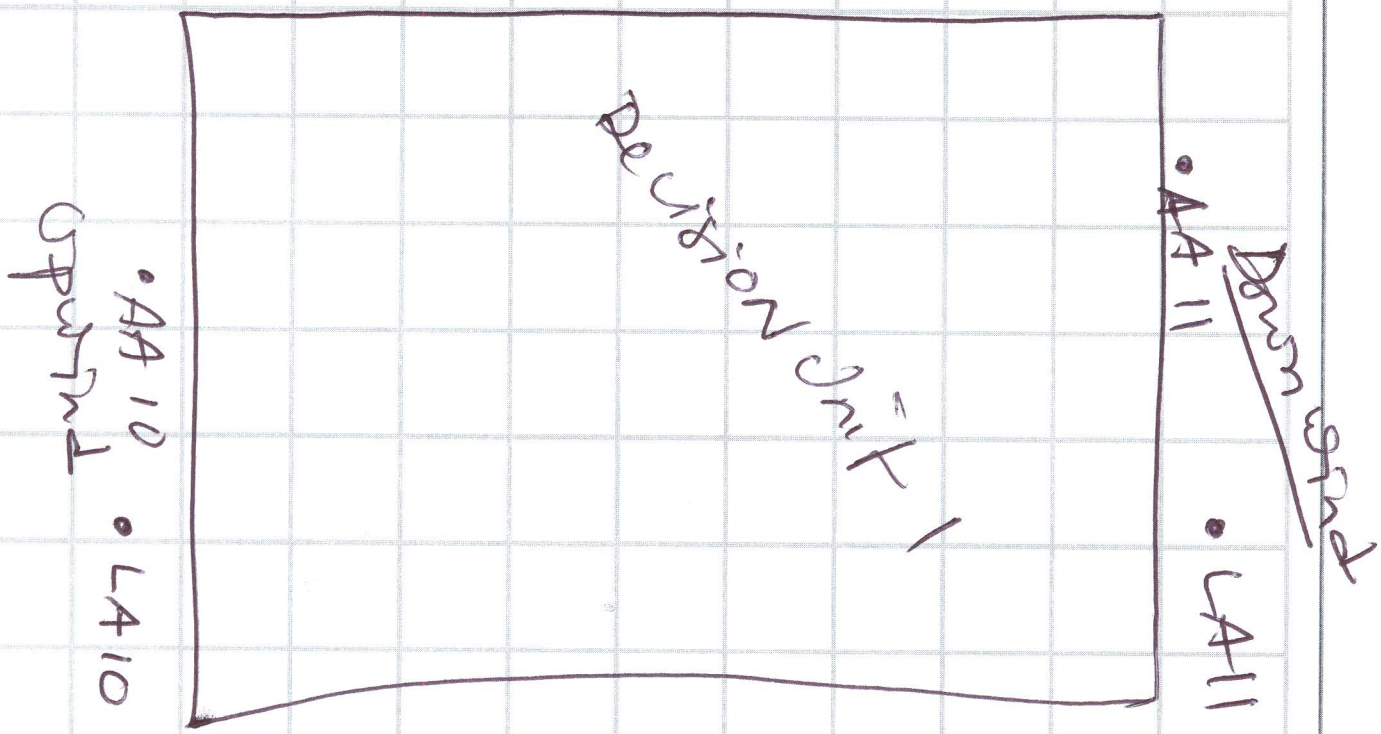
7/24/2012

GBI-2647

GLOBETECK GROUP, INC.

Sample Location Map

Page _____ of _____



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SITE http://www.globeteckgroup.com

NIOSH 7400 Method, "A" Counting Rules, Issue 2, August 15, 1994

Client Name: Northwest Demolition
Client Address: 411 Pacific Street
Honolulu, HI
(808) 585-6077
Attention:

Project Name: Midway Asbestos Demolition
Site: Decision Unit 1
Globeteck Project No.: GGI -2647
Client Project No.:
Report No. : G12-2945
Date Printed: 7/31/2012
Analyst: C.Schulze

Client Sample ID	Lab ID	Sampling Date	Received Date	Date Analyzed	Air Volume	Fibers	Fields	LOD (F/cc	Results (F/cc)
AA10	179805	7/24//2012	7/26/2012	7/30//2012	1080	4	100	0.002	0.002
AA11	179806	7/24//2012	7/26/2012	7/30//2012	1080	7	100	0.002	0.003
AA12	179807	7/24//2012	7/26/2012	7/30//2012	1020	15	100	0.003	0.007

Mohammad Rouf, MPH, CHMM
Laboratory Director

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ASBESTOS AIR SAMPLING FIELD REPORT (PCM)

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Asbestos & Lead Demolition	**ATTENTION:**	
Site:	Decision Unit 1	**Collection Date:**	7/25/2012
Client Name:	Northwest Demo	**TAT:**	
Project Number:	GGI-2647 G12- 2946	**Collected by:**	M. Rouf

ID NUMBER	DATE	PUMP #	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	FIBERS/ FIELDS	CONC. fibers/cc	8 HR TWA fibers/cc	Lab ID #
AA13	7/25/2012		Downwind	OA	0730	1730	540	2	2	2	1080	61 lw ~~46~~ cs			179808
AA14	7/25/2012		Upwind	OA	0730	1730	540	2	2	2	1080	31 lw ~~73~~ cs			179809
AA15	7/25/2012		Chris Nelson	P	0730 1210	1230	510	2	2	2	1020	12 lw ~~42~~ cs			179810

Categories:							
	P	PERSONAL	OA	OUTSIDE AREA	IA	INSIDE AREA
	C	CLEARANCE	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:	Chris Sumner	Reviewed By:	
Date Analyzed:	7/30/2012	Date Reviewed:	

DAILY SITE REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/25/2012
Start Time: 0730
Project #: GGI-2647 G12-2946
End Time: 1730
Project Name: Asbestos + Lead Demolition
Project Site: Decision Unit 1
Visitors Log In: Chris Nelson, Allen phillips
Client: Northwest Demo
Sample ID #'s for all Samples collected

Globeteck Personnel: M. Ronf

Contractors Work: The contractor used excavator to demolish Bldg 618A. phosphoric acid solution was sprayed by Chris Nelson to crystalized the content. Debris were segregated and hauled to a designated area on the Island.

Globeteck Inspector's Work: Inspected the entire area. The pumps were calibrated. The pumps were set for both Lead & Asbestos air monitoring.

Samples Collected: Asbestos Air: 3 PLM: ____ TCLP: ____
Lead Air: 3 Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: 6

Globeteck Inspector's Signature

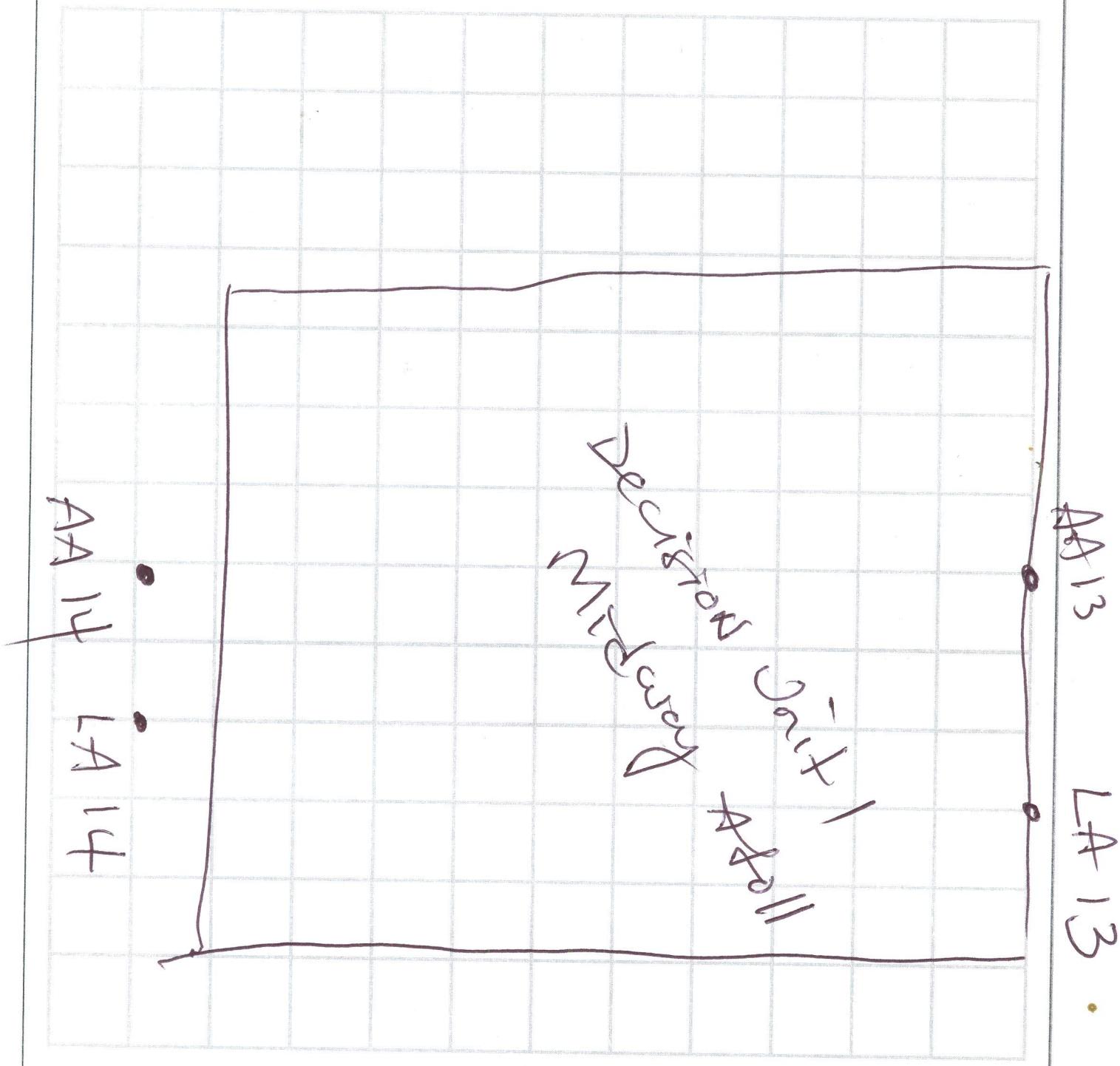
Contractor Supervisor Signature

7/25/2012

GLOBETECK GROUP, INC.

Sample Location Map

Page 1 of 1



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SITE http://www.globeteckgroup.com

NIOSH 7400 Method, "A" Counting Rules, Issue 2, August 15, 1994

Client Name: Northwest Demolition
Client Address: 411 Pacific Street
Honolulu, HI
(808) 585-6077
Attention:

Project Name: Midway Asbestos Demolition
Site: Decision Unit 1
Globeteck Project No.: GGI -2647
Client Project No.:
Report No. : G12-2946
Date Printed: 7/31/2012
Analyst: C.Schulze

Client Sample ID	Lab ID	Sampling Date	Received Date	Date Analyzed	Air Volume	Fibers	Fields	LOD (F/cc	Results (F/cc)
AA13	179804	7/25/2012	7/26/2012	7/30//2012	1080	6	100	0.002	0.003
AA14	179809	7/25//2012	7/26/2012	7/30//2012	1080	3	100	0.002	0.002
AA15	179810	7/25//2012	7/26/2012	7/30//2012	1020	12	100	0.003	0.006

Mohammad Rouf, MPH, CHMM
Laboratory Director

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October 22, 2012

NorthWest Demolition & Dismantling
PO Box 230819
Tigard, OR 97281
Bus: (808) 585-6077
Fax: (808) 356-0563
Attn: Darin Leibelt

RE: Lead Air Monitoring during Demolition of Buildings with Lead Paint, Decision Unit 1

Dear Mr. Leibelt:

I reviewed the laboratory results of all lead air samples that were collected for the above-mentioned project dated July 23 & 24, 2012. The laboratory results of these samples are below the regulatory limits and/or action levels (30 ug/m^3), therefore, continued lead sampling is not recommended. Based on the laboratory results, review of the laboratory quality control samples and the observation of the IHT, lead air sampling is recommended to be discontinued, and Personal Protective Equipment (PPE) may be down-graded provided that the same work procedures and crew members will be resumed.

If you have a question regarding this matter, please call me at (808) 833-5787.

Sincerely,

Jocelyn Galapon
Globeteck Group, Inc.

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name: Asbestos + Lead Demolition
Site: Decision Unit 1
Client Name: Northwest Demolition
Project #: GGI- 2647 G12- 2945

Collected By: M. Ruff
Collection Date: 7/24/2012
TAT:

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
LA 10	2/24/2012		upwind	OA	0730	1730	540	2	2	2	1080		179802
LA 11	2/24/2012		Downwind	OA	0730	1730	540	2	2	2	1080		179803
LA 12	2/24/2012		Chris Nelson	P	0730 / 1200	1230 / 1730	510	2	2	2	1020		179804

Categories:

P	PERSONAL	DW	DOWNWIND	IA	INSIDE AREA
UW	UPWIND	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:
Date Analyzed:

Reviewed By:
Date Reviewed:

Relinquished By: Received By: Relinquished By: Received By:

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NVLAP LAB CODE 200655-0

Thursday, August 02, 2012

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AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB # 101812

Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122316
Your Project: GGI-2647, G12-2945, Asbestos & Lead Demolition, Decision Unit 1

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20120730046	**LA10 Upwind (07/24/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					
20120730047	**LA11 Downwind (07/24/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					
20120730048	**LA12 Chris Nelson (07/24/12)**	UNK	< 4.9	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.9 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

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Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122316
Your Project: GGI-2647, G12-2945, Asbestos & Lead Demolition, Decision Unit 1

General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The samples analyses subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sampl relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of INALAB, Inc. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. For air samples, results are calculated based on the reported air volumes. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
UNK = sample submitted for this evaluation / analysis.
DUP = duplicate sample analysis of the UNK sample.
REP = replicate sample analysis which is a second preparation of the UNK sample analysis.
Tr = TRACE, i.e., the analyte of interest was, to a reasonable degree of scientific certainty present, but was BELOW the quantifiable limits of this determination (stated).
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
ND = NOT DETECTED which means the analyte, if present below our stated detection limit/ level.
RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu
Laboratory Manager

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Lead & Asbestos Demolition	Collected By:	7/25/2012
Site:	Decision Unit 1	Collection Date:	M. Roy F
Client Name:	Northwest Demo		
Project #:	GGI- 2647 G12- 2946	TAT:	

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
LA 13	7/25/2012		Downwind	DW	0730	1730	540	2	2	2	1080		179811
LA 14	7/25/2012		Upwind	UPW	0730	1730	540	2	2	2	1080		179812
LA 15	7/25/2012		Chris Nelson	P	0738 / 1200	1200 / 1730	510	2	2	2	1020		179813
L/													

Categories:		
	P	PERSONAL
	UW	UPWIND

DW	DOWNWIND
LB	LOT BLANK

IA	INSIDE AREA
E	ENVIRONMENTAL

Analyzed By:	
Date Analyzed:	

Reviewed By:	
Date Reviewed:	

Relinquished By: Received By: Relinquished By: Received By:

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NVLAP LAB CODE 200655-0

Thursday, August 02, 2012

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AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB # 101812

Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122317
Your Project: GGI-2647, G12-2946, Asbestos & Lead Demolition, Decision Unit 1

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20120730049	**LA13 Downwind (07/25/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					
20120730050	**LA14 Upwind (07/25/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					
20120730051	**LA15 Chris Nelson (07/25/12)**	UNK	< 4.9	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.9 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

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Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122317
Your Project: GGI-2647, G12-2946, Asbestos & Lead Demolition, Decision Unit 1

General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The samples analyses subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sampl relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of INALAB, Inc. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. For air samples, results are calculated based on the reported air volumes. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
UNK = sample submitted for this evaluation / analysis.
DUP = duplicate sample analysis of the UNK sample.
REP = replicate sample analysis which is a second preparation of the UNK sample analysis.
Tr = TRACE, i.e., the analyte of interest was, to a reasonable degree of scientific certainty present, but was BELOW the quantifiable limits of this determination (stated).
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
ND = NOT DETECTED which means the analyte, if present below our stated detection limit/ level.
RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu
Laboratory Manager

GLOBETECK GROUP, INC
534 Ohohia Street, Suite #B, Honolulu, Hawaii 96819 • PHONE (808) 833-5787 • FAX (808) 833-5987
SITE http://www.globeteckgroup.com

October 22, 2012

NorthWest Demolition & Dismantling
PO Box 230819
Tigard, OR 97281
Bus: (808) 585-6077
Fax: (808) 356-0563
Attn: Darin Leibelt

RE: Lead Air Monitoring during Excavation of Lead Contaminated Soils, Decision Unit 6

Dear Mr. Leibelt:

I reviewed the laboratory results of all lead air samples that were collected for the above-mentioned project dated July 20 & 21, 2012. The laboratory results of these samples are below the regulatory limits and/or action levels (30 ug/m^3), therefore, continued lead sampling is not recommended. Based on the laboratory results, review of the laboratory quality control samples and the observation of the IHT, lead air sampling is recommended to be discontinued, and Personal Protective Equipment (PPE) may be down-graded provided that the same work procedures and crew members will be resumed.

If you have a question regarding this matter, please call me at (808) 833-5787.

Sincerely,

Jocelyn Galapon
Globeteck Group, Inc.

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name: Lead Abatement Soil Excavation
Site: Decision Unit 6
Client Name: Northwest Demolition
Project #: GGI-2647 G12- 2942

Collected By: M. Rouf
Collection Date: 7/20/2012

TAT: 4 DAY

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
LA01	7/20/2012		Upwind	UW	0730	1730	600	2	2	2	1200		179784
LA02	7/20/2012		Downwind	DW	0730	1730	600	2	2	2	1200		179785
LA03	7/20/2012		Joel Smith	P	0730 / 1200	1230 / 1730	530	2	2	2	1100		179786

Categories:

P	PERSONAL	DW	DOWNWIND	IA	INSIDE AREA
UW	UPWIND	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:
Date Analyzed:

Reviewed By:
Date Reviewed:

Relinquished By: Received By: Relinquished By: Received By:

DAILY SITE REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/20/2012
Start Time: 0730 ~~1730~~
Project #: GGI-2647 G12-2942
End Time: 1730
Project Name: Lead Soil Excavation
Project Site: Decision Unit 6
Visitors: Jevon Stone
Client: Northwest Demolition
Log In: Sean Monear, Joel Smith
Sample ID #'s for all Samples collected:

Globeteck Personnel: M. Rouf

Contractors Work: Contractor used excavator & Laser-guided tripod to remove soil. The soil was trucked off to a designated are to be stored.

Globeteck Inspector's Work: Attended the morning toolbox safety meeting. Calibrated the pumps & positioned them to designated as labeled upwind & downwind of the ropped off area to be collected air samples. The personal was issued to Joel Smith. The designated PM of Fish & wildlife very frequent on the jobsite.

Samples Collected: Asbestos Air: ____ PLM: ____ TCLP: ____
Lead Air: ____ Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

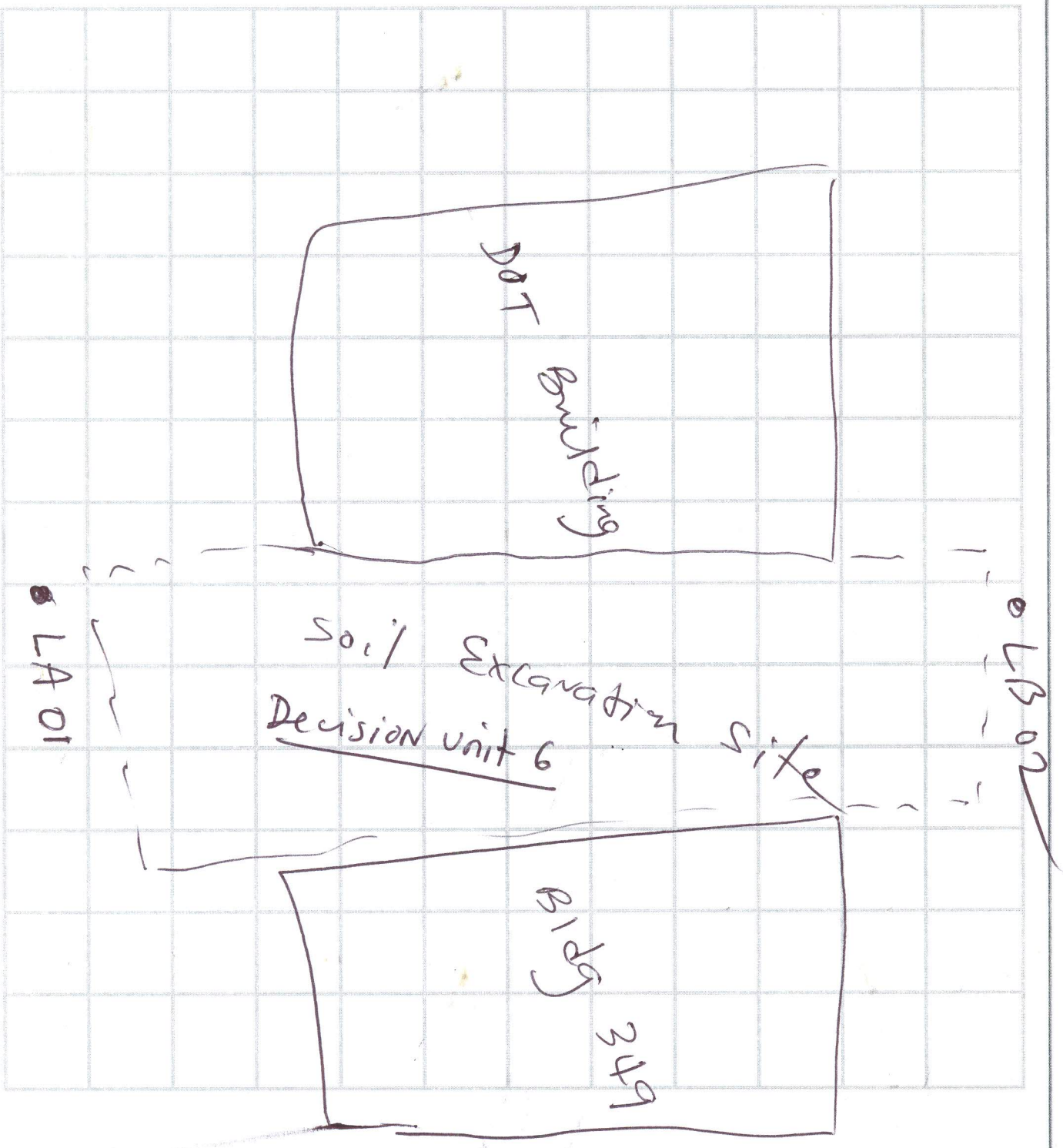
Number of Samples Collected: 3

Globeteck Inspector's Signature

Contractor Supervisor Signature

GGI-2647 GLOBETECK GROUP, INC. 7/20/2012

Sample Location Map



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NVLAP LAB CODE 200655-0

Thursday, August 02, 2012

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AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL LEAD ISO/IEC 17025:2005 LAB # 101812

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB # 101812

Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122313
Your Project: GGI-2647, G12-2942, Lead Abatement Soil Excavation, Decision Unit 6

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20120730037	**LA01 Upwind (07/20/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					
20120730038	**LA02 Downwind (07/20/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					
20120730039	**LA03 Joel Smith (07/20/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

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Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122313
Your Project: GGI-2647, G12-2942, Lead Abatement Soil Excavation, Decision Unit 6

General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The samples analyses subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sampl relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of INALAB, Inc. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. For air samples, results are calculated based on the reported air volumes. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
UNK = sample submitted for this evaluation / analysis.
DUP = duplicate sample analysis of the UNK sample.
REP = replicate sample analysis which is a second preparation of the UNK sample analysis.
Tr = TRACE, i.e., the analyte of interest was, to a reasonable degree of scientific certainty present, but was BELOW the quantifiable limits of this determination (stated).
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
ND = NOT DETECTED which means the analyte, if present below our stated detection limit/ level.
RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu
Laboratory Manager

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Lead Abatement & Soil Excavation	Collected By:	M. Rouf
Site:	Decision Unit 6	Collection Date:	7/21/2012
Client Name:	Northwest Demolition		
Project #:	GGI-2647 G12-	TAT:	

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
LA04	7/21/2012		Joel Smith	P	0730 1200	1230 1730	530	2	2	2	1100		179790
LA05	7/21/2012		Upwind	UW	0730	1730	600	2	2	2	1200		179791
LA06	7/21/2012		Downwind	DW	0730	1730	600	2	2	2	1200		179792

Categories:							
	P	PERSONAL	DW	DOWNWIND	IA	INSIDE AREA
	UW	UPWIND	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:		Reviewed By:	
Date Analyzed:		Date Reviewed:	

Relinquished By: Received By: Relinquished By: Received By:

DAILY SITE REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/21/2012
Start Time: 0730
Project #: GGI-2647 G12-2943
End Time: 1730
Project Name: Lead Soil excavation
Project Site: Decision Unit 6
Visitors: Jevon Stone
Client: Northwest Demolition
Log In: Sean
Joel Smith

Sample ID #'s for all Samples collected

Globeteck Personnel: M. Rouf

Contractors Work: The contractor utilized excavator to perform soil removal task. A laser-guided tripod was used determine the depth of soil so approximately 12 inches of top soil to be removed. The soil was hauled to a designated area on the Island.

Globeteck Inspector's Work: Attended the tool-box safety meeting in the morning. Calibrated the pumps + positioned for Lead air monitoring. The personal pump was issued to Joel Smith.

Samples Collected: Asbestos Air: ____ PLM: ____ TCLP: ____
Lead Air: 3 Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: ____

Globeteck Inspector's Signature

Contractor Supervisor Signature

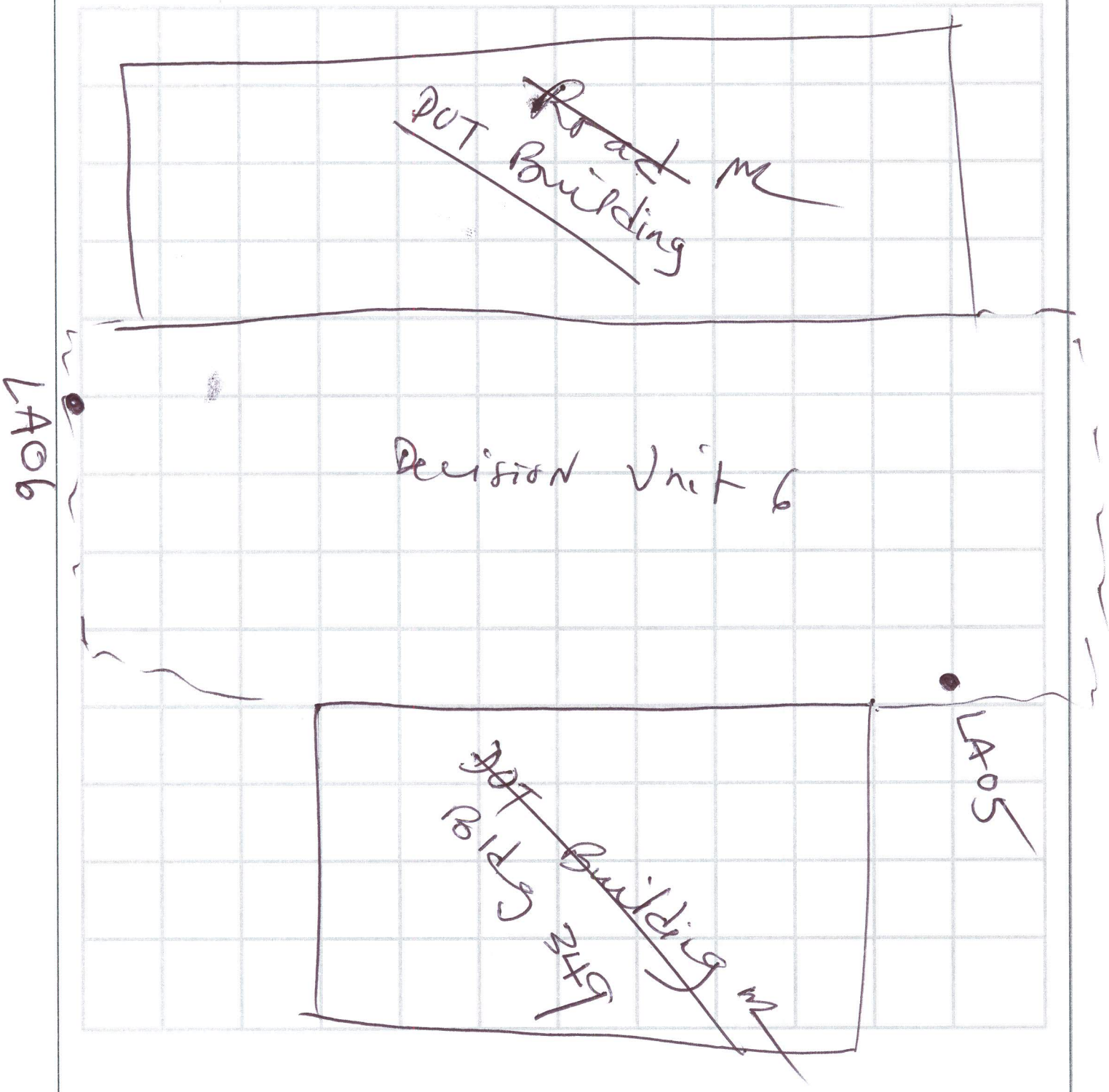
7/21/2012

GOI-2647

GLOBETECK GROUP, INC.

Sample Location Map

Page 1 of 1



INALAB, Inc.
LABORATORY DIVISION
ANALYTICAL REPORT

NVLAP LAB CODE 200655-0

Thursday, August 02, 2012

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3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
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AIHA LAP, LLC ACCREDITED LABORATORY ENVIRONMENTAL LEAD ISO/IEC 17025:2005 LAB # 101812

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 LAB # 101812

Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122314
Your Project: GGI-2647, Lead Abatement & Soil Excavation, Decision Unit 6

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20120730040	**LA04 Joel Smith (07/21/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					
20120730041	**LA05 Upwind (07/21/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					
20120730042	**LA06 Downwind (07/21/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

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Mr. Mohammad Rouf
Globeteck Group, Inc.
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Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122314
Your Project: GGI-2647, Lead Abatement & Soil Excavation, Decision Unit 6

General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The samples analyses subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sampl relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of INALAB, Inc. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. For air samples, results are calculated based on the reported air volumes. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

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RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu
Laboratory Manager

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name: Lead Abatement & Soil Excavation
Site: Decison Unit 6
Client Name: Northwest Demolition
Project #: GGI-2647 G12-

Collected By: M. Rouf
Collection Date: 7/23/2012
TAT:

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
LA07	7/23/2012		Upwind	UW	0730	1730	600	2	2	2	1200		179799
LA08	7/23/2012		Downwind	DW	0730	1730	600	2	2	2	1200		179800
LA09	7/23/2012		Joel Smith	P	0730 / 1200	1230 / 1730	530	2	2	2	1100		179801

Categories:

P	PERSONAL	DW	DOWNWIND	IA	INSIDE AREA
UW	UPWIND	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:
Date Analyzed:

Reviewed By:
Date Reviewed:

Relinquished By: Received By: Relinquished By: Received By:

DAILY SITE REPORT

GLOBETECK GROUP, INC.
534 Ohohia Street, Suite #B
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Date: 7/23/2012
Start Time: 0730
Project #: GGI-2647 G12-2944
End Time: 1730
Project Name: Lead Soil Excavation
Project Site: Revision Unit 6
Visitors: Jevon Stone
Client: Northwest Demolition
Log In: Sean
Joel Smith

Sample ID #'s for all Samples collected

Globeteck Personnel: M. Rouf

Contractors Work: Contractor used excavator to remove top 12 inches of Lead-contaminated soil. A laser-guided tripod was used to determine the depth of soil.

Globeteck Inspector's Work: Calibrated all personal pumps. pumps were setup upwind & downwind directions. The PM MaryAnn Amann, frequently visits the jobsite.

Samples Collected: Asbestos Air: ____ PLM: ____ TCLP: ____
Lead Air: 3 Lead Wipes: ____ Lead Soil: ____
Number of Workers: ____

Number of Samples Collected: 3

Globeteck Inspector's Signature

Contractor Supervisor Signature

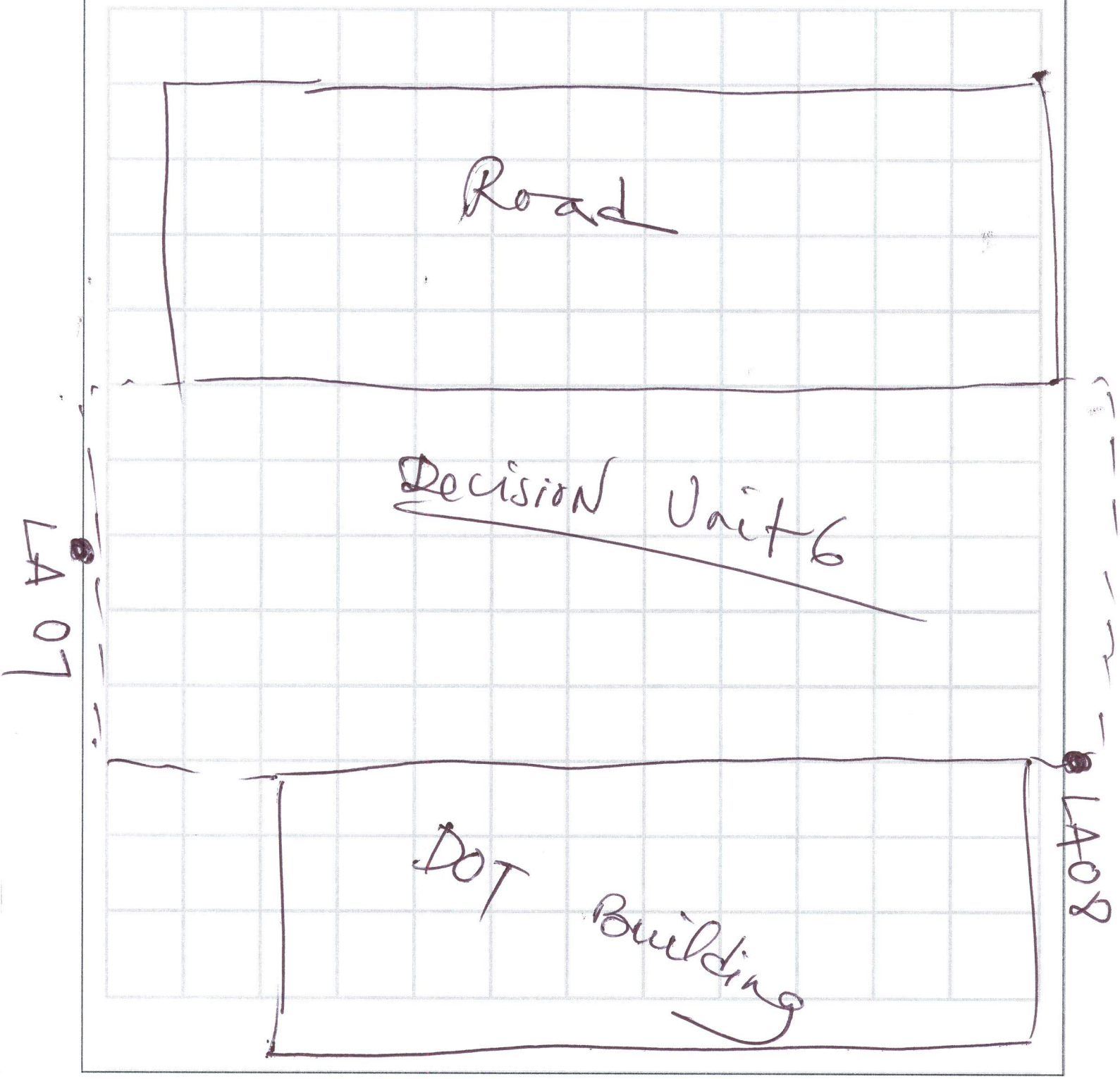
7/23/2012

GGI-12647

GLOBETECK GROUP, INC.

Sample Location Map

Page 1 of 1



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LABORATORY DIVISION
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Thursday, August 02, 2012

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Mr. Mohammad Rouf
Globeteck Group, Inc.
534 Ohohia St, Ste #B

Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122315
Your Project: GGI-2647, Lead Abatement & Soil Excavation, Decision Unit 6

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20120730043	**LA07 Upwind (07/23/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					
20120730044	**LA08 Downwind (07/23/12)**	UNK	< 4.2	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.2 ug/m3					
20120730045	**LA09 Joel Smith (07/23/12)**	UNK	< 4.6	ug/m3	7/30/2012	7/31/2012
Comments	MRL = 4.6 ug/m3					

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Honolulu HI 96819

Phone Number: (808) 833-5787
Facsimile: (808) 833-5987
Email: mohammad@globeteckgroup.com; lab@globeteckgroup.co

INALAB Job No: 20122315
Your Project: GGI-2647, Lead Abatement & Soil Excavation, Decision Unit 6

General Comments
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> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
ND = NOT DETECTED which means the analyte, if present below our stated detection limit/ level.
RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu
Laboratory Manager

APPENDIX E
TESTAMERICA LABORATORY REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-35246-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
55 SW Yamhill St # 200
Portland, Oregon 97204-3338

Attn: Sean Ragain

Kristine D. Allen

Authorized for release by:
10/31/2012 2:10:34 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Job ID: 580-35246-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 10/2/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º C.

Metals - Method(s) 6010C
Samples MEP2012 (580-35246-7) were analyzed at dilution for lead. This analyte is reported from the 6500ICP, for which internal standards, indium and yttrium, are added to all standards and samples during analysis. The indium counts in these samples were outside of QC criteria (70-130% of the indium counts in the ICB), therefore, the analyte referencing indium was diluted for analysis. Elevated reporting limits (RLs) are provided.

The following samples were reported from the 6500ICP, for which internal standards, indium and yttrium, are added to all standards and samples during analysis: (LB 180-52778/2-B-5), (LB 180-52943/2-B -5), (LB 180-53210/2-B-5), MEP2012 (580-35246-7). The samples were diluted due to sodium in the TCLP solution #1 added during the prep process, which causes suppression of the internal standards (ISTDs). Elevated reporting limits (RLs) are provided.

Lead was detected in method blank LB 180-51989/2-B LB at a level below the reporting limit but greater than the method detection limit. The value should be considered an estimate and has been "J" flagged. ". The associated sample results have been flagged “B”.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: DUP-26

Lab Sample ID: 580-35246-1

Date Collected: 09/18/12 00:00

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		2.8	0.28	mg/Kg		10/18/12 13:13	10/19/12 10:01	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: DUP-25

Lab Sample ID: 580-35246-2

Date Collected: 09/18/12 00:00

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.9	0.29	mg/Kg		10/18/12 13:13	10/19/12 10:11	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: 393

Lab Sample ID: 580-35246-3

Date Collected: 09/18/12 09:50

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		3.1	0.31	mg/Kg		10/18/12 13:13	10/19/12 10:15	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: 151

Lab Sample ID: 580-35246-4

Date Collected: 09/08/12 12:30

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	81		3.0	0.30	mg/Kg		10/18/12 13:13	10/19/12 10:20	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: DUP-23

Lab Sample ID: 580-35246-5

Date Collected: 09/08/12 00:00

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170		2.9	0.29	mg/Kg		10/18/12 13:13	10/19/12 10:25	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: DUP-24

Lab Sample ID: 580-35246-6

Date Collected: 09/08/12 00:00

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		2.8	0.28	mg/Kg		10/18/12 13:13	10/19/12 10:37	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: MEP2012

Lab Sample ID: 580-35246-7

Date Collected: 09/21/12 09:30

Matrix: Solid

Date Received: 10/02/12 09:40

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.6		3.0	1.3	ug/L		10/17/12 12:48	10/18/12 16:07	1
Lead	12		3.0	1.3	ug/L		10/17/12 12:48	10/18/12 16:13	1
Lead	15	B	3.0	1.3	ug/L		10/17/12 12:48	10/18/12 16:18	1
Lead	25		15	6.3	ug/L		10/22/12 10:54	10/23/12 10:19	5
Lead	21		15	6.3	ug/L		10/22/12 10:54	10/23/12 10:35	5
Lead	20		15	6.3	ug/L		10/22/12 10:54	10/23/12 10:40	5
Lead	20		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:33	5
Lead	19		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:39	5
Lead	22		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:44	5

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-122773/7-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 122873 — **Prep Batch: 122773**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.15	mg/Kg		10/18/12 13:13	10/19/12 09:44	1

Lab Sample ID: LCS 580-122773/8-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 122873 — **Prep Batch: 122773**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	54.1		mg/Kg		108	80 - 120

Lab Sample ID: LCSD 580-122773/9-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 122873 — **Prep Batch: 122773**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	52.6		mg/Kg		105	80 - 120	3	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-52265/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/17/12 12:48	10/18/12 15:35	1

Lab Sample ID: LCS 180-52265/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	496		ug/L		99	80 - 120

Lab Sample ID: LCSD 180-52265/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	500	491		ug/L		98	80 - 120	1	20

Lab Sample ID: MB 180-52731/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/22/12 10:54	10/23/12 09:32	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-52731/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	519		ug/L		104	80 - 120

Lab Sample ID: LCSD 180-52731/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	500	523		ug/L		105	80 - 120	1	20

Lab Sample ID: MB 180-53503/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/29/12 10:17	10/30/12 12:03	1

Lab Sample ID: LCS 180-53503/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	517		ug/L		103	80 - 120

Lab Sample ID: LCSD 180-53503/3-A ^5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	500	520		ug/L		104	80 - 120	1	20

Lab Sample ID: LB 180-51472/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/17/12 12:48	10/18/12 15:40	1

Lab Sample ID: LB 180-51650/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/17/12 12:48	10/18/12 15:46	1

Lab Sample ID: LB 180-51989/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52568 — **Prep Batch: 52265**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.38	J	3.0	1.3	ug/L		10/17/12 12:48	10/18/12 15:51	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 180-52130/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/22/12 10:54	10/23/12 09:47	1

Lab Sample ID: LB 180-52337/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/22/12 10:54	10/23/12 09:52	1

Lab Sample ID: LB 180-52471/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 52875 — **Prep Batch: 52731**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		3.0	1.3	ug/L		10/22/12 10:54	10/23/12 09:57	1

Lab Sample ID: LB 180-52778/2-B ^5 LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:18	5

Lab Sample ID: LB 180-52943/2-B ^5 LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:23	5

Lab Sample ID: LB 180-53210/2-B ^5 LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 53697 — **Prep Batch: 53503**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		15	6.3	ug/L		10/29/12 10:17	10/30/12 12:28	5

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: DUP-26 — Lab Sample ID: 580-35246-1

Date Collected: 09/18/12 00:00 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:01	HM	TAL SEA

Client Sample ID: DUP-25 — Lab Sample ID: 580-35246-2

Date Collected: 09/18/12 00:00 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:11	HM	TAL SEA

Client Sample ID: 393 — Lab Sample ID: 580-35246-3

Date Collected: 09/18/12 09:50 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:15	HM	TAL SEA

Client Sample ID: 151 — Lab Sample ID: 580-35246-4

Date Collected: 09/08/12 12:30 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:20	HM	TAL SEA

Client Sample ID: DUP-23 — Lab Sample ID: 580-35246-5

Date Collected: 09/08/12 00:00 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:25	HM	TAL SEA

Client Sample ID: DUP-24 — Lab Sample ID: 580-35246-6

Date Collected: 09/08/12 00:00 — **Matrix: Solid**
Date Received: 10/02/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			122773	10/18/12 13:13	PAB	TAL SEA
Total/NA	Analysis	6010B		10	122873	10/19/12 10:37	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Client Sample ID: MEP2012

Date Collected: 09/21/12 09:30
Date Received: 10/02/12 09:40

Lab Sample ID: 580-35246-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			51472	10/10/12 15:00	SP	TAL PIT
Leach	Prep	3010A			52265	10/17/12 12:48	CH	TAL PIT
Leach	Analysis	6010C		1	52568	10/18/12 16:07	JR	TAL PIT
Leach	Leach	1320			51650	10/11/12 17:01	SP	TAL PIT
Leach	Prep	3010A			52265	10/17/12 12:48	CH	TAL PIT
Leach	Analysis	6010C		1	52568	10/18/12 16:13	JR	TAL PIT
Leach	Leach	1320			51989	10/15/12 16:56	SP	TAL PIT
Leach	Prep	3010A			52265	10/17/12 12:48	CH	TAL PIT
Leach	Analysis	6010C		1	52568	10/18/12 16:18	JR	TAL PIT
Leach	Leach	1320			52130	10/16/12 15:50	SP	TAL PIT
Leach	Prep	3010A			52731	10/22/12 10:54	CH	TAL PIT
Leach	Analysis	6010C		5	52875	10/23/12 10:19	JR	TAL PIT
Leach	Leach	1320			52337	10/17/12 18:09	SP	TAL PIT
Leach	Prep	3010A			52731	10/22/12 10:54	CH	TAL PIT
Leach	Analysis	6010C		5	52875	10/23/12 10:35	JR	TAL PIT
Leach	Leach	1320			52471	10/18/12 17:04	SP	TAL PIT
Leach	Prep	3010A			52731	10/22/12 10:54	CH	TAL PIT
Leach	Analysis	6010C		5	52875	10/23/12 10:40	JR	TAL PIT
Leach	Leach	1320			52778	10/22/12 15:37	SP	TAL PIT
Leach	Prep	3010A			53503	10/29/12 10:17	CH	TAL PIT
Leach	Analysis	6010C		5	53697	10/30/12 12:33	JR	TAL PIT
Leach	Leach	1320			52943	10/23/12 17:24	SP	TAL PIT
Leach	Prep	3010A			53503	10/29/12 10:17	CH	TAL PIT
Leach	Analysis	6010C		5	53697	10/30/12 12:39	JR	TAL PIT
Leach	Leach	1320			53210	10/25/12 14:41	SP	TAL PIT
Leach	Prep	3010A			53503	10/29/12 10:17	CH	TAL PIT
Leach	Analysis	6010C		5	53697	10/30/12 12:44	JR	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-35246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-35246-1	DUP-26	Solid	09/18/12 00:00	10/02/12 09:40
580-35246-2	DUP-25	Solid	09/18/12 00:00	10/02/12 09:40
580-35246-3	393	Solid	09/18/12 09:50	10/02/12 09:40
580-35246-4	151	Solid	09/08/12 12:30	10/02/12 09:40
580-35246-5	DUP-23	Solid	09/08/12 00:00	10/02/12 09:40
580-35246-6	DUP-24	Solid	09/08/12 00:00	10/02/12 09:40
580-35246-7	MEP2012	Solid	09/21/12 09:30	10/02/12 09:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY	
LAB JOB NO.	352416
LOCATION	
CONTAINERS	

Chain of Custody / Analysis Request Form

Report to: Brent Miller		Project identification	
Company name: Geosyntec Consultants		Job name: PNG0515-Midway	
Address: 1201 Third Ave, Suite 330		Job number	
City: Seattle	State: WA	ZIP: 98101	P.O. Number
Phone: 206 496-1450	Fax	Contact email address: bmiller@geosyntec.com mschott@geosyntec.com	Date Results Needed
Sampler: M Schott	# samples in shipment: 7		

Indicate analyses requested: ICS/MIS for Lead GOORS; Multi Extract Procedure MEP for Lead

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	ICS/MIS for Lead GOORS	Multi Extract Procedure MEP for Lead									Laboratory ID no.
1	1 DUP-26	X			X								none	9/18/12		1	X										
2	2 DUP-25	X			X								none	9/18/12		1	X										
3	3 393	X			X								none	9/18/12	0950	1	X										
4	4 151	X			X								none	9/8/12	1230	1	X										
5	5 DUP-23	X			X								none	9/8/12		1	X										
6	6 DUP-24	X			X								none	9/8/12		1	X										
7	7 MEP2012	X			X								none	9/21/12	0930	2		X									
8																											
9																											
10																											

Cooler/TB Dig/IR cor 1.7 unc 1.9
Cooler Dsc on blue ice @ Lab —
Wet/Packs Packing other
w/o Folder S.O.

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Michael Schott	9/28/12 1900		[illegible]	TA Honolulu	9/28/12 1900	Intact No Bubble
	1		Cathy Crumble Cathy Crumble	TA Sac	9/28/12 1	222
	1				10/2/12 9:40 1	

Comments: Reference quote # 58005495

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

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Subcontract Order - TestAmerica Honolulu (HVI0155)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub HON HVI0155**

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Kristie Reilly
Client: TestAmerica Seattle

RECEIVING LABORATORY:

TestAmerica Seattle
5755 8th Street East
Tacoma,, WA 98424
Phone :(253) 922-2310
Fax: 253
Project Location: Washington
Receipt Temperature:_____°C Ice: Y / N

Copy from HVI0021.

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HVI0155-01 (DUP-26 - Solid/Soil) Sampled: **09/18/12 00:00**						
Incremental Subsample Pass-through	Hr	10/12/12	11/17/12 01:00	$0.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (B)						
Sample ID: HVI0155-02 (DUP-25 - Solid/Soil) Sampled: **09/18/12 00:00**						
Incremental Subsample Pass-through	Hr	10/12/12	11/17/12 01:00	$0.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (B)						
Sample ID: HVI0155-03 (393 - Solid/Soil) Sampled: **09/18/12 09:50**						
Incremental Subsample Pass-through	Hr	10/12/12	11/17/12 10:50	$0.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (B)						
Sample ID: HVI0155-04 (151 - Solid/Soil) Sampled: **09/08/12 12:30**						
Incremental Subsample Pass-through	Hr	10/12/12	11/07/12 13:30	$0.00	0%	
Containers Supplied: Incremental Sub-sample (analyze entire content) (B)						

Released By	Date/Time	Received By	Date/Time
Nina Kim	10/1/12 1155	Patty Gamble	10/2/12 9:40

Subcontract Order - TestAmerica Honolulu (HVI0155)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub HON HVI0155**

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HVI0155-05 (DUP-23 - Solid/Soil)			Sampled: **09/08/12 00:00**			
Incremental Subsample Pass-through	Hr	10/12/12	11/07/12 01:00	$0.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (B)						
Sample ID: HVI0155-06 (DUP-24 - Solid/Soil)			Sampled: **09/08/12 00:00**			
Incremental Subsample Pass-through	Hr	10/12/12	11/07/12 01:00	$0.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (B)						

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-35246-1

Login Number: 35246

List Source: TestAmerica Seattle

List Number: 1

Creator: Balles, Racheal

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-35246-1

Login Number: 35246
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 10/05/12 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-34887-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
1201 3rd Avenue
Suite #330
Seattle, Washington 98101

Attn: Brent Miller

Pamela R. Johnson

Authorized for release by:
9/20/2012 1:25:42 PM
Pam Johnson
Project Manager I
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Designee for

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Job ID: 580-34887-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 9/11/2012 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.7º C.

Metals - Method 6010B
Lead was detected in method blank MB 580-120251/19-A at a level that was above the method detection limit but below the reporting limit.
The value should be considered an estimate, and has been flagged “J”. The associated sample results have been flagged “B”.

No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 342

Lab Sample ID: 580-34887-1

Date Collected: 07/31/12 08:30

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	620	B	3.0	0.30	mg/Kg		09/17/12 15:52	09/18/12 14:46	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-11

Lab Sample ID: 580-34887-2

Date Collected: 07/31/12 08:30

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	460	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 14:55	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-12

Lab Sample ID: 580-34887-3

Date Collected: 07/31/12 08:30

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	380	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 15:00	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 619

Lab Sample ID: 580-34887-4

Date Collected: 08/20/12 09:28

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	59	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 15:04	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-13

Lab Sample ID: 580-34887-5

Date Collected: 08/20/12 09:28

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	59	B	3.0	0.30	mg/Kg		09/17/12 15:52	09/18/12 15:09	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-14

Lab Sample ID: 580-34887-6

Date Collected: 08/20/12 09:28

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 15:21	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 628

Lab Sample ID: 580-34887-7

Date Collected: 08/18/12 17:02

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	56	B	2.8	0.28	mg/Kg		09/17/12 15:52	09/18/12 15:26	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-15

Lab Sample ID: 580-34887-8

Date Collected: 08/18/12 17:02

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	91	B	3.0	0.30	mg/Kg		09/17/12 15:52	09/18/12 15:31	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-16

Lab Sample ID: 580-34887-9

Date Collected: 08/18/12 17:02

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	74	B	2.8	0.28	mg/Kg		09/17/12 15:52	09/18/12 15:35	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 643

Date Collected: 08/22/12 17:02
Date Received: 09/12/12 09:40

Lab Sample ID: 580-34887-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230	B	2.8	0.28	mg/Kg		09/17/12 15:52	09/18/12 15:40	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-17

Lab Sample ID: 580-34887-11

Date Collected: 08/22/12 17:02

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	280	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 15:45	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-18

Lab Sample ID: 580-34887-12

Date Collected: 08/22/12 17:02

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	300	B	2.8	0.28	mg/Kg		09/17/12 15:52	09/18/12 15:49	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 623

Date Collected: 08/23/12 16:30
Date Received: 09/12/12 09:40

Lab Sample ID: 580-34887-13

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190	B	3.0	0.30	mg/Kg		09/17/12 15:52	09/18/12 15:54	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-19

Lab Sample ID: 580-34887-14

Date Collected: 08/23/12 16:30

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 15:59	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-20

Lab Sample ID: 580-34887-15

Date Collected: 08/23/12 16:30

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 16:04	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 626

Date Collected: 08/24/12 11:56
Date Received: 09/12/12 09:40

Lab Sample ID: 580-34887-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	300	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 16:16	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-21

Lab Sample ID: 580-34887-17

Date Collected: 08/24/12 11:56

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180	B	3.0	0.30	mg/Kg		09/17/12 15:52	09/18/12 16:20	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: DUP-22

Lab Sample ID: 580-34887-18

Date Collected: 08/24/12 11:56

Matrix: Solid

Date Received: 09/12/12 09:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180	B	2.9	0.29	mg/Kg		09/17/12 15:52	09/18/12 16:25	10

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-120251/19-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120404 — **Prep Batch: 120251**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.545	J	1.5	0.15	mg/Kg		09/17/12 15:52	09/18/12 14:29	1

Lab Sample ID: LCS 580-120251/20-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120404 — **Prep Batch: 120251**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	51.8		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 580-120251/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 120404 — **Prep Batch: 120251**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	51.9		mg/Kg		104	80 - 120	0	20

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 342 — Lab Sample ID: 580-34887-1

Date Collected: 07/31/12 08:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 14:46	HM	TAL SEA

Client Sample ID: DUP-11 — Lab Sample ID: 580-34887-2

Date Collected: 07/31/12 08:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 14:55	HM	TAL SEA

Client Sample ID: DUP-12 — Lab Sample ID: 580-34887-3

Date Collected: 07/31/12 08:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:00	HM	TAL SEA

Client Sample ID: 619 — Lab Sample ID: 580-34887-4

Date Collected: 08/20/12 09:28 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:04	HM	TAL SEA

Client Sample ID: DUP-13 — Lab Sample ID: 580-34887-5

Date Collected: 08/20/12 09:28 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:09	HM	TAL SEA

Client Sample ID: DUP-14 — Lab Sample ID: 580-34887-6

Date Collected: 08/20/12 09:28 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:21	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 628 — Lab Sample ID: 580-34887-7

Date Collected: 08/18/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:26	HM	TAL SEA

Client Sample ID: DUP-15 — Lab Sample ID: 580-34887-8

Date Collected: 08/18/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:31	HM	TAL SEA

Client Sample ID: DUP-16 — Lab Sample ID: 580-34887-9

Date Collected: 08/18/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:35	HM	TAL SEA

Client Sample ID: 643 — Lab Sample ID: 580-34887-10

Date Collected: 08/22/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:40	HM	TAL SEA

Client Sample ID: DUP-17 — Lab Sample ID: 580-34887-11

Date Collected: 08/22/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:45	HM	TAL SEA

Client Sample ID: DUP-18 — Lab Sample ID: 580-34887-12

Date Collected: 08/22/12 17:02 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:49	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Client Sample ID: 623 — Lab Sample ID: 580-34887-13

Date Collected: 08/23/12 16:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:54	HM	TAL SEA

Client Sample ID: DUP-19 — Lab Sample ID: 580-34887-14

Date Collected: 08/23/12 16:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 15:59	HM	TAL SEA

Client Sample ID: DUP-20 — Lab Sample ID: 580-34887-15

Date Collected: 08/23/12 16:30 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 16:04	HM	TAL SEA

Client Sample ID: 626 — Lab Sample ID: 580-34887-16

Date Collected: 08/24/12 11:56 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 16:16	HM	TAL SEA

Client Sample ID: DUP-21 — Lab Sample ID: 580-34887-17

Date Collected: 08/24/12 11:56 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 16:20	HM	TAL SEA

Client Sample ID: DUP-22 — Lab Sample ID: 580-34887-18

Date Collected: 08/24/12 11:56 — **Matrix: Solid**
Date Received: 09/12/12 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			120251	09/17/12 15:52	PAB	TAL SEA
Total/NA	Analysis	6010B		10	120404	09/18/12 16:25	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34887-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34887-1	342	Solid	07/31/12 08:30	09/12/12 09:40
580-34887-2	DUP-11	Solid	07/31/12 08:30	09/12/12 09:40
580-34887-3	DUP-12	Solid	07/31/12 08:30	09/12/12 09:40
580-34887-4	619	Solid	08/20/12 09:28	09/12/12 09:40
580-34887-5	DUP-13	Solid	08/20/12 09:28	09/12/12 09:40
580-34887-6	DUP-14	Solid	08/20/12 09:28	09/12/12 09:40
580-34887-7	628	Solid	08/18/12 17:02	09/12/12 09:40
580-34887-8	DUP-15	Solid	08/18/12 17:02	09/12/12 09:40
580-34887-9	DUP-16	Solid	08/18/12 17:02	09/12/12 09:40
580-34887-10	643	Solid	08/22/12 17:02	09/12/12 09:40
580-34887-11	DUP-17	Solid	08/22/12 17:02	09/12/12 09:40
580-34887-12	DUP-18	Solid	08/22/12 17:02	09/12/12 09:40
580-34887-13	623	Solid	08/23/12 16:30	09/12/12 09:40
580-34887-14	DUP-19	Solid	08/23/12 16:30	09/12/12 09:40
580-34887-15	DUP-20	Solid	08/23/12 16:30	09/12/12 09:40
580-34887-16	626	Solid	08/24/12 11:56	09/12/12 09:40
580-34887-17	DUP-21	Solid	08/24/12 11:56	09/12/12 09:40
580-34887-18	DUP-22	Solid	08/24/12 11:56	09/12/12 09:40

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THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. ____
LOCATION ____
CONTAINERS ____

Chain of Custody / Analysis Request Form

Report to: BRENT MILLER	Project identification
Company name: GEOSYNTEC CONSULTANTS	Job name: PNG0515 - MIDWAY
Address: 1201 THIRD AVE, SUITE 330	Job number:
City: SEATTLE State: WA ZIP: 98101	P.O. Number:
Phone: 206-496-1450 Fax:	Contact email address: BMILLER@GEOSYNTEC.COM CTYRRELL@GEOSYNTEC.COM
Sampler: C. TYRRELL # samples in shipment: 18	Date Results Needed:

Indicate analyses requested: ICS/MIS FOR-LEAD 6010B

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Sampling Time	No. of containers	ICS/MIS FOR-LEAD 6010B	Laboratory ID no.
1	342				✓								–	07/31/12	08:30	1	✓	
2	DUP-11				✓								–	07/31/12	08:30	1	✓	
3	DUP-12				✓								–	07/31/12	08:30	1	✓	
4	619				✓								–	08/20/12	09:28	1	✓	
5	DUP-13				✓								–	08/20/12	09:28	1	✓	
6	DUP-14				✓								–	08/20/12	09:28	1	✓	
7	628				✓								–	08/18/12	17:02	1	✓	
8	DUP-15				✓								–	08/18/12	17:02	1	✓	
9	DUP-16				✓								–	08/18/12	17:02	1	✓	
10	643				✓									08/22/12	17:02	1	✓	

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
C. TYRRELL	9/6/12 / 4:10		[illegible]	TA Kan	9/6/12 / 1610	[illegible]
	/		Kathy Campbell	TA-Sea	9/11/12 / 9:40	222
	/				/	

Comments:
REFERENCE QUOTE # 58005495
ALL MIS/ICS SAMPLES ARE COMPRISED OF 32 ALIQUOTS/INCREMENTS

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

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LAB JOB NO. ____
LOCATION ____
CONTAINERS ____

Chain of Custody / Analysis Request Form

Report to: BRENT MILLER	Project identification
Company name: GEOSYNTEC CONSULTANTS	Job name: PNG0515 - MIDWAY
Address: 1201 THIRD AVE, SUITE 330	Job number:
City: SEATTLE State: WA ZIP: 98101	P.O. Number:
Phone: 206-496-1450 Fax:	Contact email address: BMILLER@GEOSYNTEC.COM CTYRRELL@GEOSYNTEC.COM
Sampler: C. TYRRELL # samples in shipment: 18	Date Results Needed:

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	ICS/MTS FOR LEAD 6010B									Laboratory ID no.
11 1	DUP-17				✓								–	08/22/12	17:02	1	✓									
12 2	DUP-18				✓								–	08/22/12	17:02	1	✓									
13 3	623				✓								–	08/23/12	16:30	1	✓									
14 4	DUP-19				✓								–	08/23/12	16:30	1	✓									
15 5	DUP-20				✓								–	08/23/12	16:30	1	✓									
16 6	626				✓								–	08/24/12	11:56	1	✓									
17 7	DUP-21				✓								–	08/24/12	11:56	1	✓									
18 8	DUP-22				✓								–	08/24/12	11:56	1	✓									
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
C TYRRELL	9/6/12 4:10			TA	9/6/12 1 1610	Rush No Ice 222
	/			TA. Sea	9/11/12 1 9:40	
	/				/	

Comments:
REFERENCE QUOTE #58005495
ALL MTS/ICS SAMPLES ARE COMPRISED OF 32 ALIQUOTS/INCREMENTS

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

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Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34887-1

Login Number: 34887
List Number: 1
Creator: Balles, Racheal

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-34634-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
1201 3rd Avenue
Suite #330
Seattle, Washington 98101

Attn: Brent Miller

Kristine D. Allen

Authorized for release by:
9/7/2012 12:13:12 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Job ID: 580-34634-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The sample was received on 8/25/2012 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA - Method 8081
The percent difference between the quantitation and confirmation column for the following samples was greater than 40%: LCS 580-119231/2-A, LCSD 580-119231/3-A. The higher of the two values has been reported and the compound has been "P" flagged.

The percent difference between the quantitation and confirmation column for the following samples was greater than 40%: B3082212 (580-34634-1), . The lower of the two values has been reported and the compound has been "p" flagged.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep - Method(s) 3550B
A deviation from the Standard Operating Procedure (SOP) occurred for the following sample :B3082212 (580-34634-1). There was not enough volume to run a MS/MSD as samples are multi-incremental. An LCS/LCSD was used to demonstrate batch precision.

No other analytical or quality issues were noted.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Client Sample ID: B3082212

Date Collected: 08/22/12 09:58
Date Received: 08/25/12 08:50

Lab Sample ID: 580-34634-1

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.6	0.63	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
2-Methylnaphthalene	ND		1.6	0.63	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
1-Methylnaphthalene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Acenaphthylene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Acenaphthene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Fluorene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Phenanthrene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Anthracene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Fluoranthene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Pyrene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Benzo[a]anthracene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Chrysene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Benzo[b]fluoranthene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Benzo[k]fluoranthene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Benzo[a]pyrene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Indeno[1,2,3-cd]pyrene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Dibenz(a,h)anthracene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1
Benzo[g,h,i]perylene	ND		1.6	0.47	ug/Kg		09/05/12 10:47	09/05/12 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*88*		*42 - 151*	*09/05/12 10:47*	*09/05/12 17:14*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.33	0.073	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
alpha-BHC	ND		0.33	0.091	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
beta-BHC	ND		0.33	0.11	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
delta-BHC	ND		0.33	0.049	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
gamma-BHC (Lindane)	ND		0.33	0.099	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
4,4'-DDD	ND		0.66	0.048	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
4,4'-DDE	ND		0.66	0.046	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
4,4'-DDT	**0.064**	**J p**	0.66	0.050	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Dieldrin	ND	p	0.66	0.039	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endosulfan I	ND		0.33	0.034	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endosulfan II	ND		0.66	0.056	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endosulfan sulfate	ND		0.66	0.061	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endrin	ND		0.66	0.054	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endrin aldehyde	ND		0.66	0.065	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Heptachlor	ND		0.66	0.15	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Heptachlor epoxide	ND		0.33	0.00099	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Methoxychlor	ND		3.3	0.085	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Endrin ketone	ND		0.66	0.085	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
Toxaphene	ND		33	7.5	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
alpha-Chlordane	**0.25**	**J**	0.33	0.044	ug/Kg		09/04/12 14:17	09/06/12 10:48	1
gamma-Chlordane	**0.49**		0.33	0.044	ug/Kg		09/04/12 14:17	09/06/12 10:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 123*	*09/04/12 14:17*	*09/06/12 10:48*	*1*
DCB Decachlorobiphenyl	*94*		*40 - 158*	*09/04/12 14:17*	*09/06/12 10:48*	*1*

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Client Sample ID: B3082212

Date Collected: 08/22/12 09:58
Date Received: 08/25/12 08:50

Lab Sample ID: 580-34634-1

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0030	0.00097	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1221	ND		0.0033	0.0024	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1232	ND		0.0033	0.0021	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1242	ND		0.0030	0.00064	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1248	ND		0.0030	0.00091	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1254	ND		0.0030	0.00064	mg/Kg		08/30/12 16:18	09/04/12 14:47	1
PCB-1260	ND		0.0030	0.00091	mg/Kg		08/30/12 16:18	09/04/12 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*45 - 135*	*08/30/12 16:18*	*09/04/12 14:47*	*1*
DCB Decachlorobiphenyl	*83*		*50 - 140*	*08/30/12 16:18*	*09/04/12 14:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		5.9	0.63	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Barium	**5.4**		0.98	0.20	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Cadmium	ND		0.98	0.39	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Chromium	**4.8**		2.6	0.77	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Lead	ND		3.0	0.30	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Selenium	ND		9.8	0.39	mg/Kg		08/27/12 17:00	08/28/12 17:03	10
Silver	ND		2.0	1.1	mg/Kg		08/27/12 17:00	08/28/12 17:03	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0055	mg/Kg		08/29/12 14:33	08/30/12 12:47	10

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-119305/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119295 — **Prep Batch: 119305**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	2.0	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
2-Methylnaphthalene	ND		5.0	2.0	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
1-Methylnaphthalene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Acenaphthylene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Acenaphthene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Fluorene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Phenanthrene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Anthracene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Fluoranthene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Pyrene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Chrysene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Benzo[b]fluoranthene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Benzo[k]fluoranthene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Benzo[a]pyrene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/Kg		09/05/12 10:05	09/05/12 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*86*		*42 - 151*	*09/05/12 10:05*	*09/05/12 16:10*	*1*

Lab Sample ID: LCS 580-119305/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119295 — **Prep Batch: 119305**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1010	906		ug/Kg		90	64 - 129
2-Methylnaphthalene	1000	928		ug/Kg		93	65 - 125
1-Methylnaphthalene	1010	1000		ug/Kg		99	48 - 148
Acenaphthylene	999	996		ug/Kg		100	69 - 129
Acenaphthene	1000	902		ug/Kg		90	65 - 130
Fluorene	1010	1010		ug/Kg		100	68 - 128
Phenanthrene	1010	963		ug/Kg		96	65 - 125
Anthracene	999	1010		ug/Kg		101	73 - 123
Fluoranthene	1000	900		ug/Kg		90	61 - 121
Pyrene	999	895		ug/Kg		90	54 - 134
Benzo[a]anthracene	1000	1020		ug/Kg		102	64 - 124
Chrysene	964	929		ug/Kg		96	71 - 126
Benzo[b]fluoranthene	1000	860		ug/Kg		86	66 - 136
Benzo[k]fluoranthene	999	851		ug/Kg		85	63 - 143
Benzo[a]pyrene	1000	926		ug/Kg		93	68 - 128
Indeno[1,2,3-cd]pyrene	1010	987		ug/Kg		98	59 - 139
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	57 - 142
Benzo[g,h,i]perylene	1000	896		ug/Kg		90	57 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*86*		*42 - 151*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-119305/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119295 — **Prep Batch: 119305**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	1010	886		ug/Kg		88	64 - 129	2	26
2-Methylnaphthalene	1000	912		ug/Kg		91	65 - 125	2	27
1-Methylnaphthalene	1010	946		ug/Kg		94	48 - 148	6	30
Acenaphthylene	999	1010		ug/Kg		101	69 - 129	1	28
Acenaphthene	1000	916		ug/Kg		92	65 - 130	2	27
Fluorene	1010	1010		ug/Kg		100	68 - 128	0	31
Phenanthrene	1010	926		ug/Kg		92	65 - 125	4	28
Anthracene	999	994		ug/Kg		100	73 - 123	2	27
Fluoranthene	1000	876		ug/Kg		87	61 - 121	3	36
Pyrene	999	874		ug/Kg		88	54 - 134	2	31
Benzo[a]anthracene	1000	996		ug/Kg		99	64 - 124	2	27
Chrysene	964	903		ug/Kg		94	71 - 126	3	26
Benzo[b]fluoranthene	1000	838		ug/Kg		84	66 - 136	3	31
Benzo[k]fluoranthene	999	851		ug/Kg		85	63 - 143	0	31
Benzo[a]pyrene	1000	914		ug/Kg		91	68 - 128	1	30
Indeno[1,2,3-cd]pyrene	1010	939		ug/Kg		93	59 - 139	5	29
Dibenz(a,h)anthracene	1000	826		ug/Kg		83	57 - 142	3	30
Benzo[g,h,i]perylene	1000	871		ug/Kg		87	57 - 142	3	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*79*		*42 - 151*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-119231/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.33	0.074	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
alpha-BHC	ND		0.33	0.092	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
beta-BHC	ND		0.33	0.11	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
delta-BHC	ND		0.33	0.049	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
gamma-BHC (Lindane)	ND		0.33	0.10	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
4,4'-DDD	ND		0.67	0.049	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
4,4'-DDE	ND		0.67	0.047	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
4,4'-DDT	ND		0.67	0.051	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Dieldrin	ND		0.67	0.039	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endosulfan I	ND		0.33	0.034	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endosulfan II	ND		0.67	0.057	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endosulfan sulfate	ND		0.67	0.062	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endrin	ND		0.67	0.054	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endrin aldehyde	ND		0.67	0.066	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Heptachlor	ND		0.67	0.15	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Heptachlor epoxide	ND		0.33	0.0010	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Methoxychlor	ND		3.3	0.086	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Endrin ketone	ND		0.67	0.086	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
Toxaphene	ND		33	7.6	ug/Kg		09/04/12 14:17	09/06/12 08:55	1
alpha-Chlordane	ND		0.33	0.045	ug/Kg		09/04/12 14:17	09/06/12 08:55	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-119231/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		0.33	0.045	ug/Kg		09/04/12 14:17	09/06/12 08:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 123*	*09/04/12 14:17*	*09/06/12 08:55*	*1*
DCB Decachlorobiphenyl	*88*		*40 - 158*	*09/04/12 14:17*	*09/06/12 08:55*	*1*

Lab Sample ID: LCS 580-119231/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	6.67	5.61		ug/Kg		84	53 - 126
alpha-BHC	6.67	5.09		ug/Kg		76	41 - 128
beta-BHC	6.67	5.88		ug/Kg		88	48 - 121
delta-BHC	6.67	4.10		ug/Kg		61	22 - 153
gamma-BHC (Lindane)	6.67	5.34		ug/Kg		80	50 - 127
4,4'-DDD	6.67	6.03		ug/Kg		90	44 - 141
4,4'-DDE	6.67	6.13		ug/Kg		92	47 - 140
4,4'-DDT	6.67	5.49		ug/Kg		82	34 - 159
Dieldrin	6.67	6.42		ug/Kg		96	53 - 134
Endosulfan I	6.67	6.40		ug/Kg		96	52 - 122
Endosulfan II	6.67	6.10		ug/Kg		92	53 - 132
Endosulfan sulfate	6.67	5.38		ug/Kg		81	42 - 128
Endrin	6.67	6.59		ug/Kg		99	46 - 138
Endrin aldehyde	6.67	4.09		ug/Kg		61	12 - 179
Heptachlor	6.67	6.17	P	ug/Kg		92	50 - 130
Heptachlor epoxide	6.67	6.38	P	ug/Kg		96	49 - 123
Methoxychlor	6.67	6.28		ug/Kg		94	46 - 154
Endrin ketone	6.67	6.10		ug/Kg		91	45 - 127
alpha-Chlordane	6.67	6.05		ug/Kg		91	46 - 118
gamma-Chlordane	6.67	5.79		ug/Kg		87	49 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*49 - 123*
DCB Decachlorobiphenyl	*93*		*40 - 158*

Lab Sample ID: LCS 580-119231/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	167	161		ug/Kg		96	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*49 - 123*
DCB Decachlorobiphenyl	*98*		*40 - 158*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 580-119231/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	6.67	5.71		ug/Kg		86	53 - 126	2	24
alpha-BHC	6.67	5.20		ug/Kg		78	41 - 128	2	28
beta-BHC	6.67	5.96		ug/Kg		89	48 - 121	1	32
delta-BHC	6.67	4.15		ug/Kg		62	22 - 153	1	36
gamma-BHC (Lindane)	6.67	5.45		ug/Kg		82	50 - 127	2	29
4,4'-DDD	6.67	6.15		ug/Kg		92	44 - 141	2	41
4,4'-DDE	6.67	6.26		ug/Kg		94	47 - 140	2	40
4,4'-DDT	6.67	5.56		ug/Kg		83	34 - 159	1	47
Dieldrin	6.67	6.52		ug/Kg		98	53 - 134	2	32
Endosulfan I	6.67	6.56		ug/Kg		98	52 - 122	2	31
Endosulfan II	6.67	6.19		ug/Kg		93	53 - 132	1	36
Endosulfan sulfate	6.67	5.45		ug/Kg		82	42 - 128	1	43
Endrin	6.67	6.72		ug/Kg		101	46 - 138	2	36
Endrin aldehyde	6.67	4.19		ug/Kg		63	12 - 179	2	47
Heptachlor	6.67	6.28	P	ug/Kg		94	50 - 130	2	31
Heptachlor epoxide	6.67	6.51		ug/Kg		98	49 - 123	2	31
Methoxychlor	6.67	6.39		ug/Kg		96	46 - 154	2	46
Endrin ketone	6.67	6.17		ug/Kg		93	45 - 127	1	45
alpha-Chlordane	6.67	6.17		ug/Kg		92	46 - 118	2	33
gamma-Chlordane	6.67	5.92		ug/Kg		89	49 - 122	2	32

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*49 - 123*
DCB Decachlorobiphenyl	*92*		*40 - 158*

Lab Sample ID: LCSD 580-119231/5-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119386 — **Prep Batch: 119231**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toxaphene	167	177		ug/Kg		106	50 - 150	10	100

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*49 - 123*
DCB Decachlorobiphenyl	*100*		*40 - 158*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-119014/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119157 — **Prep Batch: 119014**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	0.0032	mg/Kg		08/30/12 16:18	09/04/12 14:10	1
PCB-1221	ND		0.011	0.0080	mg/Kg		08/30/12 16:18	09/04/12 14:10	1
PCB-1232	ND		0.011	0.0070	mg/Kg		08/30/12 16:18	09/04/12 14:10	1
PCB-1242	ND		0.010	0.0021	mg/Kg		08/30/12 16:18	09/04/12 14:10	1
PCB-1248	ND		0.010	0.0030	mg/Kg		08/30/12 16:18	09/04/12 14:10	1
PCB-1254	ND		0.010	0.0021	mg/Kg		08/30/12 16:18	09/04/12 14:10	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-119014/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119157 — **Prep Batch: 119014**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.010	0.0030	mg/Kg		08/30/12 16:18	09/04/12 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 135*	*08/30/12 16:18*	*09/04/12 14:10*	*1*
DCB Decachlorobiphenyl	*104*		*50 - 140*	*08/30/12 16:18*	*09/04/12 14:10*	*1*

Lab Sample ID: LCS 580-119014/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 119157 — **Prep Batch: 119014**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.100	0.0922		mg/Kg		92	40 - 140
PCB-1260	0.100	0.0945		mg/Kg		94	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*45 - 135*
DCB Decachlorobiphenyl	*102*		*50 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-118652/17-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118787 — **Prep Batch: 118652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	0.32	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Barium	ND		0.50	0.10	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Cadmium	ND		0.50	0.20	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Chromium	ND		1.3	0.39	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Lead	ND		1.5	0.15	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Selenium	ND		5.0	0.20	mg/Kg		08/27/12 17:00	08/28/12 15:42	1
Silver	ND		1.0	0.56	mg/Kg		08/27/12 17:00	08/28/12 15:42	1

Lab Sample ID: LCS 580-118652/18-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118787 — **Prep Batch: 118652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	195		mg/Kg		98	80 - 120
Barium	200	203		mg/Kg		101	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	21.1		mg/Kg		105	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Selenium	200	192		mg/Kg		96	80 - 120
Silver	30.0	29.5		mg/Kg		98	75 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-118652/19-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118787 — **Prep Batch: 118652**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	189		mg/Kg		94	80 - 120	3	20
Barium	200	195		mg/Kg		97	80 - 120	4	20
Cadmium	5.00	4.95		mg/Kg		99	80 - 120	3	20
Chromium	20.0	20.5		mg/Kg		103	80 - 120	3	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	3	20
Selenium	200	186		mg/Kg		93	80 - 120	3	20
Silver	30.0	28.7		mg/Kg		96	75 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-118874/12-A ^10 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118972 — **Prep Batch: 118874**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0063	mg/Kg		08/29/12 14:33	08/30/12 12:15	10

Lab Sample ID: LCS 580-118874/13-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118972 — **Prep Batch: 118874**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.100	0.0808		mg/Kg		81	80 - 120

Lab Sample ID: LCSD 580-118874/14-A ^10 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118972 — **Prep Batch: 118874**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.100	0.0949		mg/Kg		95	80 - 120	16	20

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Client Sample ID: B3082212

Lab Sample ID: 580-34634-1

Date Collected: 08/22/12 09:58

Matrix: Solid

Date Received: 08/25/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			119305	09/05/12 10:47	RL	TAL SEA
Total/NA	Analysis	8270C SIM		1	119295	09/05/12 17:14	HLP	TAL SEA
Total/NA	Prep	3550B			119014	08/30/12 16:18	AA	TAL SEA
Total/NA	Analysis	8082		1	119157	09/04/12 14:47	KKW	TAL SEA
Total/NA	Prep	3550B			119231	09/04/12 14:17	AA	TAL SEA
Total/NA	Analysis	8081A		1	119386	09/06/12 10:48	EK	TAL SEA
Total/NA	Prep	3050B			118652	08/27/12 17:00	PAB	TAL SEA
Total/NA	Analysis	6010B		10	118787	08/28/12 17:03	HM	TAL SEA
Total/NA	Prep	7471A			118874	08/29/12 14:33	PAB	TAL SEA
Total/NA	Analysis	7471A		10	118972	08/30/12 12:47	PAB	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34634-1	B3082212	Solid	08/22/12 09:58	08/25/12 08:50

34634

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HUH0085
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: BRENT MILLER	Project identification
Company name: GEOSYNTEC CONSULTANTS	Job name: PNG0515-MIDWAY
Address: 1201 3RD AVE, SUITE 330	Job number: 580-34220
City: SEATTLE State: WA ZIP: 98101	P.O. Number:
Phone: 206-496-1450 Fax:	Contact email address: bmiller@geosyntec.com ctyrrell@geosyntec.com
Sampler: CT # samples in shipment: 1	Date Results Needed: 5 DAY TAT

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	LEAD TOTAL SW6010B/ ICS/MIS	METALS, RCRA	PCBS	PAHs	PESTICIDES					Laboratory ID no.
1	B3082212				✓									08/22/12	0958	1	✓	✓	✓	✓	✓					HUH0085-01
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
CHRISTA TYRRELL	08/23/12 10:00	EN ROUTE VIA CHARTER FLIGHT	Brian Lubert	NWDE	8/23/12 11:00 am	
Brian Lubert	8/23/12 4:00pm	HAND	Kristie Reilly	TA Hon	8/23/12 16:00	3.2°C intact wet ice
	/		Nicole Riley / Nicole Riley	TA-SEA	08/25/12 0850	

Comments:
B3082212 IN A MIS/ICS SAMPLE IS SUBMITTED FOR LAB PREPARATION COMPRISED OF 30 ALIQUOTS

Please check one:
☐ Dispose by lab
☐ Return to client
☐ Archive

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COC REV 04/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

9/7/2012

34634

Subcontract Order - TestAmerica Honolulu (HVH0085)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub HON HVH0085**

SENDING LABORATORY:

TestAmerica Honolulu
99-193 Aiea Heights Drive, Suite 121
Aiea, HI 96701
Phone: 808-486-5227
Fax: 808-486-2456
Project Manager: Kristie Reilly
Client: TestAmerica Seattle

RECEIVING LABORATORY:

TestAmerica Seattle
5755 8th Street East
Tacoma,, WA 98424
Phone :(253) 922-2310
Fax: 253
Project Location: Washington
Receipt Temperature:_____°C Ice: Y / N

Include the following to Terri: Receipt Checklist, MI prep Bench Sheet, Client COC+Documents, SubCOC, WO Ack.

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: HVH0085-01 (B3082212 - Solid/Soil)			Sampled: 08/22/12 09:58			
Incremental Subsample Pass-through	Hr	08/30/12	10/21/12 10:58	$0.00	0%	
Containers Supplied:						
Incremental Sub-sample (analyze entire content) (B)						

Cooler/TB Dig/IR cor 6.0 unc 5.9
Cooler Dsc Lgt/Wet @ Lab
Wet/Packs Packing Cardboard
WO Fed Ex Sat

Released By	Date/Time	Received By	Date/Time
Kristi Reilly	8/24/12 13:00	Anita Riley	08/25/2012 0850

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34634-1

Login Number: 34634

List Source: TestAmerica Seattle

List Number: 1

Creator: Riley, Nicole

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-34431-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
1201 3rd Avenue
Suite #330
Seattle, Washington 98101

Attn: Brent Miller

Kristine D. Allen

Authorized for release by:
8/29/2012 2:20:50 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Job ID: 580-34431-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The sample was received on 8/11/2012 8:35 AM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.3º C.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Client Sample ID: T1080912

Date Collected: 08/09/12 11:45
Date Received: 08/11/12 08:35

Lab Sample ID: 580-34431-1

Matrix: Waste

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.15	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1221	ND		0.52	0.38	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1232	ND		0.52	0.33	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1242	ND		0.47	0.099	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1248	ND		0.47	0.14	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1254	ND		0.47	0.099	mg/Kg		08/14/12 08:43	08/14/12 11:37	1
PCB-1260	ND		0.47	0.14	mg/Kg		08/14/12 08:43	08/14/12 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*45 - 135*	*08/14/12 08:43*	*08/14/12 11:37*	*1*
DCB Decachlorobiphenyl	*96*		*50 - 140*	*08/14/12 08:43*	*08/14/12 11:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.21	mg/Kg		08/14/12 10:50	08/15/12 12:35	1
Cadmium	ND		0.33	0.13	mg/Kg		08/14/12 10:50	08/15/12 12:35	1
Chromium	ND		0.86	0.26	mg/Kg		08/14/12 10:50	08/15/12 12:35	1
Lead	**0.23**	**J**	1.0	0.10	mg/Kg		08/14/12 10:50	08/15/12 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>212**				Degrees F			08/20/12 18:04	1
Halogens, Extractable Organic	ND		200	51	mg/Kg		08/29/12 08:18	08/29/12 10:04	1

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-117596/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117568 — **Prep Batch: 117596**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.16	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1221	ND		0.55	0.40	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1232	ND		0.55	0.35	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1242	ND		0.50	0.11	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1248	ND		0.50	0.15	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1254	ND		0.50	0.11	mg/Kg		08/14/12 08:43	08/14/12 10:52	1
PCB-1260	ND		0.50	0.15	mg/Kg		08/14/12 08:43	08/14/12 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*45 - 135*	*08/14/12 08:43*	*08/14/12 10:52*	*1*
DCB Decachlorobiphenyl	*99*		*50 - 140*	*08/14/12 08:43*	*08/14/12 10:52*	*1*

Lab Sample ID: LCS 580-117596/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117568 — **Prep Batch: 117596**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.71		mg/Kg		94	40 - 140		
PCB-1260			5.00	5.02		mg/Kg		100	60 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*45 - 135*
DCB Decachlorobiphenyl	*101*		*50 - 140*

Lab Sample ID: LCSD 580-117596/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117568 — **Prep Batch: 117596**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	4.84		mg/Kg		97	40 - 140	3	20
PCB-1260			5.00	5.22		mg/Kg		104	60 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*45 - 135*
DCB Decachlorobiphenyl	*104*		*50 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-117620/11-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117738 — **Prep Batch: 117620**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	0.32	mg/Kg		08/14/12 10:50	08/15/12 11:00	1
Cadmium	ND		0.50	0.20	mg/Kg		08/14/12 10:50	08/15/12 11:00	1
Chromium	ND		1.3	0.39	mg/Kg		08/14/12 10:50	08/15/12 11:00	1
Lead	ND		1.5	0.15	mg/Kg		08/14/12 10:50	08/15/12 11:00	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-117620/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117738 — **Prep Batch: 117620**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	196		mg/Kg		98	80 - 120
Cadmium	5.00	5.00		mg/Kg		100	80 - 120
Chromium	20.0	20.4		mg/Kg		102	80 - 120
Lead	50.0	49.3		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-117620/13-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 117738 — **Prep Batch: 117620**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	200	196		mg/Kg		98	80 - 120	0	20
Cadmium	5.00	5.07		mg/Kg		101	80 - 120	1	20
Chromium	20.0	20.6		mg/Kg		103	80 - 120	1	20
Lead	50.0	50.0		mg/Kg		100	80 - 120	1	20

Method: 1020A - Ignitability, Setaflash Closed-Cup Method

Lab Sample ID: 580-34431-1 DU — **Client Sample ID: T1080912**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 118093

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>212		>212		Degrees F		NC	20

Method: 9023 - Organic Halides, Extractable (EOX)

Lab Sample ID: MB 240-56137/28-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 56167 — **Prep Batch: 56137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	ND		200	51	mg/Kg		08/29/12 09:21	08/29/12 14:49	1

Lab Sample ID: LCS 240-56137/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 56167 — **Prep Batch: 56137**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Extractable Organic	1000	1010		mg/Kg		101	75 - 125

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Client Sample ID: T1080912

Lab Sample ID: 580-34431-1

Date Collected: 08/09/12 11:45

Matrix: Waste

Date Received: 08/11/12 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3580A			117596	08/14/12 08:43	EK	TAL SEA
Total/NA	Analysis	8082		1	117568	08/14/12 11:37	EK	TAL SEA
Total/NA	Prep	3050B			117620	08/14/12 10:50	PAB	TAL SEA
Total/NA	Analysis	6010B		1	117738	08/15/12 12:35	HM	TAL SEA
Total/NA	Prep	9023			56137	08/29/12 08:18	TH	TAL NC
Total/NA	Analysis	9023		1	56167	08/29/12 10:04	TH	TAL NC
Total/NA	Analysis	1020A		1	118093	08/20/12 18:04	AM	TAL SEA

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
Kentucky	State Program	4	58	11-16-12
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-12
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-12
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-12
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-12

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34431-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34431-1	T1080912	Waste	08/09/12 11:45	08/11/12 08:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HUH0050 KR 8/10/12
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: BRENT MILLER
Company name: GEOSYNTEC
Address: 1201 THIRD AVE, SUITE 330
City: SEATTLE State: WA ZIP: 98101
Phone: 406-209-1905 Fax:
Sampler: CT/MA # samples in shipment: 1

Project identification
Job name: PNG0515 - MIDWAY
Job number:
P.O. Number:
Contact email address:
Date Results Needed:

Indicate analyses requested: ARSENIC, CADMIUM, CHROMIUM, LEAD, FLASH POINT, TOTAL HALOGENS, PCBS

34431
SEE ENCLOSED 40CFR 279.11

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Time	No. of containers	ARSENIC	CADMIUM	CHROMIUM	LEAD	FLASH POINT	TOTAL HALOGENS	PCBS				Laboratory ID no.
1	T10880912		✓								✓	✓		080912	1145	1	✓	✓	✓	✓	✓	✓	✓				~~HUH0050-01~~ KR 8/10/12
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Cooler/TB Dig/IR cor 5.3 unc 5.1
Cooler Dsc Sm Blu/wht @ Lab
Wet/Packs Packing bubble
w/ice + wet signed/dated FedEx Sat.

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
C. TIRRELL	08/09/12 / 1150	EN ROUTE UPS		TA	8/10/12 / 930	Cust Seals Broken 232
	/				/	Custody Seals Intact
	8/10/12 / 1430	Fedex	Nicole Riley	TA-SEA	08/11/2012 / 0835	

Comments:

Please check one:
- ❑ Dispose by lab
- ❑ Return to client
- ❑ Archive

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COC REV 04/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

Page ____ of ____

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34431-1

Login Number: 34431

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	split to sub EOX
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34431-1

Login Number: 34431
List Number: 1
Creator: Ferrel, Matthew

List Source: TestAmerica Canton
List Creation: 08/28/12 02:40 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-34430-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
1201 3rd Avenue
Suite #330
Seattle, Washington 98101

Attn: Brent Miller

Kristine D. Allen

Authorized for release by:
8/24/2012 3:01:17 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Job ID: 580-34430-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The sample was received on 8/11/2012 8:35 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3º C.

It was noted that the sample may have picked up some moisture during shipping. The samples arrived with condensation inside the zip lock bag. The sample labels were wet. The samples also appeared to be wet.

GC/MS Semi VOA - Method(s) 8270C SIM
The method blank for prep batch 118363 contained Pyrene at a level that was above the method detection limit but below the reporting limit. The value should be considered as an estimate, and has been "J" flagged. The associated sample results has been "B" flagged.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Client Sample ID: B2080912

Date Collected: 08/09/12 08:53
Date Received: 08/13/12 08:35

Lab Sample ID: 580-34430-1

Matrix: Solid

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.5	0.59	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
2-Methylnaphthalene	ND		1.5	0.59	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
1-Methylnaphthalene	ND		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Acenaphthylene	**1.2**	**J**	1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Acenaphthene	ND		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Fluorene	ND		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Phenanthrene	**5.2**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Anthracene	**0.97**	**J**	1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Fluoranthene	**14**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Pyrene	**14**	**B**	1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Benzo[a]anthracene	**6.5**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Chrysene	**9.8**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Benzo[b]fluoranthene	**11**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Benzo[k]fluoranthene	**4.1**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Benzo[a]pyrene	**7.8**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Indeno[1,2,3-cd]pyrene	**7.4**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Dibenz(a,h)anthracene	**1.5**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1
Benzo[g,h,i]perylene	**5.7**		1.5	0.44	ug/Kg		08/23/12 11:13	08/24/12 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*42 - 151*	*08/23/12 11:13*	*08/24/12 11:13*	*1*

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.6	0.37	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
alpha-BHC	ND		1.6	0.46	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
beta-BHC	ND		1.6	0.53	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
delta-BHC	ND		1.6	0.24	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
gamma-BHC (Lindane)	ND		1.6	0.49	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
4,4'-DDD	**3.5**		3.3	0.24	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
4,4'-DDE	**530**		3.3	0.23	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
4,4'-DDT	**100**		3.3	0.25	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Dieldrin	ND		3.3	0.19	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endosulfan I	ND		1.6	0.17	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endosulfan II	**0.97**	**J P**	3.3	0.28	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endosulfan sulfate	ND		3.3	0.30	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endrin	ND		3.3	0.27	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endrin aldehyde	ND		3.3	0.32	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Heptachlor	ND		3.3	0.76	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Heptachlor epoxide	ND		1.6	0.0049	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Methoxychlor	ND		16	0.42	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Endrin ketone	ND		3.3	0.42	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
Toxaphene	ND		160	37	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
alpha-Chlordane	**3.5**	**p**	1.6	0.22	ug/Kg		08/14/12 10:30	08/23/12 13:00	5
gamma-Chlordane	**2.4**	**p**	1.6	0.22	ug/Kg		08/14/12 10:30	08/23/12 13:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*49 - 123*	*08/14/12 10:30*	*08/23/12 13:00*	*5*
DCB Decachlorobiphenyl	*91*		*40 - 158*	*08/14/12 10:30*	*08/23/12 13:00*	*5*

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Client Sample ID: B2080912

Date Collected: 08/09/12 08:53
Date Received: 08/13/12 08:35

Lab Sample ID: 580-34430-1

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0034	0.0011	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1221	ND		0.0037	0.0027	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1232	ND		0.0037	0.0024	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1242	ND		0.0034	0.00071	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1248	ND		0.0034	0.0010	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1254	ND		0.0034	0.00071	mg/Kg		08/23/12 10:27	08/24/12 10:05	1
PCB-1260	ND		0.0034	0.0010	mg/Kg		08/23/12 10:27	08/24/12 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 135*	*08/23/12 10:27*	*08/24/12 10:05*	*1*
DCB Decachlorobiphenyl	*81*		*50 - 140*	*08/23/12 10:27*	*08/24/12 10:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**28**		3.0	0.30	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Cadmium	ND		0.99	0.39	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Barium	**10**		0.99	0.20	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Silver	ND		2.0	1.1	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Arsenic	**0.71**	**J**	5.9	0.63	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Selenium	ND		9.9	0.39	mg/Kg		08/15/12 09:55	08/15/12 15:26	10
Chromium	**4.8**		2.6	0.77	mg/Kg		08/15/12 09:55	08/15/12 15:26	10

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.020	0.0062	mg/Kg		08/15/12 12:15	08/15/12 15:12	10

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-118363/1-A
Matrix: Solid
Analysis Batch: 118432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0	2.0	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
2-Methylnaphthalene	ND		5.0	2.0	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
1-Methylnaphthalene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Acenaphthylene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Acenaphthene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Fluorene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Phenanthrene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Anthracene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Fluoranthene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Pyrene	2.60	J	5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Benzo[a]anthracene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Chrysene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Benzo[b]fluoranthene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Benzo[k]fluoranthene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Benzo[a]pyrene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Dibenz(a,h)anthracene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1
Benzo[g,h,i]perylene	ND		5.0	1.5	ug/Kg		08/23/12 11:13	08/24/12 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*85*		*42 - 151*	*08/23/12 11:13*	*08/24/12 10:28*	*1*

Lab Sample ID: LCS 580-118363/2-A
Matrix: Solid
Analysis Batch: 118432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1010	957		ug/Kg		95	64 - 129
2-Methylnaphthalene	1000	972		ug/Kg		97	65 - 125
1-Methylnaphthalene	1010	1020		ug/Kg		101	48 - 148
Acenaphthylene	999	1050		ug/Kg		105	69 - 129
Acenaphthene	1000	938		ug/Kg		94	65 - 130
Fluorene	1010	971		ug/Kg		96	68 - 128
Phenanthrene	1010	950		ug/Kg		94	65 - 125
Anthracene	999	1020		ug/Kg		102	73 - 123
Fluoranthene	1000	962		ug/Kg		96	61 - 121
Pyrene	999	933		ug/Kg		93	54 - 134
Benzo[a]anthracene	1000	1050		ug/Kg		105	64 - 124
Chrysene	964	932		ug/Kg		97	71 - 126
Benzo[b]fluoranthene	1000	960		ug/Kg		96	66 - 136
Benzo[k]fluoranthene	999	944		ug/Kg		95	63 - 143
Benzo[a]pyrene	1000	973		ug/Kg		97	68 - 128
Indeno[1,2,3-cd]pyrene	1010	872		ug/Kg		87	59 - 139
Dibenz(a,h)anthracene	1000	905		ug/Kg		91	57 - 142
Benzo[g,h,i]perylene	1000	782		ug/Kg		78	57 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*92*		*42 - 151*

Method: 8270C SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 580-34430-1 MS
Matrix: Solid
Analysis Batch: 118432

Client Sample ID: B2080912
Prep Type: Total/NA
Prep Batch: 118363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		337	304		ug/Kg		90	64 - 129
2-Methylnaphthalene	ND		336	311		ug/Kg		93	65 - 125
1-Methylnaphthalene	ND		337	321		ug/Kg		95	48 - 148
Acenaphthylene	1.2	J	335	338		ug/Kg		101	69 - 129
Acenaphthene	ND		335	302		ug/Kg		90	65 - 130
Fluorene	ND		338	312		ug/Kg		92	68 - 128
Phenanthrene	5.2		337	302		ug/Kg		88	65 - 125
Anthracene	0.97	J	335	326		ug/Kg		97	73 - 123
Fluoranthene	14		335	317		ug/Kg		91	61 - 121
Pyrene	14	B	335	313		ug/Kg		89	54 - 134
Benzo[a]anthracene	6.5		336	341		ug/Kg		100	64 - 124
Chrysene	9.8		323	299		ug/Kg		90	71 - 126
Benzo[b]fluoranthene	11		335	321		ug/Kg		92	66 - 136
Benzo[k]fluoranthene	4.1		335	302		ug/Kg		89	63 - 143
Benzo[a]pyrene	7.8		335	314		ug/Kg		91	68 - 128
Indeno[1,2,3-cd]pyrene	7.4		337	267		ug/Kg		77	59 - 139
Dibenz(a,h)anthracene	1.5		335	260		ug/Kg		77	57 - 142
Benzo[g,h,i]perylene	5.7		335	225		ug/Kg		65	57 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*87*		*42 - 151*

Lab Sample ID: 580-34430-1 MSD
Matrix: Solid
Analysis Batch: 118432

Client Sample ID: B2080912
Prep Type: Total/NA
Prep Batch: 118363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		330	311		ug/Kg		94	64 - 129	2	26
2-Methylnaphthalene	ND		329	317		ug/Kg		97	65 - 125	2	27
1-Methylnaphthalene	ND		330	330		ug/Kg		100	48 - 148	3	30
Acenaphthylene	1.2	J	328	346		ug/Kg		105	69 - 129	2	28
Acenaphthene	ND		328	307		ug/Kg		94	65 - 130	2	27
Fluorene	ND		331	315		ug/Kg		95	68 - 128	1	31
Phenanthrene	5.2		330	315		ug/Kg		94	65 - 125	4	28
Anthracene	0.97	J	328	335		ug/Kg		102	73 - 123	3	27
Fluoranthene	14		328	341		ug/Kg		100	61 - 121	7	36
Pyrene	14	B	328	335		ug/Kg		98	54 - 134	7	31
Benzo[a]anthracene	6.5		329	365		ug/Kg		109	64 - 124	7	27
Chrysene	9.8		316	320		ug/Kg		98	71 - 126	7	26
Benzo[b]fluoranthene	11		328	335		ug/Kg		99	66 - 136	4	31
Benzo[k]fluoranthene	4.1		328	304		ug/Kg		91	63 - 143	1	31
Benzo[a]pyrene	7.8		328	336		ug/Kg		100	68 - 128	7	30
Indeno[1,2,3-cd]pyrene	7.4		330	323		ug/Kg		95	59 - 139	19	29
Dibenz(a,h)anthracene	1.5		328	307		ug/Kg		93	57 - 142	16	30
Benzo[g,h,i]perylene	5.7		328	273		ug/Kg		82	57 - 142	20	28

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*95*		*42 - 151*

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-117608/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118209 — **Prep Batch: 117608**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.33	0.074	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
alpha-BHC	ND		0.33	0.092	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
beta-BHC	ND		0.33	0.11	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
delta-BHC	ND		0.33	0.049	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
gamma-BHC (Lindane)	ND		0.33	0.10	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
4,4'-DDD	ND		0.67	0.049	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
4,4'-DDE	ND		0.67	0.047	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
4,4'-DDT	ND		0.67	0.051	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Dieldrin	ND		0.67	0.039	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endosulfan I	ND		0.33	0.034	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endosulfan II	ND		0.67	0.057	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endosulfan sulfate	ND		0.67	0.062	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endrin	ND		0.67	0.054	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endrin aldehyde	ND		0.67	0.066	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Heptachlor	ND		0.67	0.15	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Heptachlor epoxide	ND		0.33	0.0010	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Methoxychlor	ND		3.3	0.086	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Endrin ketone	ND		0.67	0.086	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
Toxaphene	ND		33	7.6	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
alpha-Chlordane	ND		0.33	0.045	ug/Kg		08/14/12 10:06	08/22/12 13:07	1
gamma-Chlordane	ND		0.33	0.045	ug/Kg		08/14/12 10:06	08/22/12 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*49 - 123*	*08/14/12 10:06*	*08/22/12 13:07*	*1*
DCB Decachlorobiphenyl	*102*		*40 - 158*	*08/14/12 10:06*	*08/22/12 13:07*	*1*

Lab Sample ID: LCS 580-117608/11-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118209 — **Prep Batch: 117608**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Toxaphene			167	173		ug/Kg		104	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*49 - 123*
DCB Decachlorobiphenyl	*105*		*40 - 158*

Lab Sample ID: LCS 580-117608/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118209 — **Prep Batch: 117608**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*49 - 123*
DCB Decachlorobiphenyl	*102*		*40 - 158*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-117608/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118209 — **Prep Batch: 117608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	6.67	6.06		ug/Kg		91	53 - 126
alpha-BHC	6.67	5.79		ug/Kg		87	41 - 128
beta-BHC	6.67	6.14		ug/Kg		92	48 - 121
delta-BHC	6.67	5.26		ug/Kg		79	22 - 153
gamma-BHC (Lindane)	6.67	6.12		ug/Kg		92	50 - 127
4,4'-DDD	6.67	6.54		ug/Kg		98	44 - 141
4,4'-DDE	6.67	6.44		ug/Kg		97	47 - 140
4,4'-DDT	6.67	7.10		ug/Kg		107	34 - 159
Dieldrin	6.67	6.45		ug/Kg		97	53 - 134
Endosulfan I	6.67	6.08		ug/Kg		91	52 - 122
Endosulfan II	6.67	6.16		ug/Kg		92	53 - 132
Endosulfan sulfate	6.67	6.04		ug/Kg		91	42 - 128
Endrin	6.67	7.04		ug/Kg		106	46 - 138
Endrin aldehyde	6.67	5.37		ug/Kg		81	12 - 179
Heptachlor	6.67	6.90		ug/Kg		103	50 - 130
Heptachlor epoxide	6.67	6.12		ug/Kg		92	49 - 123
Methoxychlor	6.67	7.97		ug/Kg		119	46 - 154
Endrin ketone	6.67	6.77		ug/Kg		102	45 - 127
alpha-Chlordane	6.67	6.46		ug/Kg		97	46 - 118
gamma-Chlordane	6.67	6.18		ug/Kg		93	49 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*49 - 123*
DCB Decachlorobiphenyl	*103*		*40 - 158*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-118352/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118421 — **Prep Batch: 118352**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0033	0.0011	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1221	ND		0.0037	0.0027	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1232	ND		0.0037	0.0023	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1242	ND		0.0033	0.00070	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1248	ND		0.0033	0.0010	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1254	ND		0.0033	0.00070	mg/Kg		08/23/12 10:27	08/24/12 09:41	1
PCB-1260	ND		0.0033	0.0010	mg/Kg		08/23/12 10:27	08/24/12 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 135*	*08/23/12 10:27*	*08/24/12 09:41*	*1*
DCB Decachlorobiphenyl	*84*		*50 - 140*	*08/23/12 10:27*	*08/24/12 09:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 580-118352/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118421 — **Prep Batch: 118352**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.0333	0.0279		mg/Kg		84	40 - 140
PCB-1260	0.0333	0.0282		mg/Kg		85	60 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*45 - 135*
DCB Decachlorobiphenyl	*97*		*50 - 140*

Lab Sample ID: 580-34430-1 MS — **Client Sample ID: B2080912**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118421 — **Prep Batch: 118352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		0.0336	0.0313		mg/Kg		93	40 - 140
PCB-1260	ND		0.0336	0.0335		mg/Kg		100	60 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*45 - 135*
DCB Decachlorobiphenyl	*87*		*50 - 140*

Lab Sample ID: 580-34430-1 MSD — **Client Sample ID: B2080912**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 118421 — **Prep Batch: 118352**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.0334	0.0311		mg/Kg		93	40 - 140	1	20
PCB-1260	ND		0.0334	0.0303		mg/Kg		91	60 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*45 - 135*
DCB Decachlorobiphenyl	*85*		*50 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-117712/15-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117752 — **Prep Batch: 117712**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.15	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Cadmium	ND		0.50	0.20	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Barium	ND		0.50	0.10	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Silver	ND		1.0	0.56	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Arsenic	ND		3.0	0.32	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Selenium	ND		5.0	0.20	mg/Kg		08/15/12 09:55	08/15/12 13:24	1
Chromium	ND		1.3	0.39	mg/Kg		08/15/12 09:55	08/15/12 13:24	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-117712/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117752 — **Prep Batch: 117712**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	49.3		mg/Kg		99	80 - 120
Cadmium	5.00	5.03		mg/Kg		101	80 - 120
Barium	200	204		mg/Kg		102	80 - 120
Silver	30.0	28.7		mg/Kg		96	75 - 120
Arsenic	200	193		mg/Kg		97	80 - 120
Selenium	200	187		mg/Kg		94	80 - 120
Chromium	20.0	20.5		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 580-117712/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117752 — **Prep Batch: 117712**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	50.9		mg/Kg		102	80 - 120	3	20
Cadmium	5.00	5.20		mg/Kg		104	80 - 120	3	20
Barium	200	209		mg/Kg		105	80 - 120	3	20
Silver	30.0	29.1		mg/Kg		97	75 - 120	1	20
Arsenic	200	198		mg/Kg		99	80 - 120	2	20
Selenium	200	191		mg/Kg		96	80 - 120	2	20
Chromium	20.0	21.0		mg/Kg		105	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-117723/15-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117754 — **Prep Batch: 117723**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0063	mg/Kg		08/15/12 12:15	08/15/12 14:31	10

Lab Sample ID: LCS 580-117723/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117754 — **Prep Batch: 117723**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.100	0.102		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 580-117723/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117754 — **Prep Batch: 117723**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.100	0.106		mg/Kg		106	80 - 120	3	20

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Client Sample ID: B2080912

Lab Sample ID: 580-34430-1

Date Collected: 08/09/12 08:53

Matrix: Solid

Date Received: 08/13/12 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			118363	08/23/12 11:13	AA	TAL SEA
Total/NA	Analysis	8270C SIM		1	118432	08/24/12 11:13	AP	TAL SEA
Total/NA	Prep	3550B	DL		117608	08/14/12 10:30	AA	TAL SEA
Total/NA	Analysis	8081A	DL	5	118361	08/23/12 13:00	KKW	TAL SEA
Total/NA	Prep	3550B			118352	08/23/12 10:27	AA	TAL SEA
Total/NA	Analysis	8082		1	118421	08/24/12 10:05	SH	TAL SEA
Total/NA	Prep	3050B			117712	08/15/12 09:55	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117752	08/15/12 15:26	HM	TAL SEA
Total/NA	Prep	7471A			117723	08/15/12 12:15	PAB	TAL SEA
Total/NA	Analysis	7471A		10	117754	08/15/12 15:12	PAB	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34430-1	B2080912	Solid	08/09/12 08:53	08/13/12 08:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. ~~HU1005O~~ KR 8/10/12
LOCATION ~~HU1005T~~ KR 8/10/12
CONTAINERS

Chain of Custody / Analysis Request Form

34430

Report to:	Project identification	
BRENT MILLER	Job name: PNG0515-MIDWAY	
Company name: GEOSYNTEC CONSULTANTS	Job number:	
Address: 1201 3RD AVE, SUITE 330	P.O. Number:	
City: SEATTLE State: WA ZIP: 98101	Contact email address: BMILLER@GEOSYNTEC.COM	Date Results Needed: 5-DAY RUSH
Phone: 206-496-1450 Fax:		
Sampler: CT # samples in shipment: 1		

Indicate analyses requested

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling: Date	Time	No. of containers	LEAD TOTAL SW6010B/ICS/MIS	METALS, RCRA	PCBs	PAHs	PESTICIDES						Laboratory ID no.
1	B2080912				✓									8/9/12	0853	1	✓	✓	✓	✓	✓						~~HU1005O-01~~ KR 8/10/12
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
C. TYRRELL	08/09/12 1130	ENROUTE VIA CHARTER FLIGHT	[illegible]	TA Hon	8/10/12 930	[illegible]
[illegible]	8/10/12 1430	Fedex	Rachel Miller	TA SEA	8/10/12	Custody seal on sample intact
	/				8/11/12 0835	

Comments: B2080912 IS AN MIS/ICS SAMPLE & IS SUBMITTED FOR LAB PREPARATION - COMPRISED OF 32 ALIQUOTS

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

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COC REV 04/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

8/24/2012

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34430-1

Login Number: 34430

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-34220-1
Client Project/Site: PNG0515 - Midway

For:
Geosyntec Consultants, Inc.
1700 Seventh Ave
Suite 2100
Seattle, Washington 98101

Attn: Brent Miller

Kristine D. Allen

Authorized for release by:
8/15/2012 5:10:42 PM

Kristine Allen
Project Manager I
kristine.allen@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Job ID: 580-34220-1

Laboratory: TestAmerica Seattle

Narrative

Receipt
The samples were received on 7/31/2012 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

All samples went through the TA-Honolulu lab thus the container labels reflect the Honolulu lab number: HVG0073; however, on the client's COC, the Hawaii lab numbers are written next to the client's sample IDs so that the samples could be identified.

All the samples with an ID of DUP do not have sample collection times filled in on the COC. The time of the sample preceding the two DUP samples listed on the COC has been used for log-in as the two DUP samples are assumed to be duplicates of the sample preceding it.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 356

Date Collected: 07/25/12 13:00
Date Received: 07/31/12 09:55

Lab Sample ID: 580-34220-1

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 18:29	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-9

Lab Sample ID: 580-34220-2

Date Collected: 07/25/12 13:00

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	89		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 18:42	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-10

Lab Sample ID: 580-34220-3

Date Collected: 07/25/12 13:00

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	94		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 18:48	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 349

Lab Sample ID: 580-34220-4

Date Collected: 07/24/12 13:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	59		3.0	0.30	mg/Kg		08/13/12 17:04	08/14/12 18:55	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-7

Lab Sample ID: 580-34220-5

Date Collected: 07/24/12 13:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	64		2.8	0.28	mg/Kg		08/13/12 17:04	08/14/12 19:01	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-8

Lab Sample ID: 580-34220-6

Date Collected: 07/24/12 13:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	49		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 19:19	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: FB-072512

Lab Sample ID: 580-34220-7

Date Collected: 07/25/12 15:25

Matrix: Water

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0021	mg/L		08/10/12 13:40	08/14/12 13:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 357

Lab Sample ID: 580-34220-8

Date Collected: 07/18/12 10:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	97		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 19:26	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-3

Lab Sample ID: 580-34220-9

Date Collected: 07/18/12 10:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	81		2.8	0.28	mg/Kg		08/13/12 17:04	08/14/12 19:32	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-4

Lab Sample ID: 580-34220-10

Date Collected: 07/18/12 10:30

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		3.0	0.30	mg/Kg		08/13/12 17:04	08/14/12 19:38	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 353

Lab Sample ID: 580-34220-11

Date Collected: 07/16/12 12:45

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	71		2.8	0.28	mg/Kg		08/13/12 17:04	08/14/12 19:45	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-1

Lab Sample ID: 580-34220-12

Date Collected: 07/16/12 12:45

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	69		2.9	0.29	mg/Kg		08/13/12 17:04	08/14/12 19:51	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-2

Lab Sample ID: 580-34220-13

Date Collected: 07/16/12 12:45

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	72		2.7	0.27	mg/Kg		08/13/12 17:04	08/14/12 19:57	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 363

Lab Sample ID: 580-34220-14

Date Collected: 07/21/12 12:50

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	62		3.0	0.30	mg/Kg		08/13/12 17:04	08/14/12 20:04	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-5

Lab Sample ID: 580-34220-15

Date Collected: 07/21/12 12:50

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		3.0	0.30	mg/Kg		08/13/12 17:04	08/14/12 20:10	10

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-6

Lab Sample ID: 580-34220-16

Date Collected: 07/21/12 12:50

Matrix: Solid

Date Received: 07/31/12 09:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	81		2.8	0.28	mg/Kg		08/13/12 17:04	08/14/12 20:16	10

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-117559/16-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117682 — **Prep Batch: 117559**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.15	mg/Kg		08/13/12 17:04	08/14/12 18:05	1

Lab Sample ID: LCS 580-117559/17-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117682 — **Prep Batch: 117559**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-117559/18-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117682 — **Prep Batch: 117559**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	50.4		mg/Kg		101	80 - 120	1	20

Lab Sample ID: MB 580-117385/16-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 117654 — **Prep Batch: 117385**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0021	mg/L		08/10/12 13:40	08/14/12 11:35	1

Lab Sample ID: LCS 580-117385/17-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 117654 — **Prep Batch: 117385**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-117385/18-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 117654 — **Prep Batch: 117385**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.02		mg/L		102	80 - 120	1	20

Lab Sample ID: LCSSRM 580-117385/19-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 117654 — **Prep Batch: 117385**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.05		mg/L		105	80 - 120

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: 356 — Lab Sample ID: 580-34220-1

Date Collected: 07/25/12 13:00 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 18:29	HM	TAL SEA

Client Sample ID: DUP-9 — Lab Sample ID: 580-34220-2

Date Collected: 07/25/12 13:00 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 18:42	HM	TAL SEA

Client Sample ID: DUP-10 — Lab Sample ID: 580-34220-3

Date Collected: 07/25/12 13:00 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 18:48	HM	TAL SEA

Client Sample ID: 349 — Lab Sample ID: 580-34220-4

Date Collected: 07/24/12 13:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 18:55	HM	TAL SEA

Client Sample ID: DUP-7 — Lab Sample ID: 580-34220-5

Date Collected: 07/24/12 13:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:01	HM	TAL SEA

Client Sample ID: DUP-8 — Lab Sample ID: 580-34220-6

Date Collected: 07/24/12 13:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:19	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: FB-072512 — Lab Sample ID: 580-34220-7

Date Collected: 07/25/12 15:25 — **Matrix: Water**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117385	08/10/12 13:40	PAB	TAL SEA
Total Recoverable	Analysis	6010B		1	117654	08/14/12 13:20	HM	TAL SEA

Client Sample ID: 357 — Lab Sample ID: 580-34220-8

Date Collected: 07/18/12 10:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:26	HM	TAL SEA

Client Sample ID: DUP-3 — Lab Sample ID: 580-34220-9

Date Collected: 07/18/12 10:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:32	HM	TAL SEA

Client Sample ID: DUP-4 — Lab Sample ID: 580-34220-10

Date Collected: 07/18/12 10:30 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:38	HM	TAL SEA

Client Sample ID: 353 — Lab Sample ID: 580-34220-11

Date Collected: 07/16/12 12:45 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:45	HM	TAL SEA

Client Sample ID: DUP-1 — Lab Sample ID: 580-34220-12

Date Collected: 07/16/12 12:45 — **Matrix: Solid**
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:51	HM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Client Sample ID: DUP-2

Lab Sample ID: 580-34220-13

Date Collected: 07/16/12 12:45
Matrix: Solid
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 19:57	HM	TAL SEA

Client Sample ID: 363

Lab Sample ID: 580-34220-14

Date Collected: 07/21/12 12:50
Matrix: Solid
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 20:04	HM	TAL SEA

Client Sample ID: DUP-5

Lab Sample ID: 580-34220-15

Date Collected: 07/21/12 12:50
Matrix: Solid
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 20:10	HM	TAL SEA

Client Sample ID: DUP-6

Lab Sample ID: 580-34220-16

Date Collected: 07/21/12 12:50
Matrix: Solid
Date Received: 07/31/12 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			117559	08/13/12 17:04	PAB	TAL SEA
Total/NA	Analysis	6010B		10	117682	08/14/12 20:16	HM	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-13
California	NELAC	9	1115CA	01-31-13
L-A-B	DoD ELAP		L2236	01-19-13
L-A-B	ISO/IEC 17025		L2236	01-19-13
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAC	10	WA100007	11-06-12
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-13

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: PNG0515 - Midway

TestAmerica Job ID: 580-34220-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-34220-1	356	Solid	07/25/12 13:00	07/31/12 09:55
580-34220-2	DUP-9	Solid	07/25/12 13:00	07/31/12 09:55
580-34220-3	DUP-10	Solid	07/25/12 13:00	07/31/12 09:55
580-34220-4	349	Solid	07/24/12 13:30	07/31/12 09:55
580-34220-5	DUP-7	Solid	07/24/12 13:30	07/31/12 09:55
580-34220-6	DUP-8	Solid	07/24/12 13:30	07/31/12 09:55
580-34220-7	FB-072512	Water	07/25/12 15:25	07/31/12 09:55
580-34220-8	357	Solid	07/18/12 10:30	07/31/12 09:55
580-34220-9	DUP-3	Solid	07/18/12 10:30	07/31/12 09:55
580-34220-10	DUP-4	Solid	07/18/12 10:30	07/31/12 09:55
580-34220-11	353	Solid	07/16/12 12:45	07/31/12 09:55
580-34220-12	DUP-1	Solid	07/16/12 12:45	07/31/12 09:55
580-34220-13	DUP-2	Solid	07/16/12 12:45	07/31/12 09:55
580-34220-14	363	Solid	07/21/12 12:50	07/31/12 09:55
580-34220-15	DUP-5	Solid	07/21/12 12:50	07/31/12 09:55
580-34220-16	DUP-6	Solid	07/21/12 12:50	07/31/12 09:55

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
99-193 Aiea Heights Drive Suite 121 • Aiea, HI 96701-3900
808-486-LABS (5227) • Fax 808-486-2456

LABORATORY USE ONLY
LAB JOB NO. HU60073
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to: Brent Miller	Project identification
Company name: Geosyntec Consultants	Job name: PNG 0515 - Midway
Address: 1201 3rd Ave, Suite 330	Job number: 34220
City: Seattle State: WA ZIP: 98101	P.O. Number:
Phone: 206 496-1450 Fax:	Contact email address: bmiller@geosyntec.com Date Results Needed:
Sampler: M. Schott # samples in shipment: 16	

Indicate analyses requested: ICS/MIS for Lead 6010B; 6010B Lead only

	Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Time	No. of containers	ICS/MIS for Lead 6010B	6010B Lead only								Laboratory ID no.
1-	1	356				X								none	7/25/12	1300	1	X									HU60073-01
2-	2	DUP9				X									7/25/12		1	X									-02
3-	3	DUP10				X									7/25/12		1	X									-03
4-	4	349				X									7/24/12	1330	1	X									-04
5-	5	DUP7				X									7/24/12		1	X									-05
6-	6	DUP8				X									7/24/12		1	X									-06
7-	7	FB-072512								X				HNO3	7/25/12	1525	1		X								-07
8-	8	357				X								none	7/18/12	1030	1	X									-08
9-	9	DUP-3				X									7/18/12		1	X									-09
10-	10	DUP-4				X									7/18/12		1	X									-10

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Michael Schott, [signature]	7/26/12 1520		Drew Lorenz / [signature]	Northwest	7/26/12 1520	
Drew Lorenz / [signature]	7/26/12 1545	Hand	Kristie Reilly / [signature]	TA Hon	7/26/12 1545	23°c intact no ice
[signature]	7/30/12 1200	Fedex	Tom Blank	TA-Sea	7/31/12 0955	

Comments: Reference Quote # 58005495
All MIS/ICS samples are 32 increments except 363, DUP5, DUP6 is 30 increments and 349, DUP7, DUP8 is 34 increments

~~Med~~ Lg Blu/wh wet/bubb w/OGS IR=2.5/2.4

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

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COC REV 04/2008 Distribution: White - TestAmerica Yellow - TestAmerica Pink - Client

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Honolulu
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LABORATORY USE ONLY
LAB JOB NO. MU60073
LOCATION
CONTAINERS

Chain of Custody / Analysis Request Form

Report to:	Brent Miller
Company name	Geosyntec Consultants
Address	1201 3rd Ave Suite 330
City / State / ZIP	Seattle / WA / 98101
Phone	206 496-1450
Fax	—
Sampler	M. Schott
# samples in shipment	16

Project identification

Job name	PNG-0515 - Midway
Job number	34220
P.O. Number	
Contact email address	bmiller@geosyntec.com
Date Results Needed	

Indicate analyses requested: ICS/MIS for Lead Colors

Item no.	Client sample ID	COMP	GRAB	Matrix: Water	Soil	Wastewater	Drinking water	Sludge	Liquid	Solid	Oil	Other	Preservation method	Sampling Date	Time	No. of containers	ICS/MIS for Lead Colors	Laboratory ID no.
11 - 1	353				X								none	7/16/12	1245	1	X	MU60073-11
12 - 2	DUP-1				X									7/16/12		1	X	-12
13 - 3	DUP-2				X									7/16/12		1	X	-13
14 4	363				X									7/21/12	1250	1	X	-14
15 - 5	DUP-5				X									7/21/12		1	X	-15
16 - 6	DUP-6				X									7/21/12		1	X	-16
7																		
8																		
9																		
10																		

Released by (print / sign)	Date / time released	Delivery method	Received by (print / sign)	Company / Agency affiliation	Date / time received	Condition noted
Michael Schott / [signature]	7/26/12 1520		Dean Larsen / [signature]	Northwest	7/26/12 1520	
Dean Larsen / [signature]	7/26/12 1545	Hand	Kristie Reilly / [signature]	TA Hon	7/26/12 1545	23°C intact
[signature]	7/30/12 1200	Fedex	Tom B / [signature]	TA-Sea	7/31/12 0955	no ice

Comments: Reference Quote # 58005495
All MIS/ICS samples are 32 increments except 363, DUP5, DUP6 is 30 increments and 349, DUP7, DUP8 is 34 increments

Please check one:
- ☐ Dispose by lab
- ☐ Return to client
- ☐ Archive

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Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-34220-1

Login Number: 34220

List Source: TestAmerica Seattle

List Number: 1

Creator: Balles, Racheal

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	See NCM.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	See NCM.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX F
INIKI AIR MONITORING RESULTS

2012 3342

LEAD AIR SAMPLING FIELD REPORT

GLOBETECK GROUP, INC.
544 Ohohia Street, Suite #2 & #4
Honolulu, HI 96819
Phone: (808) 833-5787 Fax: (808) 833-5987

Project Name:	Midway Atoll
Site:	Bldg 356 (Transportation Bldg.)
Client Name:	Iniki
Project #:	2742 G12-2440

Collected By:	[illegible]
Collection Date:	7/10/12

ID NUMBER	DATE	PUMP NUMBER	NAME AND SS # OR SAMPLE LOCATION	CATEGORY	TIME ON	TIME OFF	TOTAL MIN.	PRE LPM	POST LPM	FINAL LPM	AIR VOLUME	CONC. ug/m3	8 HR TWA ug/m3
1022-1	7/10	1	North	UW	7:00 am	5:00 pm	600	2.0	2.0	2.0	1200	20121023059	
1022-2	7/10	2	South	DW	7:00 am	5:00 pm	600	2.0	2.0	2.0	1200	20121023060	

Categories:							
	P	PERSONAL	OA	OUTSIDE AREA	IA	INSIDE AREA
	C	CLEARANCE	LB	LOT BLANK	E	ENVIRONMENTAL

Analyzed By:	
Date Analyzed:	
Reviewed By:	
Date Reviewed:	

Relinquished by: [illegible]

Received by: [illegible]

Received By: [illegible] 10/23/12 1:15PM

INALAB, Inc.
LABORATORY DIVISION
ANALYTICAL REPORT

NVLAP LAB CODE 200655-0

Thursday, October 25, 2012

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INALAB Job No: 20123342
Your Project: GGI-2742, G12-2440, Midway Atoll (07/10/12)

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20121023059	**1022-1 North**	UNK	< 4.2	ug/m3	10/23/2012	10/25/2012
Comments	MRL = 4.2 ug/m3					
20121023060	**1022-2 South**	UNK	< 4.2	ug/m3	10/23/2012	10/25/2012
Comments	MRL = 4.2 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

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General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The samples analyses subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sampl relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of INALAB, Inc. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. For air samples, results are calculated based on the reported air volumes. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
UNK = sample submitted for this evaluation / analysis.
DUP = duplicate sample analysis of the UNK sample.
REP = replicate sample analysis which is a second preparation of the UNK sample analysis.
Tr = TRACE, i.e., the analyte of interest was, to a reasonable degree of scientific certainty present, but was BELOW the quantifiable limits of this determination (stated).
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
ND = NOT DETECTED which means the analyte, if present below our stated detection limit/ level.
RPD = Relative Percent Deviation [unk-dup]/ave(unk,dup)*100.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

DID INALAB FORENSIC DIVISION COLLECT THESE SAMPLES? No

Ms. Jennifer Hsu Liao
Laboratory Manager