Prepared for:

U.S. Fish and Wildlife Service
911 NE 11th Avenue
Portland, Oregon 97232
Attn: MaryAnn Amann

2013 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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28 February 2014

2013 Annual Report
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1.0 INTRODUCTION

NW Demolition and Environmental (NWDE) has prepared this 2013 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) (Figure 1). 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 22 August and 9 October 2013. The work was conducted in general accordance with the CERCLA Guidelines, NWDE's, Removal Action Work Plan (RAWP) dated 29 February, 2012, Geosyntec's Soil Sampling Work Plan for DU2 and DU4 dated August 2013 and the revised Health and Safety Plan (HASP) (NWDE, 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 2013 field season are provided in Appendix A. Due to its volume, Appendix A has been provided in a separate binder. Appendix B contains printed copies of a limited number of site photographs and a digital video disk (DVD) that contains electronic versions of photographs taken during the 2013 field season.

The Removal Action will be conducted over multiple years while the majority of the birds are not present on the site; 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).
- 2013 – Removal action for DU2. Including lead abatement of Buildings 259, 2403 and 2404 in DU4 (Complete).
- 2014 – Removal action for DU4.
- 2015 – Removal actions for DU5 and DU7.
- 2016 – Removal actions for DU3 and DU8.
- 2017 – Removal action for DU9.

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

3.0 ADDITONAL SOIL CHARACTERIZATION

In August 2013, the project team prepared and submitted a Work Plan to document the collection of additional soil samples from DU2 and DU4. The purpose of sampling was to provide additional analytical data for soil in DU2 and DU4 such that contaminant distribution and related removal actions (removal of soils in excess of 75 mg/kg) could be further defined.

3.1 Sample Locations and Selection Process

The locations of sampling locations for DU2 are shown on Figure 2 and the sampling locations for DU4 are shown on Figure 3. Sample locations were selected by first evaluating the historical soil analytical data using Visual Sampling Plan (VSP) software developed by the U.S. Department of Energy. VSP was used to determine where additional sample points would provide better delineation of lead in soil concentrations and reduce uncertainty in the development of contaminant distribution contours.

In conjunction with VSP, the project team also used the modeling capabilities of MVS DrillGuide© to determine the location of potential sampling points. DrillGuide© was used to statistically determine the number of additional sampling locations. DrillGuide© evaluates trends in existing data to determine the optimal location for additional sampling, focusing on areas with higher levels of uncertainty.

3.2 Sampling Procedures

Geosyntec staff completed the sampling effort during the 2013 field season (late August to early October 2013). In total, 178 samples (including duplicates) were collected and analyzed. This includes 136 soil samples from DU2 and 42 soil samples from DU4. Appendix C presents a discussion of the field procedures used to collect soil samples.

In general, soil samples were collected in the intervals between 0 to 6inches, 12 to 18inches and in most locations 24 to 30inches below ground surface (bgs). The collection of deeper samples was not possible at all locations due to auger refusal. Approximately 10 percent of the explorations were advanced to 36-inches bgs to verify the concentration of lead in deeper soils. In addition, one duplicate sample was collected and analyzed for every 20 primary samples. Soil sampling in the 0 to 6inch interval was completed using composite sampling techniques, whereby a five point composite sample was collected from a 10-foot radius of each exploration. The use of the composite sample was intended to provide a more thorough characterization of the soil in the most exposed soil profile.

All samples were submitted for laboratory analysis of lead by US Environmental Protection Agency (EPA) method 6010. Table 1 summarizes the lead in soil results for the 2013 sampling event. Laboratory analytical deliverables are presented in Appendix D. Appendix D also contains a quality assurance/quality control (QA/QC) evaluation of the field event and analytical data and a data review checklist for each of the laboratory analytical packets. Based on the data quality review, the results are valid and usable.

3.3 Results

Using the analytical results from the EE/CA, the December 2012 sampling, and the 2013 field sampling, Geosyntec utilized MVS DrillGuide© to model the reduction in spatial uncertainty of lead concentrations in shallow soil. DrillGuide© uses spatial contouring of soil contamination data to determine the volume of lead-impacted soil that is greater than 75 mg/kg.

Figures 4 and 5 illustrate the modeled extent around the structures within DU2 and DU4 that exceed the cleanup value of 75 mg/kg, respectively.

The following sections provide a brief summary of the MVS model results and revised soil volume calculations for the two DUs.

3.3.1 DU2

The removal volume for DU2, estimated by the EE/CA was 2,800 cubic yards (cy). Using the results from the 2013 field event and previous events, the revised excavation volume with a 20 percent safety factor to account for excavation slopes and mechanical limitations was 3,252 cy. Figure 6 shows the excavation limits and depth implemented during the 2013 field season.

3.3.2 DU4

The removal volume for DU4 estimated by the EE/CA was 2,000 cy. Using the results from the 2013 field event and previous events, the revised excavation volume with a 20

percent safety factor is 3,463 cy. Figure 7 shows the excavation limits and depth that will be implemented during the 2014 field season.

4.0 2013 FIELD ACTIVITIES – DU2

DU2 consists of the former marine barracks (Buildings 578 and 579). Field work in DU2 consisted of the following activities.

4.1 Asbestos Abatement from Buildings 578 and 579

NWDE contracted Iniki Enterprises Limited (Iniki) to complete the abatement of asbestos containing material (ACM) from Buildings 578 and 579. Ten working days prior to the start of work, Iniki notified the Contracting Officer of the State of Hawaii, Department of Health, Noise and Radiation Branch, EPA regional office, in accordance with 40 CFR 61, SUBPART M.

During previous site work an Industrial Hygienist (IH) performed an inspection of the asbestos materials in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations to determine the condition and friability to ensure proper removal procedures were utilized. It was determined that the transite siding on Buildings 578 and 579 was non-friable.

4.1.1 Work Area Preparation

Asbestos caution/warning signs were posted in and around the work area in accordance with 29 CFR 1926.1101, Hawaii Occupational Safety & Health (HIOSH) regulation 12-145.1 and all other federal, state, and local requirements. Warning signs were posted at all entrances to the asbestos removal work area. Signs were also posted at a distance far enough from the work area to permit a person to read the sign and take the necessary protective measures to avoid exposure.

Only personnel with appropriate personal protective equipment were allowed to enter the asbestos control zone. Workers and personnel entering the asbestos removal work area at a minimum donned: disposable coverall equipped with hoods and booties; a NIOSH approved respirator for asbestos work equipped with disposable HEPA filter cartridges; eye protection; steel toed boots/rubber boots; and hard hat.

Those not trained in ACM removal and not actively engaged in the work were restricted from entering the ACM removal work area during the removal effort.

4.1.2 Removal of ACM

Drop cloths, consisting of 6-millimeter polyethylene sheeting were laid out on the ground where the removal work was completed. Asbestos-containing transite panels were wetted with generous amounts of amended water. The materials were then

removed in whole panels, or pieces with pry bars, crowbars, hammers and/or other hand held tools.

4.1.3 Asbestos Air Monitoring

During the abatement of ACM from Buildings 578 and 479, Iniki used personal air monitors to monitor asbestos fiber counts in air to verify that dust control measures were implemented, and the work was performed in a manner consistent with regulatory requirements. Air samples were analyzed in accordance with NIOSH Method 7400. All samples collected were below the method reporting limit (0.0022 fibers per cubic centimeter [f/cc]) for each daily sample. A copy of Iniki's reports for asbestos monitoring in DU2 is included in Appendix E.

4.1.4 Waste Management

At the end of each work day/shift all asbestos waste, scrap, debris, bags, containers, equipment, and asbestos-contaminated clothing or personal protective equipment (PPE) which may produce airborne concentrations of asbestos fibers were placed in sealed impermeable asbestos disposal bags constructed of at least 6-mil plastic material; each bag had the air removed from it and the top of the bag was twisted, goose-necked, and sealed with duct tape. Each bag was then placed in another impermeable asbestos disposal bag (double bagged); the bag had the air removed from it and the top of the bag was twisted, goose-necked, and sealed with duct tape. Bagged or wrapped wastes were stored in appropriate shipping containers that are staged at the airport hangar. In total nearly four shipping containers were filled with ACM generated during the abatement of Buildings 578 and 579.

Procedures for hauling and disposal will comply with 40 CFR 61 (Subpart M), 40 CFR 241 and 257. Containers of ACM will be barged off Site for disposal at a landfill that complies with local regulations and that is permitted to receive ACM. Transportation and disposal will occur under appropriate bills of lading or manifest procedures and the documentation will be provided to FWS as part of future reports.

4.2 Demolition of Buildings 578 and 579

Demolition of the buildings was completed using a variety of heavy equipment, including a tracked skid steer, Volvo excavator, CAT mini-excavator and Volvo off-road dumps. 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. Painted wood was treated with MAECTITE® and disposed of within the R-2 Unit.

In accordance with the RAWP, demolition debris was separated into six categories; 1) treated (painted) concrete; 2) clean concrete; 3) scrap metal; 4) clean wood; 5) painted wood and 6) polyvinyl chloride (PVC) piping. Table 1 provides a summary of the building debris generated during demolition activities. In summary:

- 180 loads of MAECTITE® treated demolition debris were hauled to the R-2 unit for disposal;
- 23 loads of concrete with limited paint residue were hauled to the R-2 unit for disposal; and
- 4 loads of loads of clean concrete and 91 loads of scrap metal were hauled to the designated staging area near the Sea Plane Hangar and stockpiled.

4.3 Excavation of Soil

Prior to excavation, liquid MAECTITE® was applied to soils within the designated excavation areas. 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 depths (Figure 8). 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.

In total, approximately 3,810 cubic yards cy of soil was removed from DU2 (based on a 15 cy per truck volume estimate). This volume is based on the estimated volume of soil within each truck. The actual in-place volume of soil (as measured in the ground) would be less. Upon excavation soils expand, which for sand can range from 12 to 40 percent (swell factor). Due to the limited presence of organic materials in Midway soils, we have assumed a swell factor of 15 percent. Based on this assumption, the actual in ground volume was approximately 3,240 cy.

Using the MVS model (Figures 4 and 6) the predicted excavation volume with a 20% safety factor for excavation methods (sloping of excavation and sloughing of sand) was approximately 3,250 cy., which correlates closely with the calculated (3,240 cy) in place volume. Table 2 provides a summary of the soil excavation volumes and Figure 6 shows the extent of soil excavation from DU2.

Approximately 2,770 gallons of MAECTITE® were applied at DU2. Of this, approximately 2,550 gallons were applied to soils prior to excavation and 220 gallons were applied to demolition debris. The approximate application rate for MAECTITE® (2,550 gallons for 3,240 in place cy) was 0.787 gallons per cy. Table 2 also provides a summary of the MAECTITE® usage during the 2013 field season.

4.4 Confirmation Soil 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 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 32 sub-divisions have had an increment collected (plus the 2 duplicates).

The incremental samples were submitted to TestAmerica for compositing and analysis using MIS laboratory methods and techniques. In total, two MIS samples and four duplicate/triplicate samples were collected from the excavation boundaries of DU2. Table 3 provides a summary of the confirmation sampling results and Figure 8 shows the location of each MIS sampling area.

Lead was detected in each sample and the duplicate at concentrations ranging from 9.3 mg/kg to 29 mg/kg. All results were below the 75 mg/kg cleanup level. Appendix D contains a copy of TestAmerica's laboratory results.

4.5 Backfilling

DU2 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 and hauled in an off-road truck to DU2. The sand was dumped and spread to match the existing grade. In total, 3,180 cy of clean backfill were transported and spread at DU2 (based on a 15 cy per truck average).

As noted in Table 2, the calculated volume of removed soil and the calculated volume of backfill material used do not match. The exact reason for this is unclear but we believe it is due to the fact that the clean fill trucks were loaded heavier due to haul distances. In addition, the loading of a truck with clean fill allows for greater bucket volumes (more soil per excavator scoop). As such, it is likely that the clean fill trucks carried closer to 18 loose cy per load. As noted in the field notes and photographs, DU-2 was backfilled to match the existing grade. Table 2 provides a summary of the clean backfill volume.

5.0 2013 FIELD ACTIVITIES – DU4

During the 2013 field activities, Iniki abated lead based paint (LBP) from the exterior of structures in DU4. 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 the buildings in DU4. Following a reaction period, loose, flaking paint chips were removed from all surfaces including all doors, windows, and trim pieces 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.

6.0 R-2 UNIT

The R-2 unit is being used for the permanent internment of the stabilized waste materials. During the 2012 field event, a pipe in the middle of the R-2 unit was determined to be constructed with ACM. The pipe was removed in 2013 by DBSI.

During a project meeting in December 2013, the FWS determined that the most likely construction alternative for filling the R-2 unit is Option B (May 2012 construction drawings). Using Option B, waste material can be used to fill the R-2 unit to the top of the concrete blocks and capped with clean soil. In addition, the exterior of the R-2 wall will be buttressed with clean soil. Under Option B, the waste capacity of the unit is approximately 30,300 cubic yards. Based on field measurements and volume calculations the R-2 unit contains approximately 13,500 cubic yards of material.

Treatment Confirmation Sampling

Following annual stockpiling of treated soil in the R-2 consolidation unit, a single treatment confirmation sample (MEP2013) was collected on October 8, 2013 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. Sample MEP2013 contained lead concentrations ranging from non-detect to 10 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.

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TABLES

TABLE 1
2013 ADDITIONAL SOIL SAMPLING RESULTS
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

Sample Identification	Sample Date	Lead Concentration (mg/kg)
Building 578		
578-P6 (0-6)	8/24/2013	140
578-P6 (12-18)	8/24/2013	8.4
578-P6 (24-30)	8/24/2013	51
578-P7 (0-6)	8/26/2013	180
578-P7 (12-18)	8/26/2013	36
578-P7 (24-30)	8/26/2013	6.3
578-P9 (0-6)	8/26/2013	37
578-P9 (12-18)	8/26/2013	6.1
578-P9 (24-30)	8/26/2013	2.1
578-P10 (0-6)	8/26/2013	140
578-P10 (12-18)	8/26/2013	47
578-P10 (24-30)	8/26/2013	6.5
578-P10 (30-36)	8/26/2013	15
578-P11 (0-6)	8/26/2013	29
578-P11 (12-18)	8/26/2013	27
578-P11 (24-30)	8/26/2013	34
578-P12 (0-6)	8/26/2013	980
578-P12 (0-6) DUP		610
578-P12 (12-18)	8/26/2013	85
578-P12 (12-18) DUP		120
578-P12 (24-30)	8/26/2013	4.4
578-P12 (24-30) DUP		5.2
578-P13 (0-6)	9/2/2013	31
578-P13 (12-18)	9/2/2013	38
578-P13 (24-30)	9/2/2013	8.8
578-P14 (0-6)	9/2/2013	95
578-P14 (12-18)	9/2/2013	11
578-P14 (24-30)	9/2/2013	3.3 J
578-P15 (0-6)	9/2/2013	28
578-P15 (12-18)	9/2/2013	21
578-P15 (24-30)	9/2/2013	2.2 J
578-P16 (0-6)	9/2/2013	29
578-P16 (12-18)	9/2/2013	1.5 J
578-P16 (24-30)	9/2/2013	1.5 J
578-P17 (0-6)	9/2/2013	62
578-P17 (12-18)	9/2/2013	51
578-P17 (24-30)	9/2/2013	4.1
578-P18 (0-6)	9/2/2013	34
578-P18 (12-18)	9/2/2013	2.9
578-P18 (24-30)	9/2/2013	<3.6

TABLE 1
2013 ADDITIONAL SOIL SAMPLING RESULTS
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

Sample Identification	Sample Date	Lead Concentration (mg/kg)
578-P19 (0-6)	8/31/2013	23
578-P19 (12-18)	8/31/2013	16
578-P19 (24-30)	8/31/2013	25
578-P20 (0-6)	8/31/2013	100
578-P20 (12-18)	8/31/2013	41
578-P20 (24-30)	8/31/2013	0.99 J
578-P20 (24-30)	8/31/2013	423
Building 579		
579-P1 (0-6)	8/28/2013	27
579-P1 (12-18)	8/28/2013	37
579-P1 (24-30)	8/28/2013	<6.2
579-P2 (0-6)	8/28/2013	53
579-P2 (12-18)	8/28/2013	11
579-P2 (24-30)	8/28/2013	2 J
579-P3 (0-6)	8/29/2013	37
579-P3 (12-18)	8/29/2013	2.1 J
579-P3 (24-30)	8/29/2013	0.99 J
579-P4 (0-6)	8/29/2013	43
579-P4 (12-18)	8/29/2013	16
579-P4 (24-30)	8/29/2013	6.1
579-P5 (0-6)	8/29/2013	29
579-P5 (12-18)	8/29/2013	19
579-P5 (24-30)	8/29/2013	9.3
579-P6 (0-6)	8/29/2013	410
579-P6 (12-18)	8/29/2013	370
579-P6 (24-30)	8/29/2013	21
579-P7 (0-6)	8/29/2013	200
579-P7 (0-6) DUP		180
579-P7 (12-18)	8/29/2013	84
579-P7 (12-18) DUP		120
579-P7 (24-30)	8/29/2013	0.84 J
579-P7 (24-30) DUP		2.5 J
579-P8 (0-6)	8/29/2013	83
579-P8 (12-18)	8/29/2013	3.1 J
579-P8 (24-30)	8/29/2013	2 J
579-P9 (0-6)	8/29/2013	150
579-P9 (12-18)	8/29/2013	160
579-P9 (24-30)	8/29/2013	10
579-P10 (0-6)	8/29/2013	160
579-P10 (12-18)	8/29/2013	72
579-P10 (24-30)	8/29/2013	130

TABLE 1
2013 ADDITIONAL SOIL SAMPLING RESULTS
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

Sample Identification	Sample Date	Lead Concentration (mg/kg)
579-P10 (30-36)	8/29/2013	230
579-P11 (0-6)	8/29/2013	230
579-P11 (12-18)	8/29/2013	11
579-P11 (24-30)	8/29/2013	4.6
579-P12 (0-6)	8/29/2013	210
579-P12 (12-18)	8/29/2013	140
579-P12 (24-30)	8/29/2013	110
579-P13 (12-18)	8/29/2013	350
579-P13 (24-30)	8/29/2013	34
579-P14 (0-6)	8/30/2013	220
579-P14 (12-18)	8/30/2013	78
579-P14 (24-30)	8/30/2013	83
579-P15 (0-6)	8/30/2013	37
579-P15 (12-18)	8/30/2013	14
579-P15 (24-30)	8/30/2013	3.3 J
579-P16 (0-6)	8/31/2013	83
579-P16 (12-18)	8/31/2013	25
579-P16 (24-30)	8/31/2013	1 J
579-P17 (0-6)	8/30/2013	150
579-P17 (12-18)	8/30/2013	41
579-P17 (24-30)	8/30/2013	8.1
579-P18 (0-6)	8/30/2013	27
579-P18 (12-18)	8/30/2013	35
579-P18 (24-30)	8/30/2013	1.8 J
579-P19 (0-6)	8/30/2013	36
579-P19 (12-18)	8/30/2013	38
579-P19 (24-30)	8/30/2013	1.9 J
579-P19 (30-36)	8/30/2013	3
579-P20 (0-6)	8/30/2013	63
579-P20 (12-18)	8/30/2013	18
579-P20 (24-30)	8/30/2013	1.5 J
579-P21 (0-6)	8/30/2013	250
579-P21 (12-18)	8/30/2013	41
579-P21 (24-30)	8/30/2013	23
579-P22 (0-6)	8/30/2013	85
579-P22 (0-6) DUP		160
579-P22 (12-18)	8/30/2013	25
579-P22 (12-18) DUP		22
579-P22 (24-30)	8/30/2013	2.4 J
579-P22 (24-30) DUP		2.8
579-P23 (0-6)	8/30/2013	380

TABLE 1
2013 ADDITIONAL SOIL SAMPLING RESULTS
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

Sample Identification	Sample Date	Lead Concentration (mg/kg)
579-P23 (12-18)	8/30/2013	300
579-P23 (24-30)	8/30/2013	120
579-P24 (0-6)	8/31/2013	64
579-P24 (12-18)	8/31/2013	33
579-P24 (24-30)	8/31/2013	31
579-P25 (0-6)	8/31/2013	20
579-P25 (12-18)	8/31/2013	26
579-P25 (24-30)	8/31/2013	15
579-P26 (0-6)	8/31/2013	320
579-P26 (12-18)	8/31/2013	120
579-P26 (24-30)	8/31/2013	2.7 J
579-P27 (0-6)	8/31/2013	230
579-P27 (12-18)	8/31/2013	11
579-P27 (24-30)	8/31/2013	2.3 J
579-P27 (30-36)	8/31/2013	1.9 J
Building 2404		
2404-P1 (0-6)	8/27/2013	69
2404-P1 (12-18)	8/27/2013	2.6 J
2404-P1 (24-30)	8/27/2013	1.1 J
2404-P2 (0-6)	8/27/2013	230
2404-P2 (12-18)	8/27/2013	190
2404-P2 (24-30)	8/27/2013	80
2404-P3 (0-6)	8/27/2013	270
2404-P3 (12-18)	8/27/2013	4.2
2404-P3 (24-30)	8/27/2013	21
2404-P3 (30-36)	8/27/2013	6.7
2404-P4 (0-6)	8/28/2013	54
2404-P4 (12-18)	8/28/2013	110
2404-P4 (24-30)	8/28/2013	34
2404-P5 (0-6)	8/28/2013	93
2404-P5 (0-6) DUP		99
2404-P5 (12-18)	8/28/2013	72
2404-P5 (12-18) DUP		83
2404-P5 (24-30)	8/28/2013	18
2404-P5 (24-30) DUP		17
2404-P6 (0-6)	8/27/2013	17
2404-P6 (12-18)	8/27/2013	6.5
2404-P6 (24-30)	8/27/2013	6.5
2404-P7 (0-6)	8/27/2013	55
2404-P7 (12-18)	8/27/2013	25
2404-P7 (24-30)	8/27/2013	1.2 J

TABLE 1
2013 ADDITIONAL SOIL SAMPLING RESULTS
MIDWAY ATOLL NATIONAL WILDLIFE REFUGE

Sample Identification	Sample Date	Lead Concentration (mg/kg)
2404-P8 (0-6)	8/27/2013	9.1
2404-P8 (12-18)	8/27/2013	12
2404-P8 (24-30)	8/27/2013	11
2404-P9 (0-6)	8/28/2013	23
2404-P9 (12-18)	8/28/2013	8.8
2404-P10 (0-6)	8/27/2013	25
2404-P10 (12-18)	8/27/2013	19
2404-P10 (24-30)	8/27/2013	12
2404-P11 (0-6)	8/27/2013	17
2404-P11 (12-18)	8/27/2013	3.6
2404-P11 (24-30)	8/27/2013	2.4 J
2404 -P12 (0-6)	10/3/2013	24
2405 -P12 (12-18)	10/3/2013	3.7
2406 -P12 (24-30)	10/3/2013	<1.2
2404-P13 (0-6)	10/3/2013	22
2404-P13 (12-18)	10/3/2013	<1.0
2404-P13 (24-30)	10/3/2013	<1.0
QA/QC Results*		
EQUIPMENT BLANK	9/2/2013	<0.001
EQUIPMENT BLANK	9/2/2013	<0.001

Notes

Lead was analyzed by EPA Method 6010B using ICP methods. Results based on wet weight. Shading indicates concentration exceeds the cleanup value of 75 mg/kg.

EPA - Environmental Protection Agency

mg/kg - milligram per kilogram

TABLE 2
DAILY SUMMARY
MIDWAY ATOLL NWR

Date	Maectite Totals (gal)					Treated Soil Totals[1]			DU4 Clean Backfill Totals[1]		Demolition Load Count				
	Applied to Soils (DU2)	Applied to Demo Debris (DU2)	Applied to Walls (DU4)	Applied to Walls (DU6)	Cumulative Total	Treated Soil (Loads)[2]	Excavated / Hauled to R-2 Unit (LCY)	Excavated / Hauled to R-2 Unit Cumulative Total (LCY)	Excavated / Placed from Cargo Pier Borrow Area (LCY)	Cumulative Total (LCY)	Treated Concrete (Loads)[2]	Clean Concrete (Loads)[3]	Metal Debris (Loads)[3]	Clean Wood (Loads)[3]	DU2 Wood Into R2
8/22/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/23/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/24/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/26/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/27/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/28/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/29/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/30/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/31/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/3/2013	0	10	0	0	10	0	0	0	0	0	0	0	0	0	0
9/4/2013	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
9/5/2013	0	0	0	3	13	0	0	0	0	0	0	0	0	0	0
9/6/2013	0	0	10	0	23	0	0	0	0	0	0	0	8	0	0
9/7/2013	0	0	10	0	33	0	0	0	0	0	0	0	10	0	0
9/9/2013	0	0	10	0	43	0	0	0	0	0	0	0	17	0	0
9/10/2013	0	25	10	0	78	0	0	0	0	0	0	0	4	0	15
9/11/2013	0	30	15	0	123	0	0	0	0	0	0	0	0	0	32
9/12/2013	0	30	15	1	169	0	0	0	0	0	0	0	0	0	31
9/13/2013	0	5	15	0	189	0	0	0	0	0	0	0	5	0	9
9/14/2013	0	0	10	0	199	0	0	0	0	0	0	0	25	0	0
9/16/2013	0	30	15	0	244	0	0	0	0	0	0	0	2	0	23
9/17/2013	0	20	0	0	264	0	0	0	0	0	0	0	3	0	21
9/18/2013	0	50	0	0	314	0	0	0	0	0	0	0	4	0	26
9/19/2013	0	20	5	0	339	0	0	0	0	0	0	0	6	0	20
9/20/2013	0	0	0	0	339	0	0	0	0	0	4	0	2	0	3
9/21/2013	397	0	0	0	736	0	0	0	0	0	0	0	0	0	0
9/23/2013	566	0	0	0	1,302	21	315	315	0	0	0	0	0	0	0
9/24/2013	111	0	0	0	1,413	35	525	840	0	0	0	0	1	0	0
9/25/2013	194	0	0	0	1,607	30	450	1,290	0	0	0	0	0	0	0
9/26/2013	350	0	0	0	1,957	27	405	1,695	0	0	0	0	0	0	0
9/27/2013	303	0	0	0	2,260	24	360	2,055	0	0	3	0	1	0	0
9/28/2013	77	0	0	0	2,337	0	0	2,055	0	0	7	0	0	0	0
9/29/2013	266	0	0	0	2,603	22	330	2,385	0	0	1	1	1	0	0
9/30/2013	0	0	0	0	2,603	0	0	2,385	0	0	0	1	0	0	0
10/1/2013[5]	0	0	0	0	2,728	12	180	2,565	0	0	1	0	0	0	0
10/2/2013	0	0	0	0	2,728	36	540	3,105	0	0	7	0	0	0	0
10/3/2013	60	0	0	0	2,788	28	420	3,525	0	0	0	2	1	0	0
10/4/2013	96	0	0	0	2,884	10	150	3,675	0	0	0	0	0	0	0
10/5/2013	0	0	0	0	2,884	0	0	3,675	765	765	0	0	0	0	0
10/6/2013	0	0	0	0	2,884	0	0	3,675	1,215	1,980	0	0	0	0	0
10/7/2013	0	0	0	0	2,884	0	0	3,675	870	2,850	0	0	0	0	0
10/8/2013	126	0	0	0	3,010	9	135	3,810	300	3,150	0	0	0	0	0
10/9/2013	0	0	0	0	3,010	0	0	3,810	30	3,180	0	0	1	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 and clean wood loads were hauled and deposited in separate project stockpiles located near Bldg 151 (Sea Plane Hanger)
4. MAECTITE® applied to base of excavation.
5. On 10/1/2013, 125 gallons of MAECTITE® was applied to ash within the R2 Unit.
LCY - loose cubic yard
gal - gallon

TABLE 3
DU2 CONFIRMATION SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/kg)	Note
Bldg 578	10/8/2013	10	Bldg 578
Dup-1	10/8/2013	9.3	Duplicate of Sample ID 578
Dup-2	10/8/2013	17	Duplicate of Sample ID 578
Bldg 579	10/8/2013	9.9	Bldg 579
Dup-3	10/8/2013	14	Duplicate of Sample ID 357
Dup-4	10/8/2013	29	Duplicate of Sample ID 357

Notes
1. Lead was analyzed by EPA Method 6010B following MIS/ICS preparation.
MIS - multi-incremental sampling
EPA - Environmental Protection Agency
mg/kg - milligram per kilogram

TABLE 4
MEP SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/l)
MEP 2013	10/8/2013	<10
		<10
		<10
		<10
		<10
		<10
		10
		<10
		<10

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

TABLE D-1
2013 ADDITIONAL SOIL SAMPLING
RELATIVE PERCENT DIFFERENCES
MIDWAY ATOLL NWR

Sample Identification	Sample Date	Lead Concentration (mg/kg)	Relative Percent Difference
578-P12 (0-6)	8/26/2013	980	47%
578-P12 (0-6) DUP		610	
578-P12 (12-18)	8/26/2013	85	34%
578-P12 (12-18) DUP		120	
578-P12 (24-30)	8/26/2013	4.4	17%
578-P12 (24-30) DUP		5.2	
579-P7 (0-6)	8/29/2013	200	11%
579-P7 (0-6) DUP		180	
579-P7 (12-18)	8/29/2013	84	35%
579-P7 (12-18) DUP		120	
579-P7 (24-30)	8/29/2013	0.84	99%
579-P7 (24-30) DUP		2.5	
579-P22 (0-6)	8/30/2013	85	61%
579-P22 (0-6) DUP		160	
579-P22 (12-18)	8/30/2013	25	13%
579-P22 (12-18) DUP		22	
579-P22 (24-30)	8/30/2013	2.4	15%
579-P22 (24-30) DUP		2.8	
2404-P5 (0-6)	8/28/2013	93	6%
2404-P5 (0-6) DUP		99	
2404-P5 (12-18)	8/28/2013	72	14%
2404-P5 (12-18) DUP		83	
2404-P5 (24-30)	8/28/2013	18	6%
2404-P5 (24-30) DUP		17	

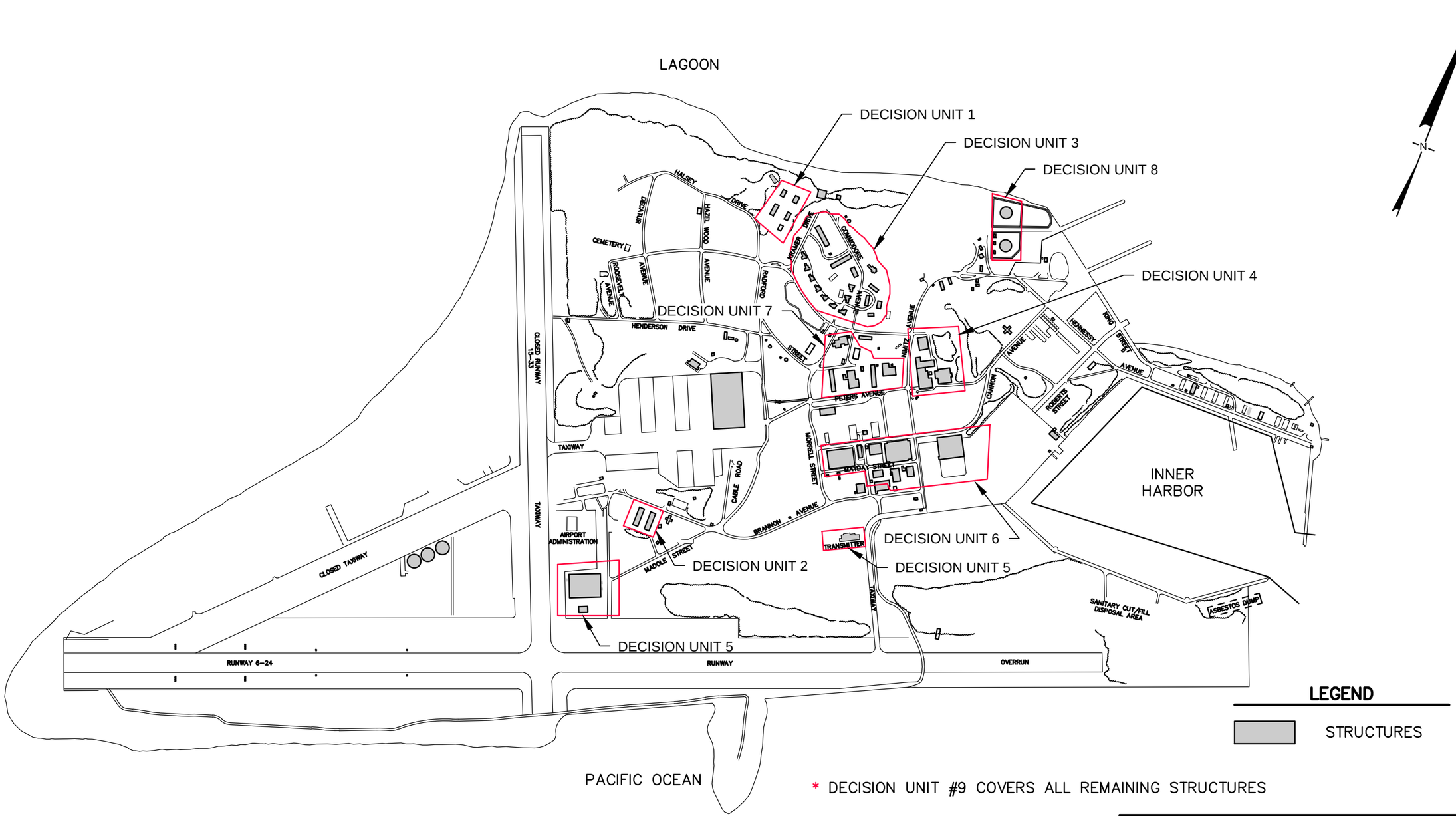
Notes

Lead was analyzed by EPA Method 6010B using ICP methods. Results based on wet weight.

EPA - Environmental Protection Agency

mg/kg - milligram per kilogram

FIGURES



* DECISION UNIT #9 COVERS ALL REMAINING STRUCTURES

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

Figure:
1

FEBRUARY 2014

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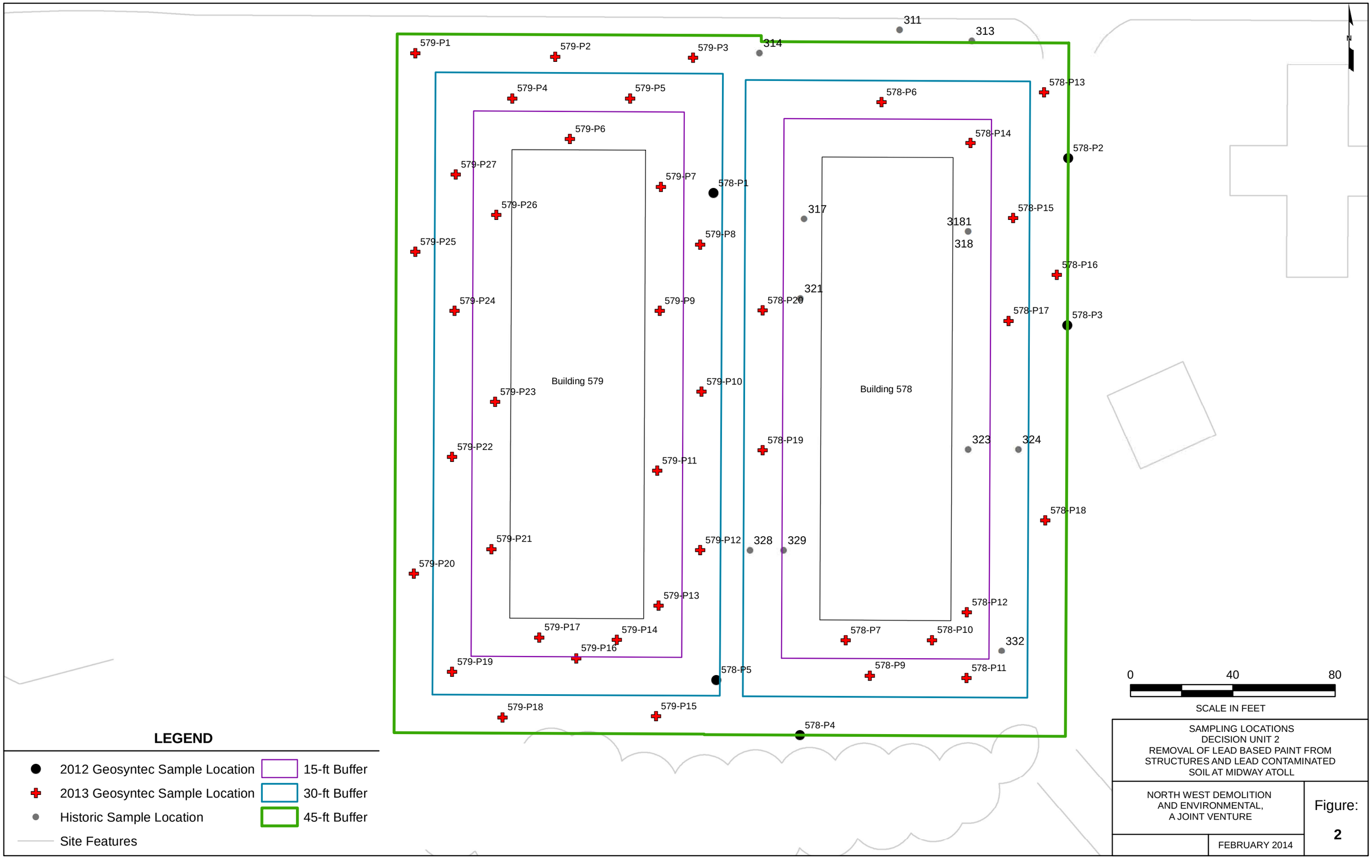

SAMPLING LOCATIONS
DECISION UNIT 2
REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

Figure: **2**

FEBRUARY 2014

LEGEND

- 2012 Geosyntec Sample Location
- 2013 Geosyntec Sample Location
- Historic Sample Location
- Site Features
- 15-ft Buffer
- 30-ft Buffer
- 45-ft Buffer
- Pavement

SAMPLING LOCATIONS
DECISION UNIT 4
REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

FEBRUARY 2014

Figure: **3**

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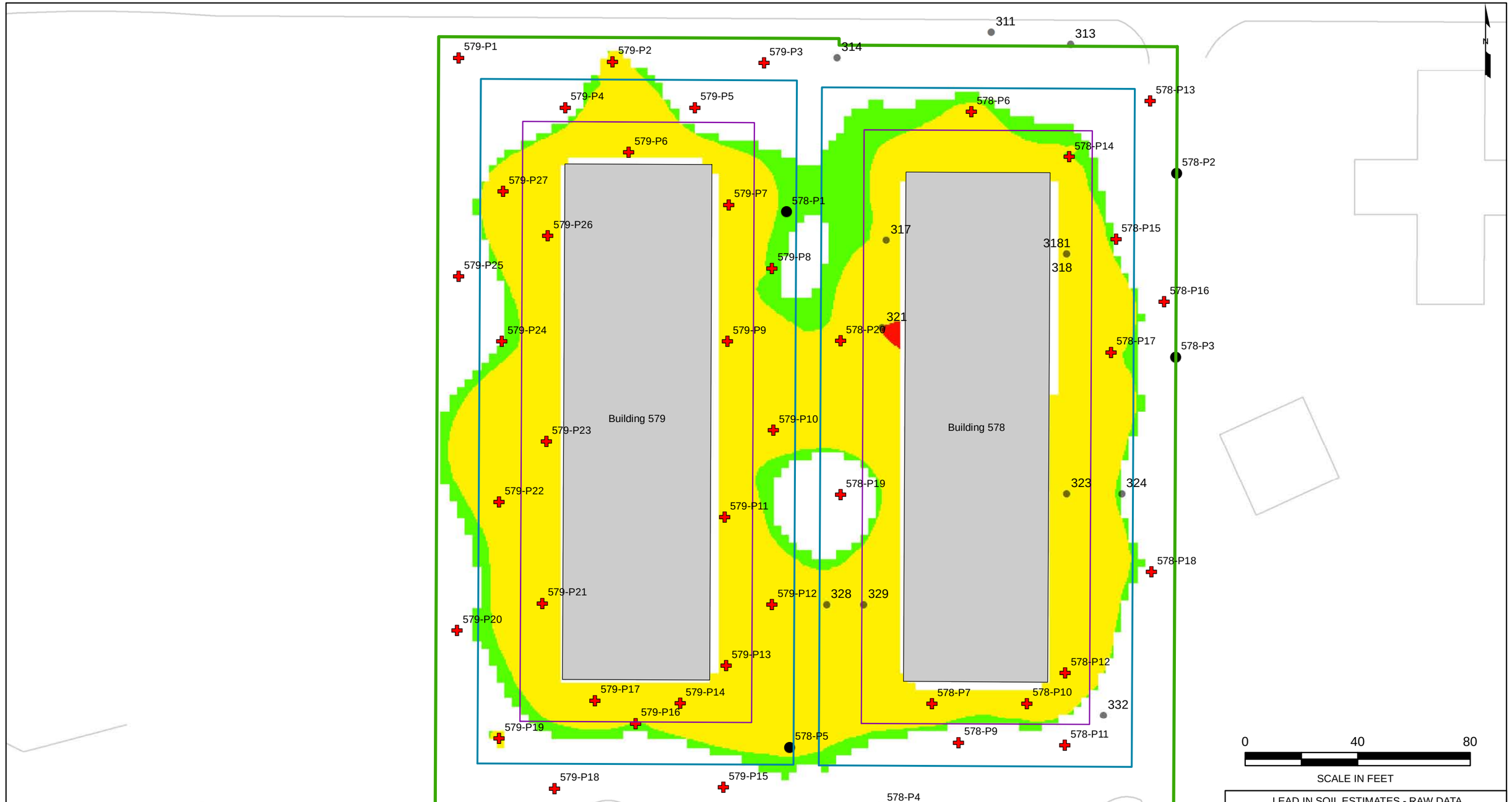

LEGEND

- 2012 Geosyntec Sample Location
- 2013 Geosyntec Sample Location
- Historic Sample Location
- Site Features
- 15-ft Buffer
- 30-ft Buffer
- 45-ft Buffer
- 75 - 300 mg/kg
- 300 - 1000 mg/kg
- 1000 - 3000 mg/kg

LEAD IN SOIL ESTIMATES - RAW DATA
DECISION UNIT 2
REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

FEBRUARY 2014

Figure: 4

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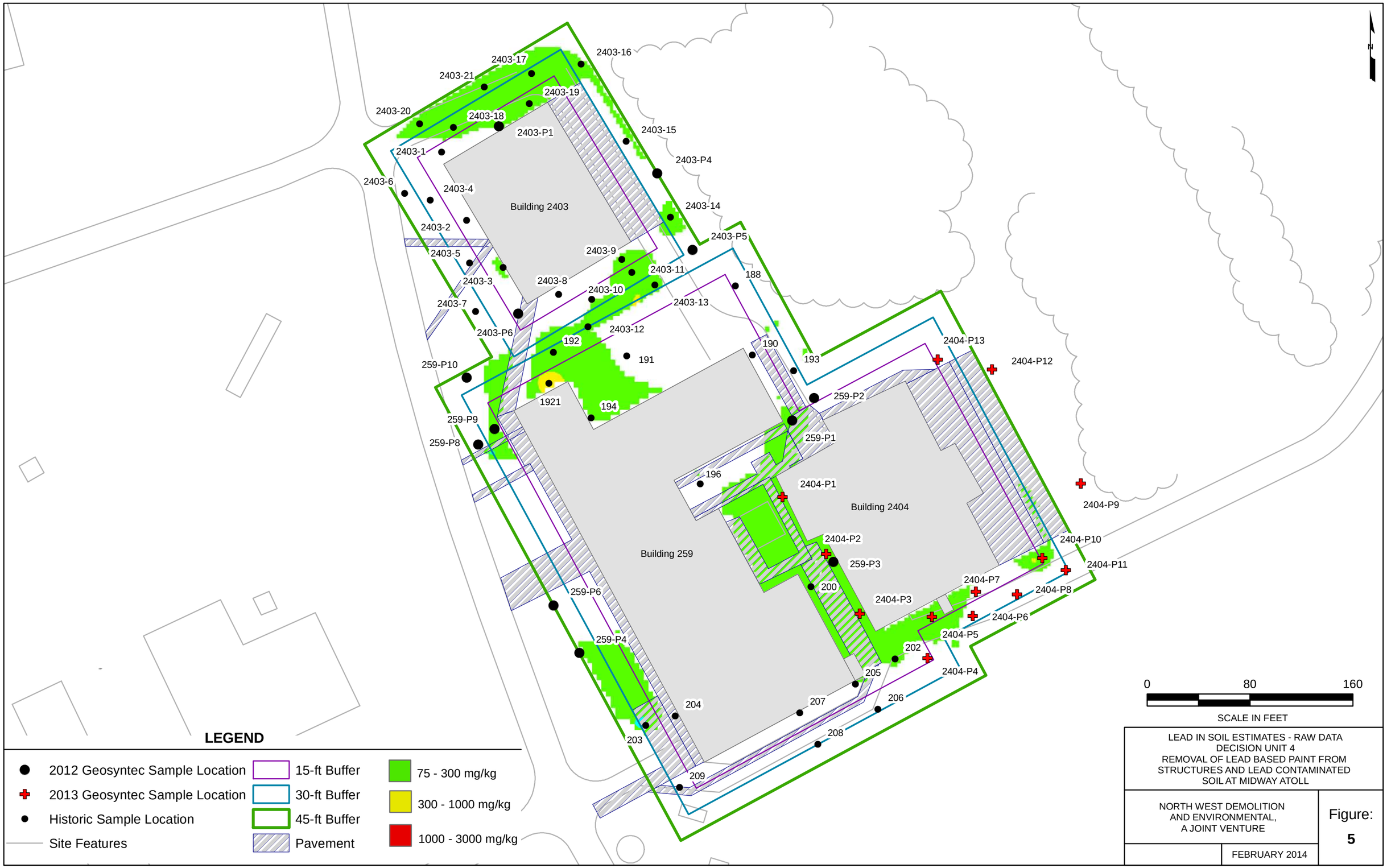
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2403-15
2403-1
2403-P4
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2403-4
Building 2403
2403-14
2403-2
2403-P5
2403-5
2403-9
2403-11
188
2403-8
2403-3
2403-10
2403-7
2403-13
2403-P6
2403-12
192
190
2404-P13
191
193
2404-P12
259-P10
259-P2
1921
194
259-P9
259-P1
259-P8
196
2404-P1
Building 2404
2404-P9
2404-P2
2404-P10
Building 259
259-P3
2404-P11
200
2404-P7
259-P6
2404-P8
2404-P3
2404-P6
259-P4
2404-P5
202
205
2404-P4
204
207
206
203
208
209
0
80
160
SCALE IN FEET
LEGEND
2012 Geosyntec Sample Location
2013 Geosyntec Sample Location
Historic Sample Location
Site Features
15-ft Buffer
30-ft Buffer
45-ft Buffer
Pavement
75 - 300 mg/kg
300 - 1000 mg/kg
1000 - 3000 mg/kg
LEAD IN SOIL ESTIMATES - RAW DATA
DECISION UNIT 4
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL
NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE
Figure:
5
FEBRUARY 2014
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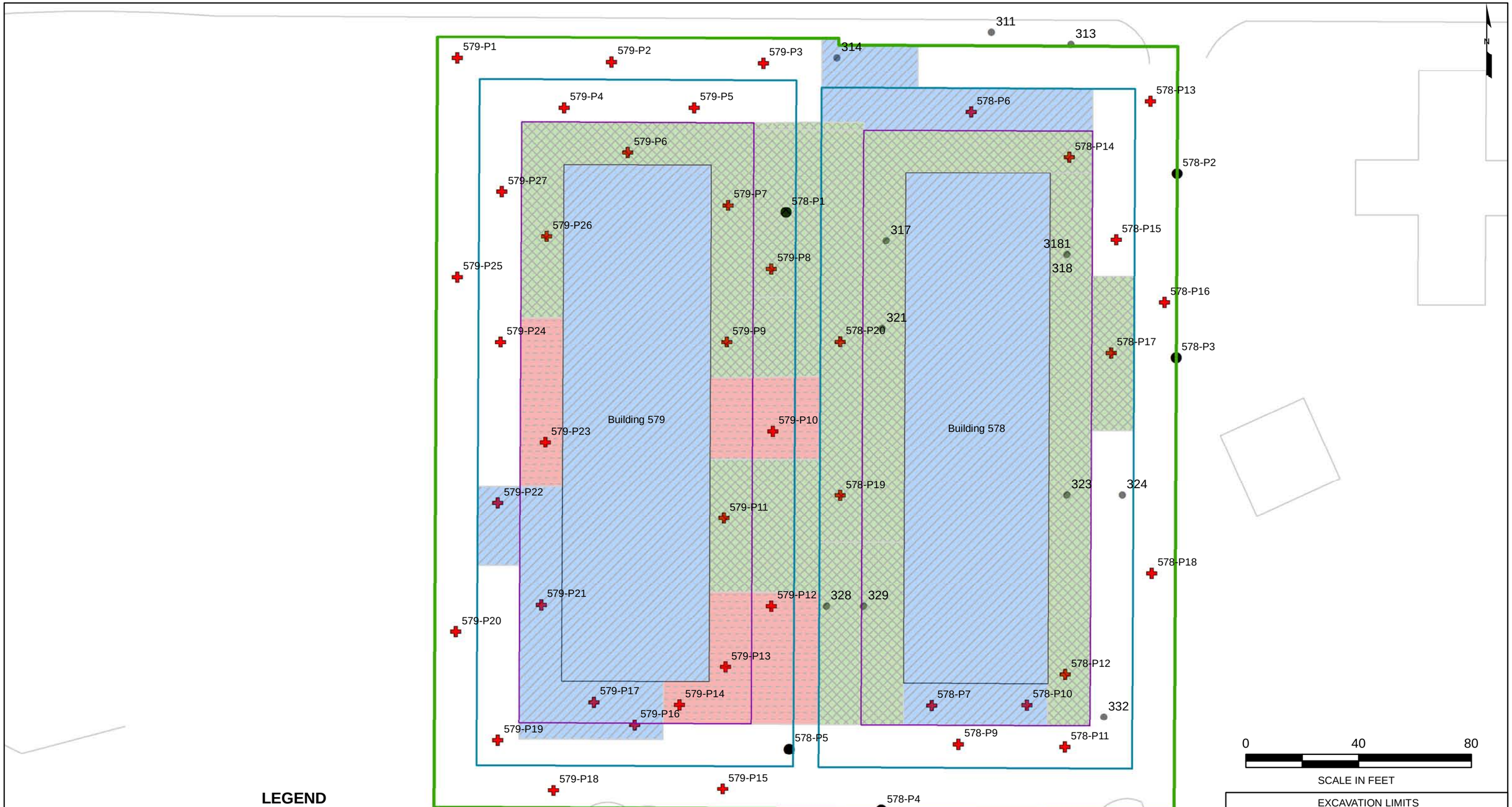


LEGEND

- 2012 Geosyntec Sample Location
- 2013 Geosyntec Sample Location
- Historic Sample Location
- Site Features

Excavation Depth (feet)

- 1.0
- 2.0
- 3.0

- 15-ft Buffer
- 30-ft Buffer
- 45-ft Buffer

Note: Total estimated excavation volume with 20% safety factor = 3,250 bulk cubic yards

EXCAVATION LIMITS
DECISION UNIT 2
REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NORTH WEST DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

FEBRUARY 2014

Figure: **6**

Path: P:\GIS\Projects\Midway\Maps\2013 Joint\omat_1.mxd


2403-16
2403-17
2403-21
2403-19
2403-20
2403-18
2403-P1
2403-15
2403-1
2403-P4
2403-6
2403-4
Building 2403
2403-14
2403-2
2403-P5
2403-5
2403-9
2403-11
188
2403-3
2403-8
2403-10
2403-7
2403-13
2403-P6
2403-12
192
190
2404-P13
2404-P12
259-P10
191
193
259-P2
1921
194
259-P9
259-P1
259-P8
196
2404-P1
Building 2404
2404-P9
2404-P2
2404-P10
Building 259
259-P3
2404-P11
200
2404-P7
259-P6
2404-P8
2404-P3
2404-P6
259-P4
2404-P5
202
205
2404-P4
204
207
206
203
208
209
LEGEND
2012 Geosyntec Sample Location
2013 Geosyntec Sample Location
Historic Sample Location
Site Features
Excavation Depth (feet)
1.0
2.0
3.0
15-ft Buffer
30-ft Buffer
45-ft Buffer
Pavement
Note: Total estimated excavation volume with 20% safety factor = 3,470 bulk cubic yards
0
80
160
SCALE IN FEET
EXCAVATION LIMITS
DECISION UNIT 4
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL
NORTH WEST DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE
Figure:
7
FEBRUARY 2014
Path: P:\GIS\Projects\Midway\Maps\2013 Joint format_4.mxd

APPENDIX A

DAILY FIELD REPORTS

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, August 22, 2013
Prepared by: Scott Wakefield

Project: Abatement of Asbestos, 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 mid 80s.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	3
Dane Borero	Iniki Laborer	3
Derrick Butay	Iniki Laborer	3
Kailialoha Kaawa	Iniki Laborer	3
Lauren Lewis	Iniki Laborer	3

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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
JLG Manlift	JLG	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0600 – Crew arrives at Bradley Pacific Aviation in Honolulu, Hawaii for transport to Midway.

1100 – Crew arrives at Midway and is issued quarters in Charlie Barracks. Scheduling for Midway orientation is set for Friday morning 0800.

1200 – Lunch

1300 – NWDE E. White, J. Stone and S. Wakefield begin inspection of equipment staging area and condition of excavators, off road dump trucks and shipping containers.

1530 – NWDE E. White and S. Wakefield visually inspect the R2 unit. The wood pile size is paced off, measuring 78' long x 30' wide x 8' in height.

NWDE J. Stone works on prepping equipment and supplies in staging area after a winters storage under cover.

1700 – End of day.

Photographs:

Photo 01: NWDE staging and storage area of equipment.

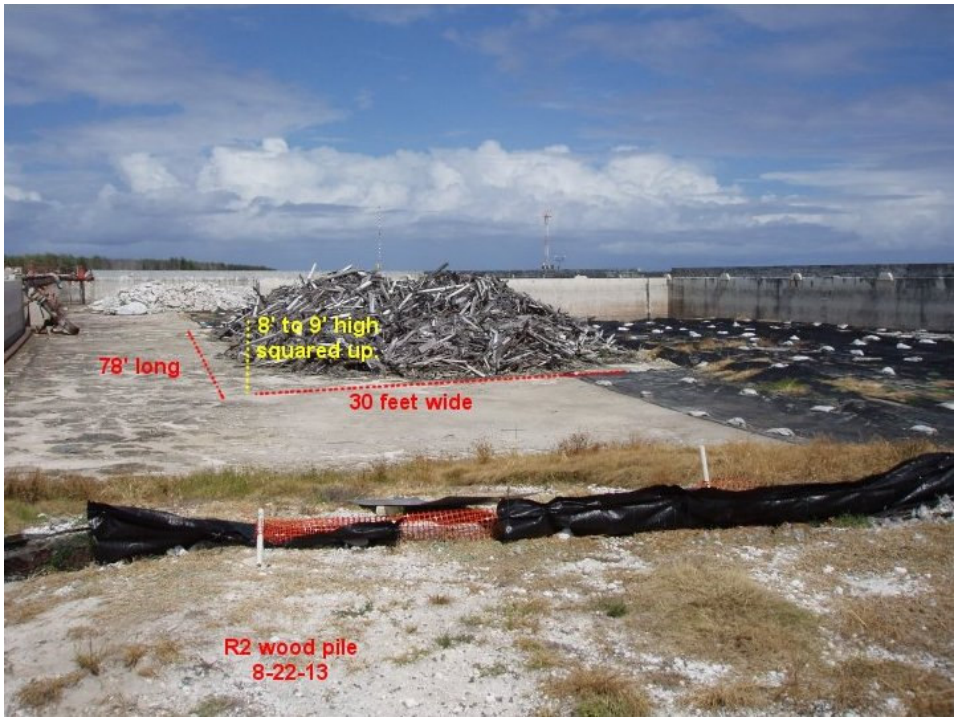


Photo 02: R2 area with approximate wood pile measurements.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, August 23, 2013
Prepared by: Scott Wakefield

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

Weather: Partly cloudy, brief shower, temps mid 80s.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Donny Evans	DBSI
Moo (Kriangkraai)	DBSI
A2 (Narongkrom)	DBSI

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
JLG Manlift	JLG	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0800 – P. Leary, U.S. FWS conducts Midway Atoll National Wildlife Refuge and Papahanaumokuakea Marine National Monument orientation for all NWDE and Iniki personnel.

0945 – NWDE continues on staging area preparation of supplies and equipment.

Iniki mobilizes man lift to Bldg 579. Plastic is laid out on West side, North end of Bldg 579. Hydrant connection is made for water to be applied to ACM. Air monitoring is initiated in work area.

1030 – NWDE E. White, S. Wakefield, M. Amann, U.S. FWS walk through Bldg 579 and 578 for interior inspection. Bldg 578 center stairwell appears to have transite panels on interior walls that need addressed.

1100 – Iniki begins removal of transite siding on Bldg 579 West exterior wall, Northern end.

1200 – Lunch

1240 – Iniki continues on Bldg 579 ACM siding removal 1st and 2nd story.

NWDE works on small repairs of equipment in staging area.

1400 – Light rain. Iniki has progressed on upper and lower story of Bldg 579. ACM siding is being collected, double wrapped and staged onsite.

1500 – NWDE E. White, S. Wakefield, M. Amann, U.S. FWS, Donny and Mu from DBSI meet to inspect stairwell of Bldg 578. Determine DBSI will initiate removal of transite paneling in stairwell beginning Monday, Aug 26, 2013.

1545 – NWDE E. White, S. Wakefield travel to DU4 BLD 2404 for inspection of area for upcoming soil sample collection points.

1600 – Iniki continues to progress on ACM siding removal and containment of ACM materials.

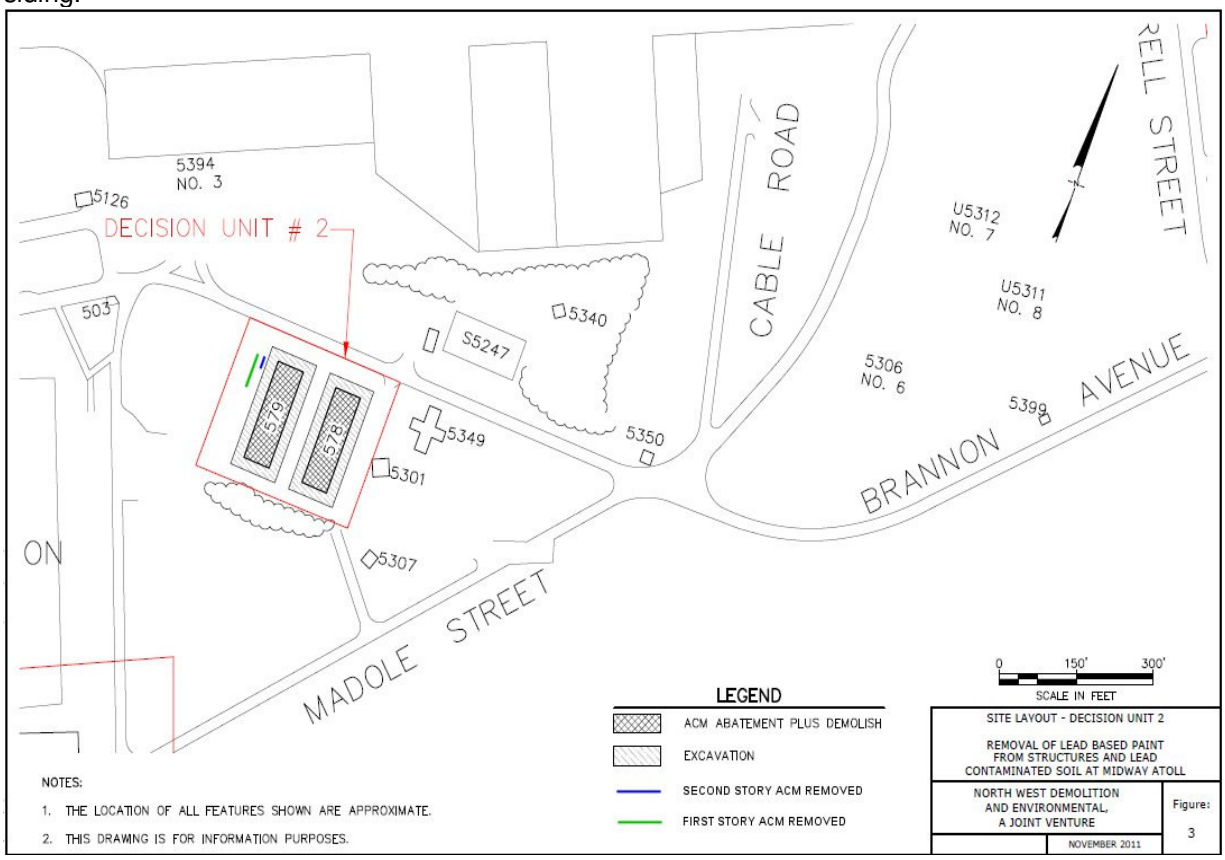
1730 – End of day.

Photographs:

Photo 01: Iniki begins removing ACM transite siding from Bldg 579.

Site Map

The attached site map show approximate lineal lengths of removed Asbestos Containing Material transite siding.



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 24, 2013
Prepared by: Scott Wakefield

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

Weather: High clouds, temp 80-84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0930 – NWDE crew E. White and J. Stone repair service truck. Corrosion had degraded the main electrical power distribution for the engine.

Iniki expands work area to South end of Bldg 579. 6mil Poly, additional cones and warning tape deployed in the expanded work area. First floor on South end begins removal of ACM siding. On the West side continuation of second story transite siding is removed.

0945 – NWDE S. Wakefield lays points out for 578 soil sample collection. Verify building sizes, and point layout.

1145 – Lunch

1215 – Iniki continues on Bldg 579 ACM siding removal 1st and 2nd story. They keep progressing on West and South sides, removing ACM and double bagging it within the work area.

1400 – NWDE gets second Volvo end dump running. Second excavator still is not operational due to batteries and electrical problems being worked on.

Iniki maintains satisfactory progress on the West side upper story. Additionally the South side first floor siding is nearly all removed.

S. Wakefield sets up the soil sampling supplies, three bucket decon and COC blanks for first sample point at Bldg 758-P6. Move 758-P6 point 4' to the West due to concrete sidewalk straight out from steps. One 0-6" composite collected,12"-18" and 24"-30".

1500 – Iniki's collection of ACM continues to be placed in plastic double containment. By the end of the day 9 "burritos" of ACM siding have been placed in one 20' shipping container at NWDE staging area.

1710 – End of day.

Photographs:

Photo 01: Iniki on second floor removing ACM transite siding from Bldg 579.

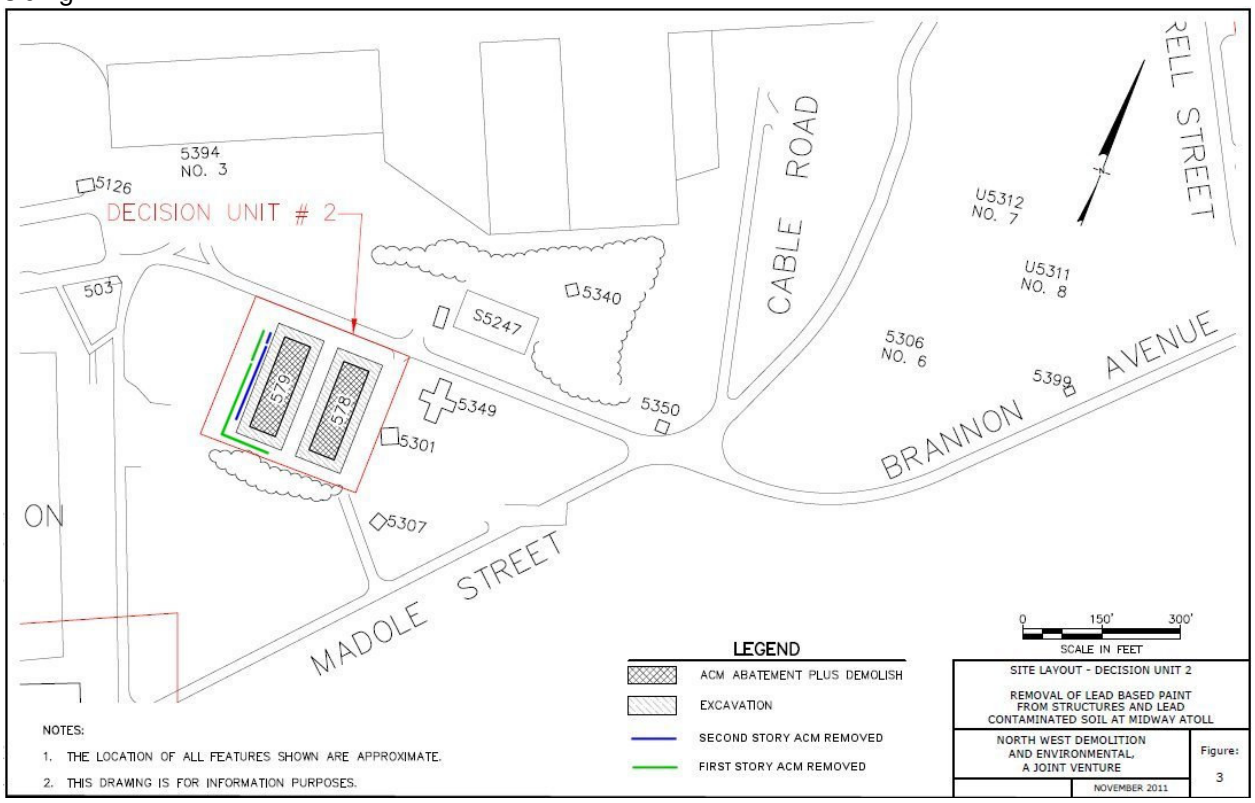
Photo 02: Progress of West and South walls of Bldg 579

Photo 03: Air monitoring equipment in place for work area air sampling.

Photo 04: Bldg 579 end of work day West and South walls.

Site Map

The attached site map show approximate lineal lengths of removed Asbestos Containing Material transite siding.



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, August 26, 2013
Prepared by: Scott Wakefield

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

Weather: Scattered clouds, light winds, temperature mid 80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Donnie Evans	DBSI
Apiwat Juethong	DBSI
Kriengkrai Sriprasert	DBSI
Hatsanai Wichana	DBSI
Surat Baojanya	DBSI
Seekhun Saikham	DBSI
Ek-anan-In-uthon	DBSI
Narongkorn ThatsanangKun	DBSI

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	6.5 gallons	
Mogas	16 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0930 – NWDE crew E. White and J. Stone remain on equipment prep and repair operations in the staging area. S. Wakefield working to complete Bldg 578 soil samples on Southern side of barracks.

Iniki progresses on Bldg 579, working South end of structure and lays a new work area to the East side exterior wall for more transite ACM removal.

DBSI crew moves in to set up work area in Bldg 578 to remove the stairwell ACM material. Seven man crew works to remove wall and ceiling ACM sheeting.

1000 – M. Amann, U.S. FWS, E. White, J. Stone, S. Wakefield, NWDE and J. Kauw, Iniki attend phone conference with Hawaii and mainland offices to discuss progress, schedule, R2 wood planning and safety topics. Refer to meeting minutes for additional detail.

1035 – Iniki is working East side of upper floor for ACM removal. Poly sheeting lined work area continues to accumulate “burrito” double bag wraps of ACM material before it is transferred to a 20’ shipping container in NWDE staging area.

1350 – Iniki has removed transite siding from approximately 1/3 of the second story, East wall.

NWDE S. Wakefield continues to collect soil samples on South side of Bldg 578.

1455 – NWDE S. Wakefield finishes task of soil samples for Bldg 578, including one duplicate and one boring to 30”-36” sample depth.

1515 – Iniki has transferred a portion of the double bagged ACM material to 20' shipping container. To date, Bldg 579 has filled the container approximately 8' deep, 4' tall and the full width of the container. Note that a percentage of ACM material is still staged at Bldg 579, having not been moved yet.

NWDE S. Wakefield positions sample point layout for Bldg 2404 in DU4 area.

1710 – End of Day. Iniki made progress removing transite siding on East wall, second story for 55% of the building length. The same East wall at ground level has 40% of the ACM siding removed.

NWDE finished out the day prepping equipment. The second excavator still is not operational yet. The problem continues to be electrical in nature. Additional repairs were made today to the mobile air compressor.

Photographs:

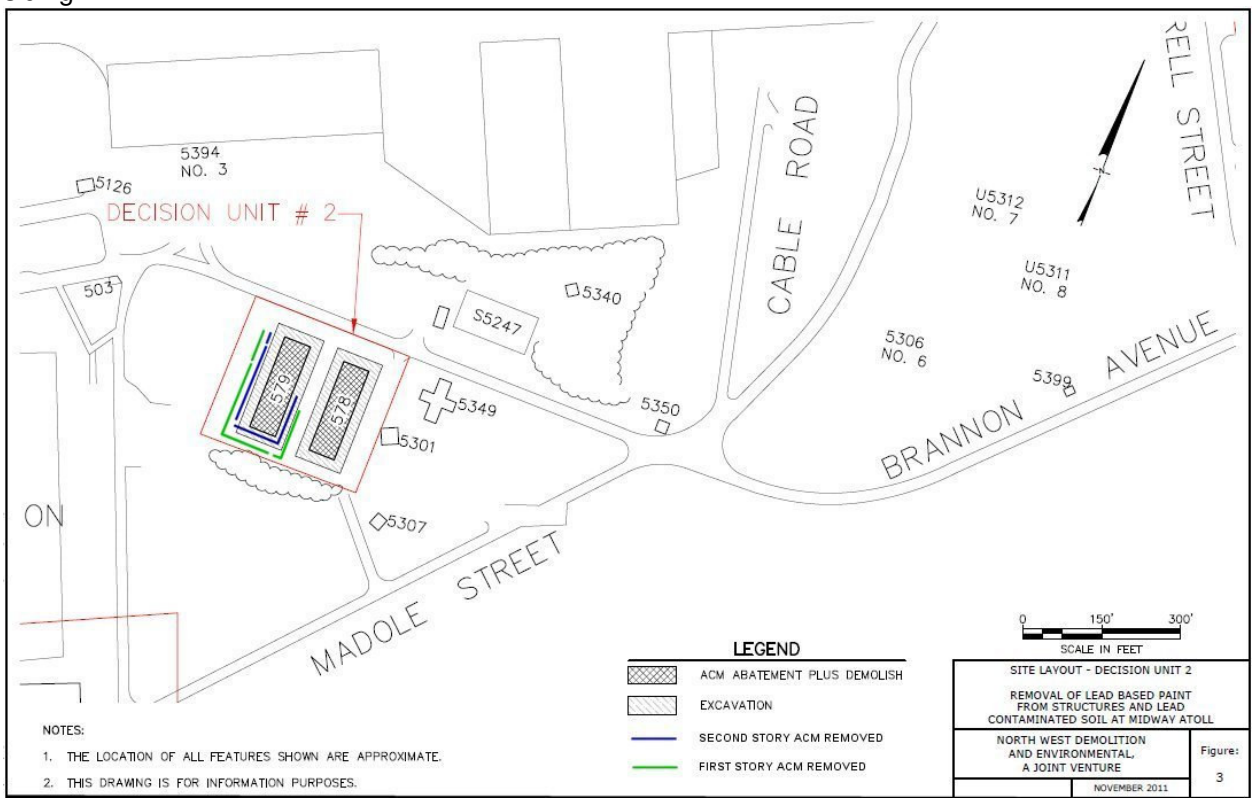
Photo 01: DBSI wet access to stairwell abatement in Bldg 578.

Photo 02: Auger near 24”-30” sample elevation at Bldg 579.

Photo 03: Bldg 579 progress at end of work day showing South and East walls.

Site Map

The attached site map show approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples Points Collected for Bldg 578 on 8-24-13 and 8-26-13

578-P6 (0-6)	578-P11 (0-6)
578-P6 (12-18)	578-P11 (12-18)
578-P6(24-30)	578-P11 (24-30)
578-P7 (0-6)	578-P12 (0-6)
578-P7 (12-18)	578-P12 (12-18)
578-P7 (24-30)	578-P12 (24-30)
578-P9 (0-6)	578-P12 (0-6) Dup
578-P9 (12-18)	578-P12 (12-18) Dup
578-P9 (24-30)	578-P12 (24-30) Dup
578-P10 (0-6)	
578-P10 (12-18)	
578-P10 (24-30)	
578-P10 (30-36)	

Note: 578-P8 point does not exist due to labeling on site map.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, August 27, 2013
Prepared by: Scott Wakefield

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

Weather: High clouds, light winds, temperature 78-81F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Donnie Evans	DBSI
Apiwat Juethong	DBSI
Kriengkrai Sriprasert	DBSI
Hatsanai Wichana	DBSI
Surat Baojanya	DBSI
Seekhun Saikham	DBSI
Ek-anan-In-uthon	DBSI
Narongkorn ThatsanangKun	DBSI

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	* Pick up 8-26-13 in flatbed tank

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki keeps up progress in removing transite siding from Bldg 579.

DBSI continues removal of stairwell ACM materials in Bldg 578.

S. Wakefield, NWDE begins soil sampling at Bldg 2404.

0945 – DBSI abatement crew finishes the stairwell ACM removal. M. Amann, U.S. FWS, E. White, NWDE and Donnie Evans, DBSI inspect Bldg 578 that the last remaining interior ACM in the stairwell has been removed.

1000 – NWDE continues on equipment preparations in the staging area. Equipment is operational.

1150 – Iniki has removed the full length of siding from the East wall of Bldg 579. The work area is expanded to the North side of the building.

1200 – Lunch

1530 – This afternoon S. Wakefield, NWDE has continued to collect soil samples at Bldg 2404.

Iniki is nearing completion of the ACM removal on the exterior of Bldg 579.

1710 – End of Day. Iniki has completed exterior siding removal on upper and lower levels of Bldg 579. Remaining task for tomorrow is to transfer the double wrapped bags of ACM materials at the work site to the shipping container and pick up the work area around the structure.

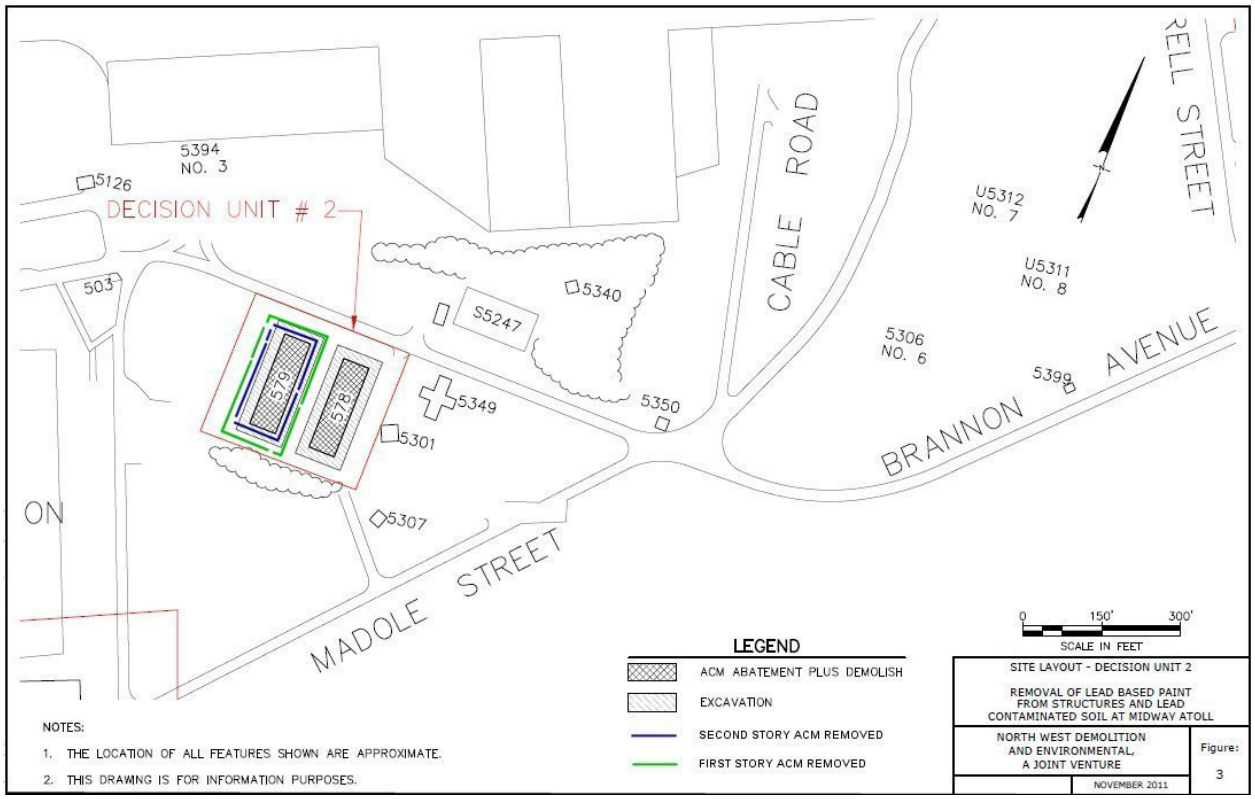
Photographs:

Photo 01: Bldg 579 North side.

Photo 02: End of Day. Bldg 579 (right) exterior ACM siding fully removed.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples Points Collected for Bldg 2404 on 8-27-13

2404-P1 (0-6)	2404-P7 (0-6)
2404-P1 (12-18)	2404-P7 (12-18)
2404-P1 (24-30)	2404-P7 (24-30)
2404-P2 (0-6)	2404-P8 (0-6)
2404-P2 (12-18)	2404-P8 (12-18)
2404-P2 (24-30)	2404-P8 (24-30)
2404-P3 (0-6)	2404-P10 (0-6)
2404-P3 (12-18)	2404-P10 (12-18)
2404-P3 (24-30)	2404-P10 (24-30)
2404-P3 (30-36)	2404-P11 (0-6)
2404-P6 (0-6)	2404-P11 (12-18)
2404-P6 (12-18)	2404-P11 (24-30)
2404-P6 (24-30)	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, August 28, 2013
Prepared by: Scott Wakefield

Project: Abatement of Asbestos, 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 winds and rain, temperature 79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	36 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki works to move the remaining double wrapped ACM material staged at Bldg 579 over to the 20' shipping container.

S. Wakefield, NWDE photo documents the R2 wood pile, specifically the small test pile that NWDE stacked up within the R2 containment. Base of test pile is approximately 6' x 6' x 5' tall. Test burn is pending. Airport and Fire Station approval for a specific day have yet to be determined. Predicted rain and wind this week will likely prevent the test burn from occurring in the next few days.

S. Wakefield continues soil sampling at Bldg 2404.

1045 – Iniki keeps hauling double bagged ACM material via flatbed truck to the collection shipping container. Crew also begins moving work area materials over to Bldg 578 in preparation for siding removal.

S. Wakefield finishes soil sampling at Bldg 2404.

1200 – Lunch

1245 – M. Amann, U.S. FWS and E. White, NWDE travel to R2 unit to inspect the existing vault / depression on the Eastern side of the R2 concrete enclosure. Discussed removal of steel in the vault area and filling with concrete rip rap. If U.S. FWS decides to proceed with this task, M. Amann will issue a written directive to proceed.

1535 – J. Stone, NWDE and S. Wakefield lay out sample points around Bldg 579. Begin soil sample collection on Bldg 579.

Iniki has transferred bagged ACM material from Bldg 579 to shipping container and moved work area over to Bldg 578.

1710 – End of Day.

Photographs:

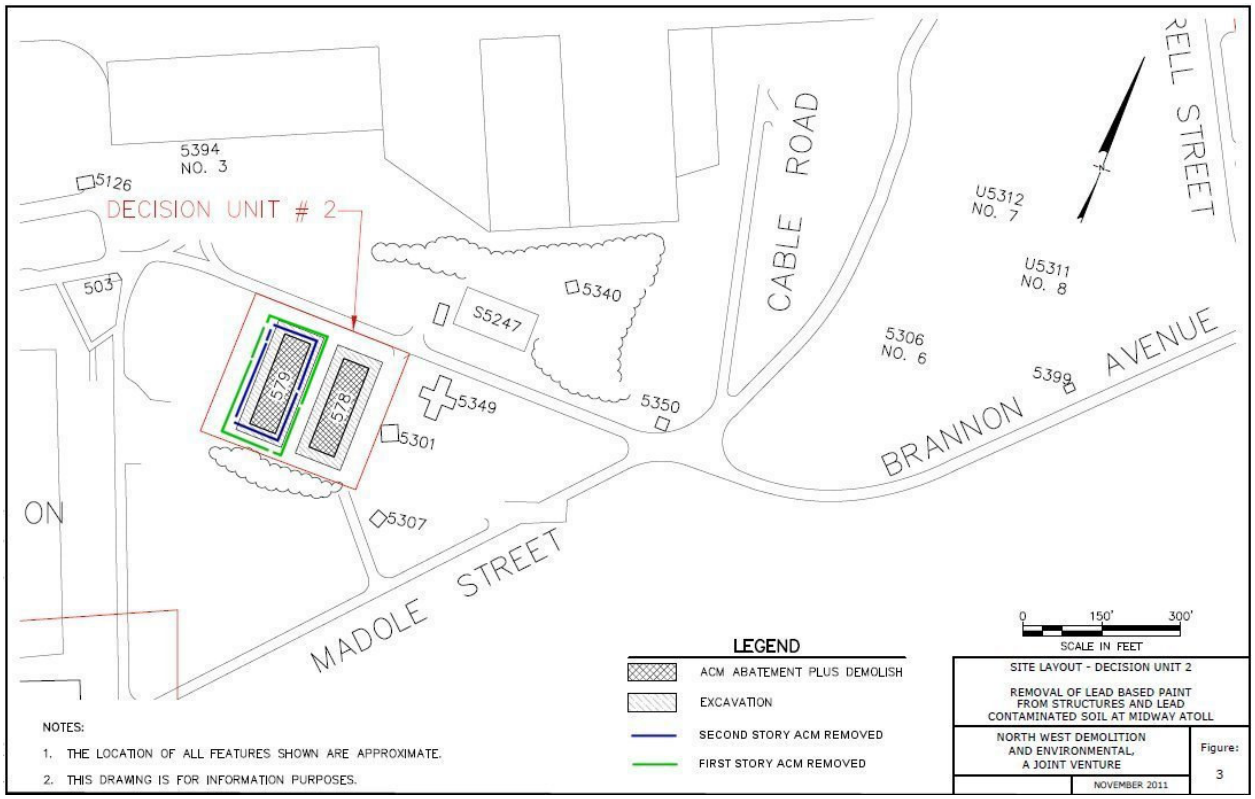
Photo 01: Bldg 579, North side.

Photo 02: Shipping container that the bagged ACM material from Bldg 579 is placed into.

Photo 03: R2 Test Pile (left) within the containment area.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collected today for Bldg 2404 & Bldg 579.

2404-P4 (0-6)	2404-P9 (0-6)
2404-P4 (12-18)	2404-P9 (12-18)
2404-P4 (24-30)	2404-P9 (24-30) refusal
2404-P5 (0-6)	579-P1 (0-6)
2404-P5 (12-18)	579-P1 (12-18)
2404-P5 (24-30)	579-P1 (24-30)
2404-P5 (0-6) DUP	579-P2 (0-6)
2404-P5 (12-18) DUP	579-P2 (12-18)
2404-P5 (24-30) DUP	579-P2 (24-30)

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, August 29, 2013
Prepared by: Scott Wakefield

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

Weather: Cloudy, moderate wind, temperature 80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Donnie Evans	DBSI

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki focuses on the West exterior wall of Bldg 578. ACM siding is being removed and double bag within the work area. Flatbed pickup loads of bags and wrapped burritos are routinely transferred to the shipping container as it is collected.

J. Stone and S. Wakefield, NWDE collect soil samples from the North and East side of Bldg 579.

E. White, NWDE goes out to the R2 and vault area for additional consideration of possibly filling in the vault with concrete rip rap. Recent rain last night has accumulated considerable standing water on the East side of the taxi way, between the Fire house and R2 unit.

1000 – DBSI paints a Utility Locate for Bldg 578 and 579. Locate lines are on the North side of both buildings in orange paint in an East/West direction. Approximate location is shown below on the Site Map.

1100 – M. Amann, U.S. FWS and E. White travel to R2 vault to further evaluate the option to fill in the vault with debris. A determination is made that the vault is tied into the airport taxi way surface water drainage system. The drainage system is old and not clearly indicated onsite. The final conclusion is that the vault will not be filled in or altered by NWDE.

Iniki maintains progress in removing transite siding from the West side of Bldg 578.

1200 – Lunch.

J. Stone and S. Wakefield continue soil sampling East of Bldg 579. E. White gives additional inspection of the exterior of Bldg 578 and 579 in preparation for upcoming demolition.

1600 – J. Stone and S. Wakefield walk through interior of Bldg 579 first and second floors for inspection of the structure and wildlife. Interior at this time is free of birds.

1700 – End of Day. Iniki has removed approximately 50% lineal length of the West wall on Bldg 578, first and second story levels.

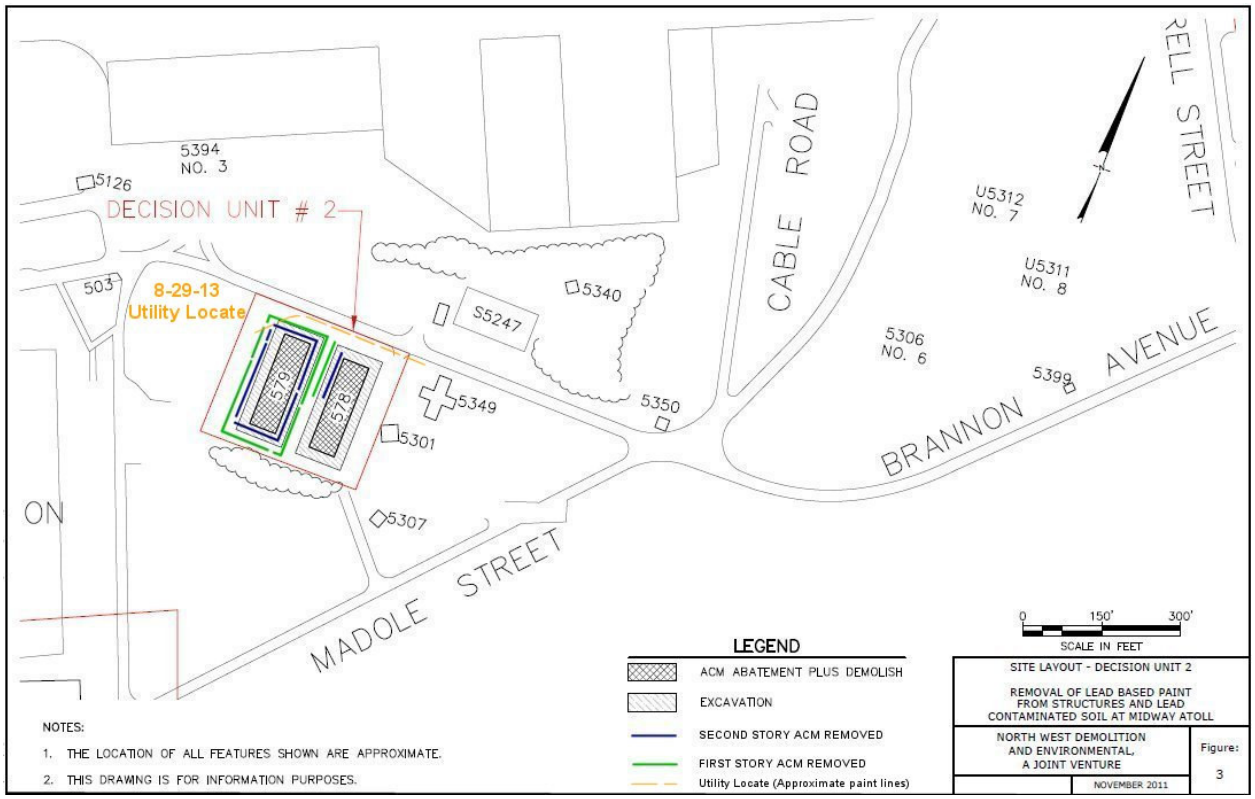
Photographs:

Photo 01: Bldg 579, North side Utility Locate.

Photo 02: Progress of Bldg 578 (west wall) ACM siding removal.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collected today for Bldg 579.

579-P3 (0-6)	579-P7 (0-6)	579-P10 (0-6)
579-P3 (12-18)	579-P7 (12-18)	579-P10 (12-18)
579-P3 (24-30)	579-P7 (24-30)	579-P10 (24-30)
579-P4 (0-6)	579-P7 (0-6) DUP	579-P10 (30-36)
579-P4 (12-18)	579-P7 (12-18) DUP	579-P11 (0-6)
579-P4 (24-30)	579-P7 (24-30) DUP	579-P11 (12-18)
579-P5 (0-6)	579-P8 (0-6)	579-P11 (24-30)
579-P5 (12-18)	579-P8 (12-18)	579-P12 (0-6)
579-P5 (24-30)	579-P8 (24-30)	579-P12 (12-18)
579-P6 (0-6)	579-P9 (0-6)	579-P12 (24-30)
579-P6 (12-18)	579-P9 (12-18)	579-P13 (0-6)
579-P6 (24-30)	579-P9 (24-30)	579-P13 (12-18)
-	-	579-P13 (24-30)

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, August 30, 2013
Prepared by: Scott Wakefield

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

Weather: Cloudy, morning rain, moderate wind, temperature 80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki 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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	175	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Rain and wind make for a slow morning. Iniki is making headway on the West wall on both levels, working towards the South end.

J. Stone and S. Wakefield, NWDE collect soil samples from the East and South side of Bldg 579.

The question arises if the wood lumber for Bldg 578 and 579 can be disposed of by burning rather than deposit this debris in the R2 since space is valuable. NWDE locates a manufacturer ink stamp on Bldg 579 exterior 2"x6" wall boards. Using the stamp info "Wolmanized. Protection Against Decay & Termites. Wauna 40" and the age of the barracks, NWDE determines the lumber is treated with common wood preservative of the era. Disposal by burning per the EPA requires a commercial incinerator.

1200 – Lunch.

NWDE and Iniki gather onsite for a HASP amendment of the treated wood encountered beneath the ACM siding and tar paper. A risk hazard assessment and proper PPE, material handling and disposal is discussed. Level D at a minimum for treated wood handling based on current project tasks. Iniki crew is at a higher Level C PPE for the asbestos abatement, thereby being properly protected for treated wood.

Iniki continues to work on the West side of Bldg 578 removing transite siding.

1300 – M. Amann, U.S. FWS advises by email to dispose of the treated wood from Bldg 578 & 579 into the R2 containment.

1630 – E. White, J. Stone and S. Wakefield look under Bldg 579 through the exterior foundation crawl space door access. Notes are made relating to the former underground building utilities that enter mid building, West side.

1700 – End of Day. Iniki has removed nearly 100% lineal length of the West wall on Bldg 578, first and second story levels. Work area on South end is beginning to be set up.

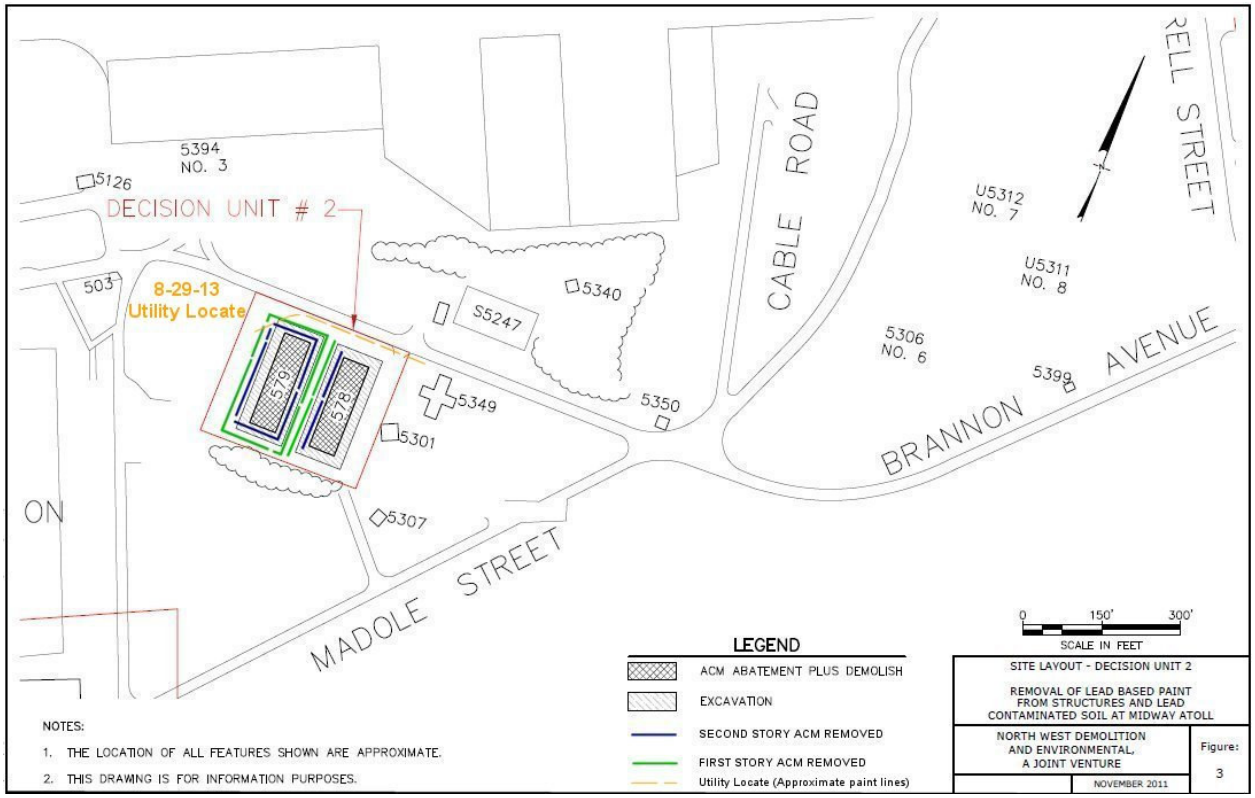
Photographs:

Photo 01: Bldg 579 treated lumber stamp.

Photo 02: Bldg 579 (left) and Bldg 578 progress at end of work day.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collected today for Bldg 579.

579-P14 (0-6)	579-P19 (0-6)	579-P22 (0-6) DUP
579-P14 (12-18)	579-P19 (12-18)	579-P22(12-18) DUP
579-P14 (24-30)	579-P19 (24-30)	579-P22 (24-30) DUP
579-P15 (0-6)	579-P19 (30-36)	579-P23 (0-6)
579-P15 (12-18)	579-P20 (0-6)	579-P23 (12-18)
579-P15 (24-30)	579-P20 (12-18)	579-P23 (24-30)
579-P17 (0-6)	579-P20 (24-30)	-
579-P17 (12-18)	579-P21 (0-6)	-
579-P17 (24-30)	579-P21 (12-18)	-
579-P18 (0-6)	579-P21 (24-30)	-
579-P18 (12-18)	579-P22 (0-6)	-
579-P18 (24-30)	579-P22(12-18)	-
-	579-P22 (24-30)	-

Note: 579-P16 not yet sampled due to establishing the extent of concrete slab.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, August 31, 2013
Prepared by: Scott Wakefield

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

Weather: Light winds, mostly sunny, temperature 82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki is progressing towards the South end of Bldg 578, working upper and lower levels. ACM siding is being removed within the work area and double wrapped in plastic.

J. Stone and S. Wakefield, NWDE collect soil samples from the West side of Bldg 579. After the last series of sampling points is gathered, 579-P16 is evaluated for placement near the concrete slab obstacles due South of the stairs on Bldg 579. A suitable point is found between the building stairs and the larger southern concrete slab.

S. Wakefield notes utility power locate on East side of Bldg 578. Line runs North/South to Bldg 5301 and is now indicated on the site map attached below.

1200 – Lunch.

Iniki works the South exterior wall of Bldg 578. The work area is also being prepped on the East side of the barracks for continuation of ACM siding removal.

1330 – Iniki has been continuing on South side of Bldg 578, upper and lower levels. Work area on East wall is set up and work is beginning on removing transite siding on the last long wall.

J. Stone and S. Wakefield lay out additional sample points on East and West side of Bldg 578. Continue soil sampling of these points.

1700 – End of Day. Iniki has removed ACM siding from South wall, first and second floors. East wall, top floor is approximately 10% removed. The day's collection of ACM materials are double bagged and transferred to a 20' shipping container in the staging area.

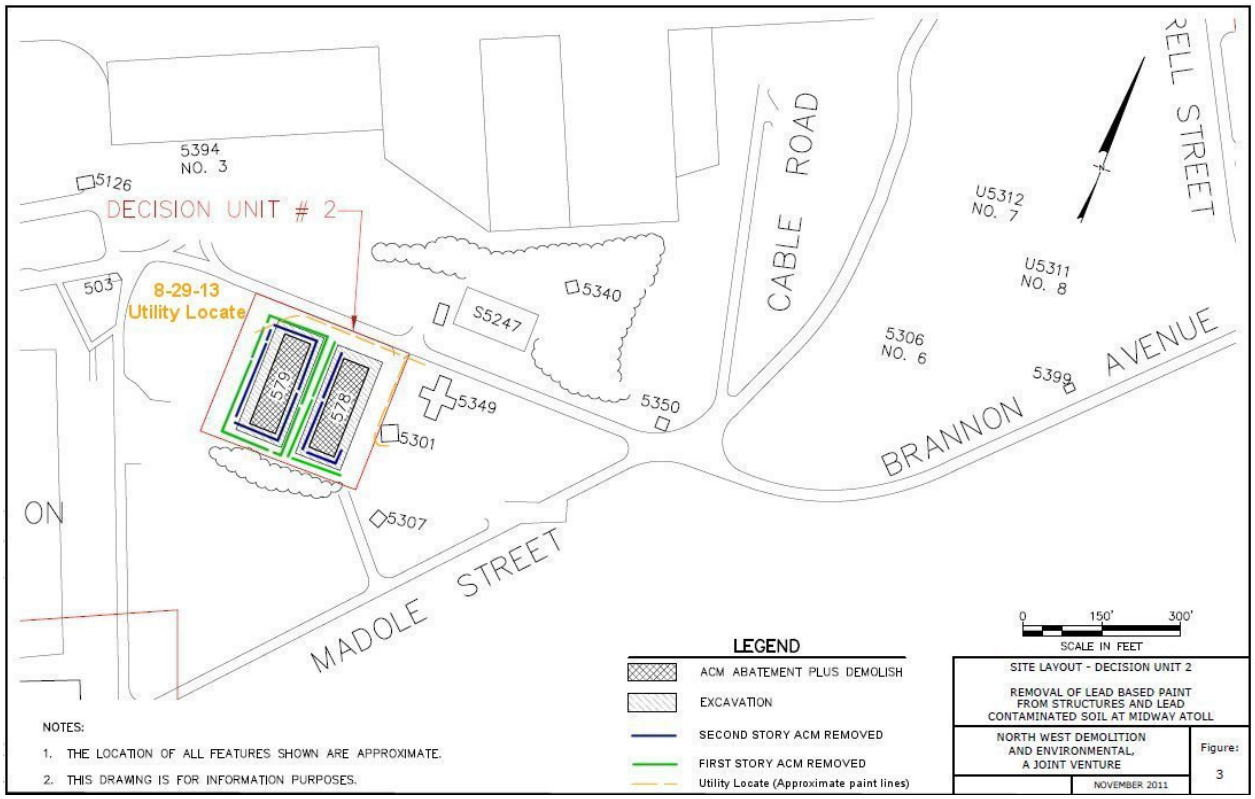
Photographs:

Photo 01: Bldg 578 long East wall and short North sections remaining for ACM siding removal next week.

Photo 02: Bldg 578 (right) at end of work day.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collected today for Bldg 579 & 578.

579-P16 (0-6)	579-P27 (0-6)	-
579-P16 (12-18)	579-P27(12-18)	-
579-P16 (24-30)	579-P27 (24-30)	-
579-P24 (0-6)	579-P27 (30-36)	-
579-P24 (12-18)	-	-
579-P24 (24-30)	578-P19 (0-6)	-
579-P25 (0-6)	578-P19 (12-18)	-
579-P25 (12-18)	578-P19 (24-30)	-
579-P25 (24-30)	578-P20 (0-6)	-
579-P26 (0-6)	578-P20 (12-18)	-
579-P26 (12-18)	578-P20 (24-30)	-
579-P26 (24-30)	-	-
-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 2, 2013
Prepared by: Scott Wakefield

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

Weather: Moderate winds, overcast, light showers, temperature 82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki crew's task for siding removal continues on the East wall, working towards the North on both story levels.

J. Stone and S. Wakefield, NWDE collect soil samples from the East side of Bldg 578.

1100 – Soil sampling on Bldg 578 is complete. Begin prepping area around Bldg 579 by picking up old sandbag remnants and tar paper above the shade cloth.

Iniki keeps progressing on the East side of Bldg 578, removing ACM siding and double wrapping the debris. Bagged materials are staged on the work area plastic for later transport to shipping container.

1200 – Lunch.

1430 – NWDE keeps progressing on re-bagging sand bags around Bldg 579 and picking up debris.

Iniki is removing ACM siding on the East side, first and second story. Making it past the half way mark on the last long wall, they also prep the North wall area for a work zone with cones, ribbon and poly liner.

1700 – End of Day. Iniki has removed 75% of the lineal length of transite siding from 578 East wall, first and second levels. Material on site that is double bagged and wrapped is transferred to the shipping container in the staging area with the flatbed truck.

NWDE has picked up sandbags and debris from around Bldg 579. The sun shade cloth remains around Bldg 579 secured with the over growth of grasses and steel spikes that restrain it in place.

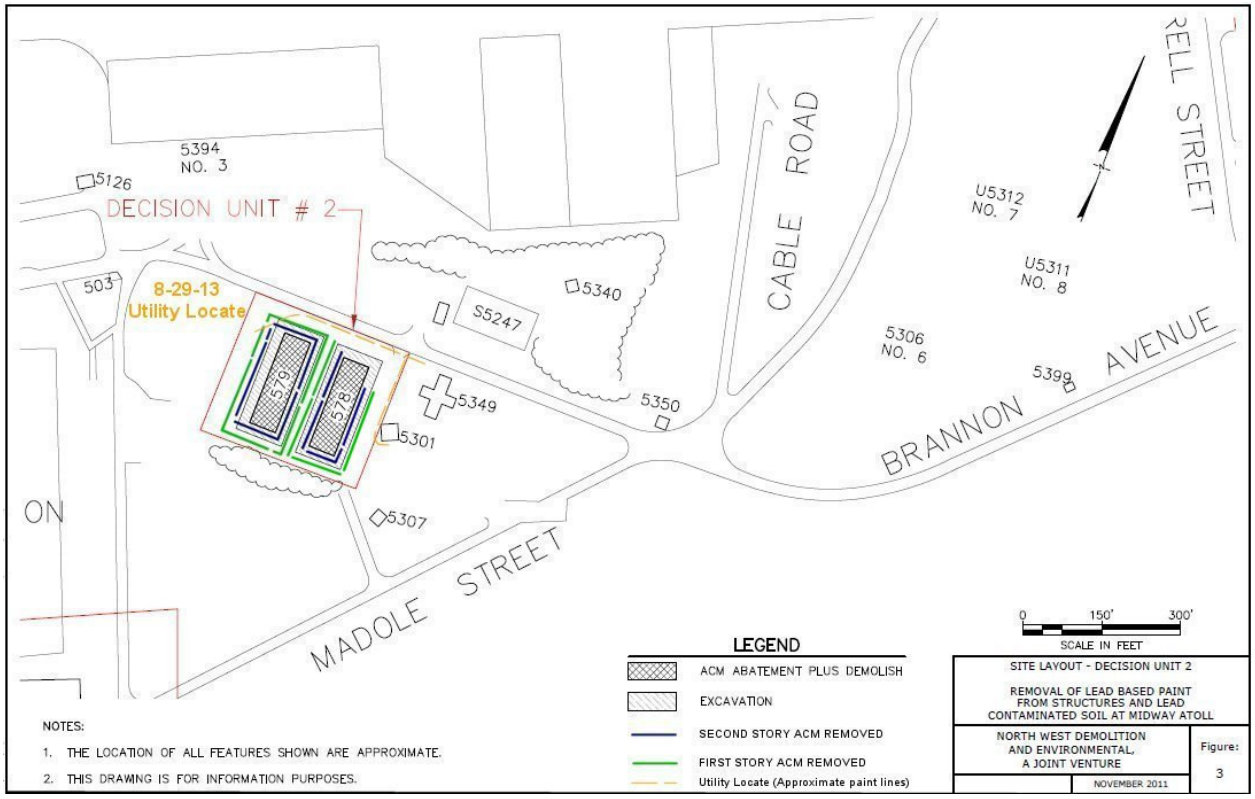
Photographs:

Photo 01: Bldg 578 showing remainder of ACM siding to remove near end of work day.

Photo 02: Bldg 578 (right) at the end of the day. Long wall faces East.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collected today for Bldg 578.

579-P13 (0-6)	579-P17 (0-6)	-
579-P13 (12-18)	579-P17(12-18)	-
579-P13 (24-30)	579-P17 (24-30)	-
579-P14 (0-6)	578-P18 (0-6)	-
579-P14 (12-18)	578-P18 (12-18)	-
579-P14 (24-30)	578-P18 (24-30)	-
579-P15 (0-6)	-	-
579-P15 (12-18)	-	-
579-P15 (24-30)	-	-
579-P16 (0-6)	-	-
579-P16 (12-18)	-	-
579-P16 (24-30)	-	-
-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 3, 2013
Prepared by: Scott Wakefield

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

Weather: Moderate winds, sunny, temperature 85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki focuses on removing the last exterior siding on Bldg 578. The East side abatement is nearly complete and the North wall work area is in place.

E. White and J. Stone, NWDE begins tasks associated with spraying Maectite onto Bldg 579 exterior.

S. Wakefield coordinates soil sample paperwork for export to analytical lab. P. Leary, U.S. FWS acting Refuge Manager and Anthony Palermo, U.S. FWS Supervisory Wildlife Inspector have both signed off to allow transporting the soil off island. Ship date will be Thursday, September 5, 2013.

1000 – Weekly Conference Call with mainland. Topics of scheduling, on site tasks and progress are updated. Refer to September 3, 2013 Midway Contractors Meeting Minutes for additional detail.

1030 – NWDE sprays Bldg 579 exterior with Maectite.

Iniki crew is progressing to the North wall of Bldg 578, first and second levels. Transite siding is removed and staged onsite. This wall is the last portion of the building for ACM siding removal.

1200 – Lunch.

1600 – NWDE moves 308 Mini-Excavator to Bldg 579 for first step of removing ground cloth. Sun shade cover is removed on West, South and half of East side by the end of the day.

Iniki transfers the double bagged ACM materials to the shipping container. The work area is picked up and a final walk around is completed by the end of the day. Completion of transite siding removal for Bldg 578 today and Bldg 579 last week brings the onsite structure ACM abatement task to a close.

1700 – End of Day.

Photographs:

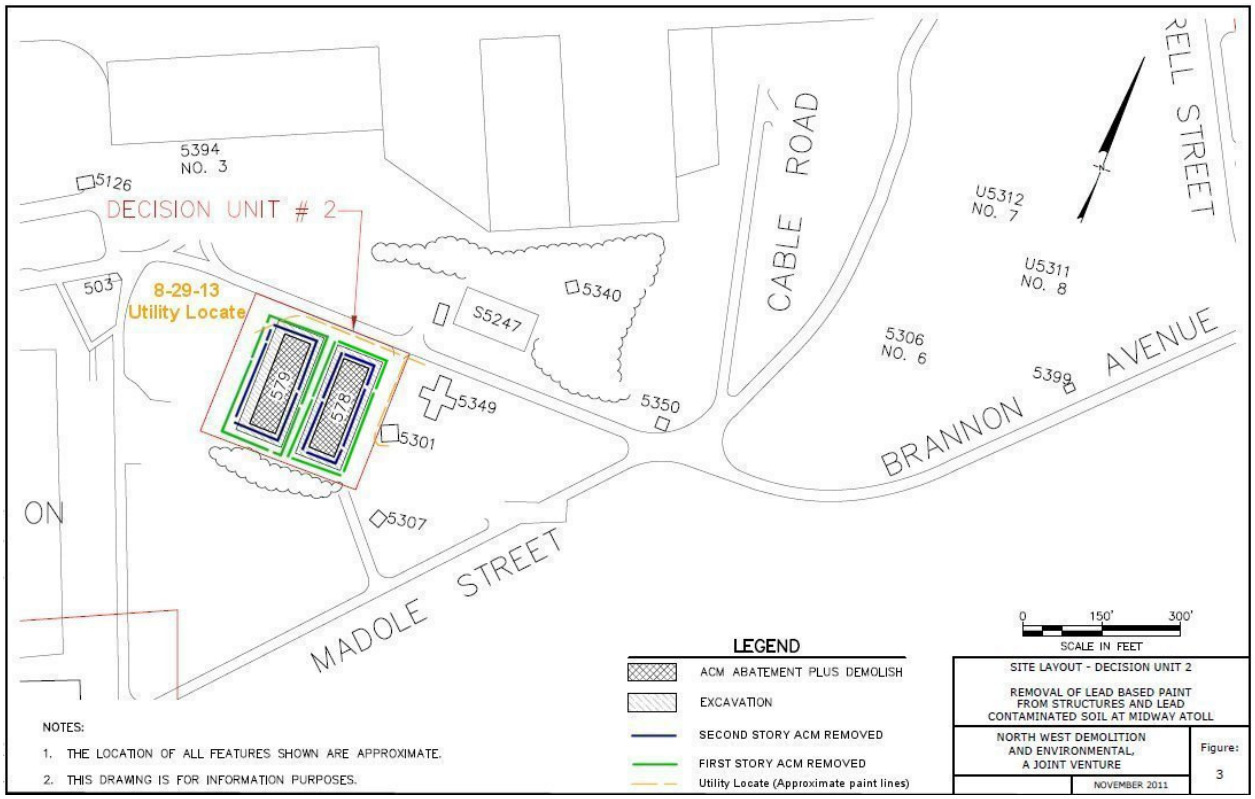
Photo 01: Bldg 578 (left) and Bldg 579 (right) at end of work day.

Photo 02: Bldg 578 ACM siding removal nearing completion.

Photo 03: Bldg 578 transite siding fully removed and work area clean of associated materials.

Site Map

Site map showing approximate lineal lengths of removed Asbestos Containing Material transite siding.



Soil Samples collection is complete. No sampling today.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 4, 2013
Prepared by: Scott Wakefield

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

Weather: Light winds, sunny, temperature 86F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Jeremy Kauw	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Derrick Butay	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Lauren Lewis	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Pete Leary	U.S. FWS
Donnie Evans	DBSI

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki crew mobilizes to the Sea Plane Hanger for lead abatement of the North wall. Equipment and supplies are taken to the work site and they begin setting up a work zone with poly sheeting, cones and warning tape.

E. White, NWDE and M. Amann, U.S. FWS determine with the Midway Fire Department that the R2 Test Burn can proceed this morning with favorable weather conditions. Fire Department will be available, but not onsite for test burn.
NWDE proceeds with setting up a small test pile on the south part of the entry ramp. This location is out of the water and away from the sun shade cloth in the cell. The pile is smaller than the prior attempted test burn as recommended by the Fire Department, approximately 48" diameter x 30" tall.
Air monitoring will be conducted upwind to the South and downwind to the North. Air sample cartridges will be tested for lead.

0950 – Air sampling pumps are started. The test wood pile is ignited using a small amount of diesel fuel. Fire watch will be continuous until conditions warrant otherwise.
M. Amann, U.S. FWS and P. Leary, U.S. FWS are onsite for project oversight and wildlife protection.

Iniki's progress on the Sea Plane Hanger wall is good. The work area and containment is in place and loose exterior coatings are scraped from the building. Maectite application to the wall and foundation will occur after lunch.

1200 – Lunch. Rotate personnel through lunch for test burn fire watch.

1330 – Test burn pile is reduced to very little flame or smoke. Winds have been low (<5mph). Air monitoring continues upwind and downwind of the burn.

At Bldg 579, NWDE disconnects the air conditioner heat exchanger and piping.

1545 – J. Stone, NWDE begins demolition of Bldg 579 on the South end of the structure. M. Amann, U.S. FWS and P. Leary, U.S. FWS provide project oversight and wildlife protection as the barracks is dismantled. E. White provides dust control using a hydrant and fire hose. Dust from the demo activities is low in volume. The crew works on the upwind side of the structure as they tear into it.

Iniki crew has made great headway doing a lead scrape and spraying the exterior North wall. The underside of the roof eve is also treated.

1700 – End of Day. R2 Test Burn pile is down to only a small amount of smoke and heat. Winds remain calm (<5 mph).

1915 – Fire watch check of R2 burn. Winds are still relatively calm. Air monitors are turned off, cartridges collected and an ash sample is set aside for allowing it to cool tonight before bagging it up.

Photographs:

Photo 01: Sea Plane Hanger Maectite application.

Photo 02: Bldg 579 demolition progress at the end of the work day.

Photo 03: R2 Test Burn wood pile.

Photo 04: R2 Test Burn pile.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 5, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 10 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	7
Gary Lewis	Iniki Supervisor	7
Dane Borero	Iniki Laborer	7
Kailialoha Kaawa	Iniki Laborer	7
Noah Wond	Iniki Laborer	7
Eric Alcosiba	Iniki Laborer	7
DJ Engoring	Iniki Laborer	7
Evan Esposito	Iniki Laborer	7

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

Iniki crew partially changes staff today with the routine flight to Midway. J. Kauw and D. Butay return to Honolulu as previously scheduled and five Iniki workers arrive to continue lead abatement and painting tasks. NWDE adds three workers arriving today. Personnel list above is updated to reflect current worker roster.

NWDE J. Stone and L. Lewis stay on the task of dismantling the southern end of Bldg 579. Wood and steel are sorted into piles as the structure is safely downsized into manageable pieces.

S. Wakefield, NWDE finalizes R2 Test Burn ash and soil samples collected since August 24, 2013 for Bldgs 578, 579 & 2404. Items are shipped from Midway to Honolulu on today's outbound Asheville Jet.

1200 – Lunch.

1300 – New arrivals attend the U.S. FWS orientation and cultural awareness presentation by P. Leary. Directly after the presentation, the site specific HASP is reviewed as a group for all 8 people.

NWDE continues pulling Bldg 579 apart. Steel piles are beginning to grow as the materials are sorted. Wood debris at this time remains placed on the existing floor level within the building footprint.

Iniki's D. Borero and K. Kaawa have remained on island. The task of prepping the Sea Plane Hanger for paint has been their focus of the day. By the end of the work day the wall and foundation are ready for paint. The work area remains in place for future painting activities.

1700 – End of Day.

Photographs:

Photo 01: View facing North, Bldg 579 at the end of the work day.

Photo 02: Sea Plane Hanger, prepping for paint.

Photo 03: 172 Soil samples shipped out today for analysis.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 6, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 10 MPH winds, afternoon showers, temperature 86F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0800 – NWDE D. Hard, J. Ordaz and L. Lewis prepare a work area for Volvo dump truck for moving steel from the South end. Petrel patrol tasks bring out 6 birds from burrows at the edge of the work zone. Shade cloth is secured as a path for tire traffic.
D. Hard continues operations on Bldg 579, sorting piles and transporting steel out to the bone yard NE of the Sea Plane Hanger.
J. Stone and R. West work on the Volvo 290 excavator. Water temperature is elevated in the engine.

0940 – Iniki's E. Esposito and N. Wond mask and paint the Sea Plane Hanger foundation and exterior eves with Lead Stop paint. Application is with both roller and spray gun equipment. G. Lewis assists with tasks between this site and the Midway Bowl site.

0945 – Iniki's D. Borero, K. Kaawa, E. Alcosiba and D. Engoring have the work area set up at the southern and eastern walls of the Midway Bowling Alley. 6 mil poly sheeting, cones and warning tape designate the lead abatement area. Lead scrape of the exterior walls begins.

1200 – Lunch.

1425 – 3 person NWDE team removes the shade cloth cover in Cell 2 of R2.

NWDE is using two excavators for continued demolition on Bldg 579 on the South end. The steel debris continues to be transported to the bone yard staging area. Wood debris remains stacked at the structure.

1640 –The Sea Plane Hanger foundation and underside of eves are approximately 90% complete with Lead Stop paint application by the Iniki crew.

Lead scrape tasks at the Bowling Alley have continued this afternoon. Lead debris is carefully collected and properly contained after being removed from the walls and covered walkway area.

1730 – End of Day.

Photographs:

Photo 01: Work area for lead scrape and painting tasks at Midway Bowl.

Photo 02: Loading steel into off road truck at Bldg 579 (right).

Photo 03: Sea Plane Hanger foundation and eves being painted with Lead Stop.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 7, 2013
Prepared by: Scott Wakefield

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

Weather: Partly cloudy, 10 MPH winds, showers, temperature 79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

0800 – NWDE D. Hard, J. Stone and L. Lewis inspect burrows surrounding the work area for Bldg 579. Work continues to reduce the structure into material piles.
E. White plans for the decontamination provisions for R2, Cell 2 when moving the off road trucks in with debris loads. Decon of the tires will be implemented when material hauling begins.

Iniki's E. Esposito and N. Wond are painting to finish the edges of the Sea Plane Hanger foundation and exterior eves. Some additional masking is applied to further touch up edges with the sprayer and brush.

Iniki's D. Borero, K. Kaawa, E. Alcosiba and D. Engoring scraped the Southwest wall and covered walkway yesterday. Now they are on the Southeast wall of the Midway Bowl, scraping paint in preparation for Lead Stop. Near lunch time the wall is nearly complete with scraping tasks. Lead chips are being collected and bagged. Lead waste is deposited in the 20' shipping container with Lead Warning signs.

1200 – Lunch.

1300 – The Iniki team is spraying paint on the walls and ceiling for the covered walkway. A portion of the crew is also working the back NE wall. It has been scraped and has Maectite applied like the Southwest and Southeast walls of the Midway Bowl.

1645 –NWDE maintains steady work on Bldg 579. Two excavators and operators coupled with one off road truck and driver continue to sort wood and steel out. Loads of steel are hauled to the bone yard. The haul road is routinely inspected for any loose debris through out the day.

Iniki has the largest part of the covered walkway walls and ceilings painted with Lead Stop. At the end of the day access is provided to allow the Weight Gym to be accessible on Sunday to island residents. Signs with times and dates are posted onsite and at the Clipper House indicating the temporary closure.

NWDE has reduced approximately 45 feet of the first and second floors to segregated material piles. The walls and roof for half of Bldg 579 have been safely taken down to the ground.

1730 – End of Day.

Photographs:

Photo 01: Bldg 579 at the end of the work day.

Photo 02: Midway Bowl Bldg 259 covered walkway with Lead Stop paint applied.

Photo 03: Sea Plane Hanger with Lead Stop paint applied.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
09/08/13	-	-	-	-	-	-	-
09/09/13	-	-	-	-	-	-	-
09/10/13	-	-	-	-	-	-	-
09/11/13	-	-	-	-	-	-	-
09/12/13	-	-	-	-	-	-	-
09/13/13	-	-	-	-	-	-	-
09/14/13	-	-	-	-	-	-	-
09/15/13	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
09/22/13	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
09/29/13	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
09/02/13	0	0	0	0	0
09/03/13	0	0	0	0	0
09/04/13	0	0	0	0	0
09/05/13	0	0	0	0	0
09/06/13	0	0	8	0	0
09/07/13	0	0	10	0	0

Table 4. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	-	-
09/10/13	-	-
09/11/13	-	-
09/12/13	-	-
09/13/13	-	-
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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.

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 9, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 10 MPH winds, temperature 83F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	202 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE crew inspects the work area at the barracks for Petrels. Bldg 579 will continue to be dismantled by the three man team, J. Stone, D. Hard and L. Lewis.
J. Ordaz and R. West, NWDE load up two totes of hydrant water, pump and generator to set up at the R2 ramp for the upcoming tire decon tasks.

Iniki's E. Esposito and N. Wond are painting Lead Stop on Bldg 259. This task is a continuation from Saturday as they progress around Midway Bowl. G. Lewis, D. Borero, K. Kaawa, E. Alcosiba and D. Engoring are masking and preparing the NE wall of 259 for Lead Stop paint ahead of the spray team.

1040 – E. White and S. Wakefield, NWDE check the haul road and steel piles at the bone yard. The steel loads continue to be brought in from Bldg 579. NWDE plans to bring an excavator over later to condense the steel pile so that less room will be taken up on the concrete apron.

1200 – Lunch.

1300 – The Iniki paint spraying crew progresses to the NE wall of Bldg 579. This back wall of the building is being covered with Lead Stop paint.
Expansion of the work area begins for the SW wall of 2404 All Hands Club complex. Placement of poly sheeting, cones and Lead Warning tape commence. Scraping tasks for this concrete block wall are not as intense as the wooden Midway Bowl walls since the existing paint is in better condition at Bldg 2404.

1400 – S. Wakefield and R. West, NWDE places reference tee posts around Bldg 578 & 579, outside of excavation limits for locating the foundation corners of each building once they are removed.

1450 – The last standing section of Bldg 579 is pulled down to the ground. NWDE continues to reduce this portion of the building materials into separate piles. Steel is loaded and hauled out to the stockpile at the bone yard area.

1525 – Iniki crew has applied Maectite to SW wall of Bldg 2404 and prepares it further for Lead Stop. Three workers are also beginning to expand the work area for Bldg 2404. This includes the NW exterior wall that joins the outside concrete patio of the All Hands Club.
Lead Stop paint has been sprayed on Bldg 259 NE wall, approximately three quarters of the wall length.

1700 – NWDE continues sorting out metal and wood debris for Bldg 579. The foundation and steel floor supports will be removed once the bulk of wood debris is moved to the R2.
NWDE has accessed the R2, Cell 2 and leveled out the settling low spots in preparation for placing non burnable wood from Bldg 579 & 578. The even grade will aid in placing debris more uniformly.

Iniki has completed the bulk spraying of three walls on Bldg 259 with Lead Stop. Trim and touch up work remains in some areas. The breeze way wall of Bldg 259 remains to be prepped and painted. Iniki schedules to work this area at a time that does not conflict with supplies arriving this week for the store.

1730 – End of Day.

Photographs:

Photo 01: Bldg 579 near the end of the work day has been brought down.

Photo 02: Bldg 2404 (left) and Bldg 259 (right) during lead abatement & paint activities.

Photo 03: R2, Cell 2 prepared for inbound wood debris from Bldg 579.

Photo 04: Steel material from Bldg 579 is stockpiled in the bone yard.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	44	0	0
09/10/13	-	-	-	-	-	-	-
09/11/13	-	-	-	-	-	-	-
09/12/13	-	-	-	-	-	-	-
09/13/13	-	-	-	-	-	-	-
09/14/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	-	-
09/11/13	-	-
09/12/13	-	-
09/13/13	-	-
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	-	-			
09/11/13	-	-	-	-	-
09/12/13	-	-	-	-	-
09/13/13	-	-	-	-	-
09/14/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 10, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 5-10 MPH winds, temperature 82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	8 gallons	Cans

Description of Work:

0700 – NWDE conducts safety meeting.

0900 – NWDE prepares to move wood debris from Bldg 579 to the R2, Cell 2. J. Stone, D. Hard and L. Lewis will handle the loading and hauling to the R2. J. Ordaz and R. West have set up the Maectite spray equipment for treating the LBP covered wood prior to loading.

Iniki is beginning the exterior paint top coat on Bldg 259 Midway Bowl. The areas previously covered with Lead Stop will be painted with the top coat. E. Esposito and N. Wond continue to be the spray team.
D. Borero and K. Kaawa are beginning to prepare the SE wall of 2404 work area. A significant effort is made in digging Petrels out on this side of the building, since shade cloth is not present here.
E. Alcosiba and D. Engoring are preparing Bldg 2404 on the patio wall around to the front entry. Lead scrape and Maectite application tasks are underway.

1000 – Weekly Conference Call with mainland. Topics of scheduling, on site tasks and progress are updated. Refer to September 10, 2013 Midway Contractors Meeting Minutes for additional detail.

1200 – Lunch.

NWDE maintains progress in spraying Bldg 579 wood debris with Maectite. Materials are loaded into the off road truck and dumped into the R2, Cell 2.

Iniki is still on task at Bldg 259 and 2404. Work continues the same as this morning with painting Bldg 259 walls. Likewise Bldg 2404 is prepared with a work area expansion to the SE wall, lead scrape and Maectite activities on all exterior walls.

1400 – M. Amann, U.S. FWS, G. Lewis, Iniki and S. Wakefield, NWDE discuss the DU9 aspect of the lead abatement project. A loop around the Island as an initial look at the potential collection of LBP structures and sources is made this afternoon.

1640 – Iniki has applied Maectite and prepped nearly all of Bldg 2404. A small amount of prep remains near the Midway Barber Shop store front. Bldg 259 top coat exterior paint has been applied over the Lead Stop areas, covering the three major walls. Touchup areas still remain for the top coat.

NWDE made good progress in treating and transferring wood from Bldg 579 to the repository. The East portion of the wood pile has been reduced. Additionally, the Northern end of the foundation is cleaning up well, having no pile of wood or steel remaining in the 20' near the main concrete stairs.

1700 – End of Day.

Photographs:

Photo 01: View facing West of Bldg 579, Northern end. Wood removed and steel floor beams exposed.

Photo 02: Bldg 259 (right) with exterior paint top coat over the Lead Stop.

Photo 03: R2, Cell 2. Maectite treated wood debris from Bldg 579.

Photo 04: Copper flashing off Bldg 579 is stockpiled separately in the bone yard.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	44	0	0
09/10/13	0	25	10	0	79	0	0
09/11/13	-	-	-	-	-	-	-
09/12/13	-	-	-	-	-	-	-
09/13/13	-	-	-	-	-	-	-
09/14/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	-	-
09/12/13	-	-
09/13/13	-	-
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	0	0	3 steel 1 copper	0	15
09/11/13	-	-	-	-	-
09/12/13	-	-	-	-	-
09/13/13	-	-	-	-	-
09/14/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 11, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 5 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	175 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE will continue treating and hauling wood debris from Bldg 579. D. Hard and L. Lewis will be loading and dumping the material. J. Ordaz and R. West continue to treat the LBP debris with Maectite.
The morning Petrel patrol check at the work area is performed for active burrows.
J. Stone has completed decon of the second excavator tracks and moves over into the R2, Cell 2 for managing the wood debris.

0830 – N. Wond begins spraying Lead Stop on the SE wall of Bldg 2404 and E. Esposito assists. G. Lewis brings in supplies and paint for today's tasks.
E. Alcosiba and D. Engoring have prepared a work area for the Midway Store breezeway. The existing paint on these walls is in decent condition being out of the direct weather. The breezeway is taped and Maectite applied to prepare for Lead Stop paint. Paint activities will be scheduled around the Store supplies being delivered this week.
D. Borero, K. Kaawa and D. Engoring prepare a work area on the northwestern high wall of the theater, Bldg 259. Poly sheeting is placed after Petrel patrol tasks. Cones and Lead Warning tape are in place.

1000 – M. Amann, U.S. FWS, G. Lewis, Iniki and S. Wakefield, NWDE work on determining the extent of DU9 structures and other LBP covered objects on the island. Existing records from the Navy and maps are compared to what was visually looked at on yesterday's field inspection.

1200 – Lunch.

NWDE brings in a second off road truck for hauling Bldg 579 wood to the R2. Both trucks continue moving Maectite treated wood to the repository. In the R2, wood is placed along the North wall approximately 16 feet wide and the full length (East/West) of Cell 2. An additional row of wood is placed along Cell 2's East wall. This row is 26' wide and runs full length (North/South) of Cell 2. The wood is placed evenly in two lifts. Each lift of wood is compacted with the Volvo 290 excavator tracks. By the end of the day, the wood debris average depth is 34" with significant compaction and size reduction.

1320– Iniki has progressed to cover the SE and SW walls of Bldg 2404 with one coat of Lead Stop paint. Crew also continues prepping the NW wall of the theater with lead scraping and Maectite.

1330 – M. Amann, U.S. FWS, G. Lewis, Iniki and S. Wakefield, NWDE go out for additional field verification on DU9 LBP structures compared to written Navy Table 5-6, maps and prior field notes.

1620 – Iniki has applied Maectite to the breezeway and 80% of the NE exterior wall of the theater.
Bldg 2404 All Hands Club has one coat of Lead Stop paint applied on all four walls.

NWDE has treated and moved approximately 70% of Bldg 579 wood to the R2.

1730 – End of Day.

Photographs:

Photo 01: View East- R2, Cell 2. Wood debris progress from Bldg 579.

Photo 02: View East- R2, Cell 2. Wood debris progress from Bldg 579 after compaction.

Photo 03: Bldg 579 wood debris in R2, Cell 2. Note density and breakup of material.

Photo 04: View East- Bldg 579 wood debris (foreground) near the end of the day.

Photo 05: View West- Bldg 2404 patio (right) as Lead Stop paint is applied.

Photo 06: View West- Bldg 2404 patio (right) with Lead Stop paint applied.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	-	-	-	-	-	-	-
09/13/13	-	-	-	-	-	-	-
09/14/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	-	-
09/13/13	-	-
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	0	0	3 steel 1 copper	0	15
09/11/13	0	0	0	0	32
09/12/13	-	-	-	-	-
09/13/13	-	-	-	-	-
09/14/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 12, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 5-10 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	181 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE will continue treating and hauling wood debris from Bldg 579. D. Hard and L. Lewis will be loading and dumping the material. J. Ordaz and R. West continue to treat the LBP debris with Maectite.
Bird burrows are checked at the work site prior to beginning.
J. Stone will continue managing wood distribution in the R2, Cell 2. He also manages the decon tire station for the off road Volvos.

0800 – N. Wond begins spraying exterior finish coat paint on the SE wall of Bldg 2404. He is working the same path around the All Hands Club as yesterday with the Lead Stop coating.
E. Esposito and. G. Lewis assist with loading paint and moving paint equipment.
E. Alcosiba and D. Engoring are using the JLG Manlift to access the upper story level of Bldg 259. They will continue on lead scrape prep and Maectite application.
D. Borero and K. Kaawa are working to prep the lower floor and East covered porch area on Bldg 259. They are taping and scraping loose lead paint prior to Maectite spraying.

1020 – NWDE keeps progressing to haul the final major pile of Bldg 579 wood into the R2. The North wall of the R2 is where LBP wood is being dumped and distributed.

1115 – Iniki has 60% of Bldg 2404 painted with top coat paint.
Work on Bldg 259 theater West side upper and lower levels continue. The theater is approximately 40% prepped for paint at this time. Multiple shed roofs account for slower progress and increased footage of lead based paint covered surfaces.

1200 – Lunch.

Iniki continues prep on both story levels of Bldg 259 NE structure.
Bldg 2404 is painted with the exterior top coat paint on all four sides of the building. Mask is being pulled off and touch up work is being done.

NWDE keeps hauling the wood debris pile from Bldg 578 into the repository. The North and West walls of the R2 are being filled in the same manner as yesterday, keeping an even thickness of material compacted down.

1420 – Iniki has prepped and painted the NE and NW foundation ends on the Sea Plane Hanger. These short lengths of foundation wall have been scraped and had Maectite applied. One coat of Lead Stop is painted on the concrete foundation. Paint touch up on the Northern wall is also inspected again.

1700 – Bldg 579 has the major wood debris pile removed from the building site. Approximately 50% of the steel floor beams remain in a skeleton concrete foundation for the building. This material and the large concrete stairs on the North and South ends of where Bldg 579 once stood will be removed soon.

Iniki has done a lead scrape and applied Maectite on the SE front of Bldg 259 for the first and second story levels with all the windows. The underside of the covered porch has also been treated.

1730 – End of Day.

Photographs:

Photo 01: View Southeast- Bldg 579 (right) wood removed, Bldg 578 (left).

Photo 02: View Northeast- R2, Cell 2. 95% of wood progress from Bldg 579.

Photo 03: Sea Plane Hanger, short foundation walls painted with Lead Stop.

Photo 04: Eastern section of Bldg 259, lead scrape and Maectite prep.

Photo 05: Bldg 2404 All Hands Club entry with Lead Stop paint.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	0	169	0	0
09/13/13	-	-	-	-	-	-	-
09/14/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	-	-
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	0	0	3 steel 1 copper	0	15
09/11/13	0	0	0	0	32
09/12/13	0	0	0	0	31
09/13/13	-	-	-	-	-
09/14/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 13, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 10 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	20 gallons	Cans

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE inspects Petrel burrows for birds at the work site. Job tasks today include removing the remaining floor sections of steel and wood from Bldg 579. D. Hard and L. Lewis will be loading and dumping the material. Steel will go to the bone yard and wood debris to the R2, Cell 2. J. Ordaz and R. West continue to treat the LBP debris with Maectite and pick up loose materials within the work area.

Iniki is working on Bldg 259 near the Theater entrance. Scraping the high areas is handled from the man lift. The underside of the porch cover is scrapped by D. Borero and K. Kaawa. Bldg 2404 area is also being touched up for paint and picked up to minimize the work area. G. Lewis, N. Wond and E. Esposito stay on task with the touch up on both Bldg 2404 and 259 Midway Bowl section.

0900 – J. Stone and S. Wakefield, NWDE decon the Volvo excavator prior to leaving the R2. Jevon goes to the bone yard and pushes up the loads of steel on the concrete apron to make room for additional material.

1000 – Iniki is adding in the green trim paint to the Midway Bowl lettering and upper roof facia. Some sections of posts and handrails under the covered walkway have also received green trim paint.

1200 – Lunch.

Iniki continues scraping prep on Bldg 259 for the covered theater entrance. The work area is also expanded to the East wall of the theater, directly behind the movie screen. This tall wall is beginning to have the poly sheeting work area placed around the foundation for abatement tasks.

NWDE is picking up the remaining debris around Bldg 579 foundation from the demolition activities.
Bldg 578 demolition task will begin soon. The ground floor level wood is sprayed with Maectite on the exterior walls and painted concrete foundation.

1415 – NWDE moves the two Volvo excavators over to Bldg 578. Dismantling begins for the last barrack structure in DU2. The excavators are positioned on the southern end and work towards the north on both story levels. Steel and wood are separated into large piles as the walls, roof and floors are torn down. A fire hose is in use for dust control on the demolition. Shade cloth surrounding Bldg 578 is still in place, but sandbags are being picked up in preparation to move the cloth as needed.
The mini excavator is working in nearby Bldg 579, picking and piling debris from within the former foundation.

1600 – Bldg 578 is readily becoming a debris pile as the wood walls and steel framing are safely broken apart and brought down into segregated material piles. Approximately 18% of the structure is torn down.

Iniki crew made progress to include scrape and Maectite spray of the covered theater porch entry and the large East wall opposite the movie screen. This brings prep progress for the theater to nearly 75% for this area of Bldg 259. The SE wall near the Tailor Shop remains to be prepared for a work area. DBSI will be removing two trees tomorrow as planned to open the area up for abatement work.

1730 – End of Day.

Photographs:

Photo 01: Bldg 259 theater entrance covered walkway. Lead scrape complete on LBP surfaces.

Photo 02: View North- Midway Bowl green trim paint added on roof facia and sign.

Photo 03: Bldg 579 steel stacked at the bone yard.

Photo 04: View Northeast- The south end of Bldg 578 being dismantled.

Photo 05: View East- Bldg 578 at the end of the day.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	-	-
09/15/13	Sunday	-
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	0	0	3 steel 1 copper	0	15
09/11/13	0	0	0	0	32
09/12/13	0	0	0	0	31
09/13/13	0	0	5	0	9
09/14/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 14, 2013
Prepared by: Scott Wakefield

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

Weather: Overcast skies, 10 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	79 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE is continuing the demolition tasks for Bldg 578. After a Petrel patrol of the area, D. Hard and J. Stone work together in two excavators to remove steel beams and posts from the upper and lower floor levels. Wood and steel is being staged on the footprint of the building as it is pulled down.
J. Ordaz, R. West and S. Wakefield remove sandbags and shade cloth from the R2, Cell 4 in preparation for treated soil that will come in from the barracks in the future.

1000 – Iniki is working on Bldg 259 NW area of the theater. N. Wond and D. Engoring are taping and masking the building in preparation for Lead Stop application.
G. Lewis, D. Borero and K. Kaawa are setting up a new work area on nearby Bldg 2403. Poly sheeting, cones and Lead Warning tape are in place to begin the lead scraping work for the exterior walls of this one story building. E. Alcosiba is working at lead scrape and Maectite spraying on the LBP walls.
E. Esposito is painting more green trim work on the Midway Bowl hand railing, posts and fascia trim.

1100 – NWDE is making good progress on Bldg 578. The two excavators have reached the mid point of the structure, sorting wood and steel.

1200 – Lunch.

Iniki stays on task for mask and tape of the windows on the upper level of Bldg 259.
Part of the crew is also working around Bldg 2403 with continued lead scrape and Maectite spray on the exterior walls and underside of the LBP roof eves.

1300 – NWDE is running two off road Volvo trucks with salvaged steel to the bone yard. The material is dumped on the concrete apron along side of the steel pile from Bldg 579.

1615 – Iniki finishes final touch up of the Sea Plane Hanger foundation wall and picks up the work area.

Bldg 578 is actively being worked on to haul the steel out and stockpile wood. Approximately 75% of the steel has been separated out of the structure debris, primarily the larger I-beams supports.

1700 – The Iniki crew progress on Bldg 2403 is approximately 75% for lead scrape and Maectite application. The NE wall has not been prepared yet for paint.

1730 – End of Day.

Photographs:

Photo 01: View South- Bldg 578 (left) Bldg 579 (right, removed).

Photo 02: View East- Bldg 578 (background) Bldg 579 (foreground, removed) at the end of the day.

Photo 03: View Northeast- Bldg 2403 lead scrape tasks.

Photo 04: View Northeast- Bldg 259, northwest section. Mask and tape for paint.

Photo 05: View Northeast- Bldg 2403, southeast section. Lead scrape task.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	0	0	10	0	209	0	0
Sunday	0	0	0	0	209	0	0
09/16/13	-	-	-	-	-	-	-
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	0	0
09/15/13	Sunday	0
09/16/13	-	-
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/09/13	0	0	16 steel 1 copper	0	0
09/10/13	0	0	3 steel 1 copper	0	15
09/11/13	0	0	0	0	32
09/12/13	0	0	0	0	31
09/13/13	0	0	5 steel	0	9
09/14/13	0	0	25 steel	0	0

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 16, 2013
Prepared by: Scott Wakefield

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

Weather: Cloudy skies, 15-20 MPH winds, temperature 82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	206 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE checks the Petrel activity prior to work. Tasks will continue for Bldg 578 to included moving steel to the bone yard, treat LBP wood with Maectite and haul it to the R2, Cell 1 repository. D. Hard and J. Stone operate excavators while R. West and L. Lewis each drive an off road truck. The wood going into the R2 will be dumped inside on the ramp of the R2 and then pushed out with the mini excavator. This removes the Volvo tires from contacting the treated muddy soil present due to Sunday's rain fall.
J. Ordaz applies Maectite to Bldg 578 wood debris before it is loaded out.

Iniki's N. Wond, E. Alcosiba and D. Engoring are preparing Bldg 259 theater wall that is within the court yard near the Tailor Shop. The work area is placed prior to scraping lead and spraying Maectitie to treat the exterior wall. The high wall elevations are accessed using the JLG lift.
D. Borero and K. Kaawa are working on Bldg 2403 to finish the northern wall prep. Lead scrape tasks are followed by LBP debris collection and bagging of the material.

1000 – Weekly Conference Call with mainland. Topics of scheduling, on site tasks and progress are updated. Refer to September 16, 2013 Midway Contractors Meeting Minutes for additional detail.

1100 – Inbound plane for this morning has been postponed until tentatively tomorrow.
NWDE continues to pull wood debris being off loaded into the R2, Cell 1 with the mini excavator. Two trucks continue to haul treated wood in from Bldg 578.
Iniki continues abatement of the theater area on Bldg 259. Mask and taping prep for paint also continues on the multi-pane windows under the covered porch west of the theater entrance.

1200 – Lunch.

1415 – NWDE Volvo excavator operated by D. Hard is shut down due to an engine code alarm. Determination of the failure is pending, but initial indicators point to an engine fuel pump fault. The machine will not be operated until parts/repair are made available. NWDE actively works to get parts shipped in on this weeks plane.

1430 – NWDE Volvo excavator operated by J. Stone has a hydraulic hose leak start on the thumb circuit. A repair is made and operations resume by 1445.

1630 – The Iniki crew stays on task, picking up debris and LBP waste. LBP debris is bagged, sealed and transferred to the 20' shipping container. The container has warning signs on its doors indicating Lead Warning and hazards of the LBP bags stored inside.

1700 – Bldg 259 is nearly prepared on all exterior walls for Lead Stop paint. Painting will begin tomorrow.
NWDE has removed approximately 25% of the wood debris stockpile from Bldg 578.

1730 – End of Day.

Photographs:

Photo 01: View South- Bldg 578 (left) Bldg 579 (right, removed).

Photo 02: View East- Bldg 578 (background) Bldg 579 (foreground, removed) at the end of the day.

Photo 03: View North- Bldg 578 steel and treated wood debris being loaded out.

Photo 04: Bldg 578 & 579 steel scrap metal stockpiled in the bone yard.

Photo 05: View West- Bldg 259 courtyard lead scrape and Maectite spray tasks.

Photo 06: View West- Bldg 2403, lead scrape and Maectite spray.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	0	0	10	0	209	0	0
Sunday	0	0	0	0	209	0	0
09/16/13	0	30	15	0	254	0	0
09/17/13	-	-	-	-	-	-	-
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	0	0
09/15/13	Sunday	0
09/16/13	0	0
09/17/13	-	-
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	-	-	-	-	-
09/18/13	-	-	-	-	-
09/19/13	-	-	-	-	-
09/20/13	-	-	-	-	-
09/21/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 17, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 10 MPH winds, temperature 84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	10 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
The airport advises that two planes will land this morning. NWDE is required to not haul into the R2 from 0800-1200.

NWDE checks the Petrel burrows at the work area prior to operating machinery. Tasks shift this morning due to not being able to haul into the R2. J. Stone operates an excavator on the east side of Bldg 578, prepping and treating material rows with Maectite. Additional steel conduits and metal trim continue to be separated from the debris pile. J. Ordaz applies Maectite to the LBP wood. R. West tends partially to the Maectite and the off road truck for loading up steel. L. Lewis fuels off road trucks and stages trucks for loading, as well as operating the fire hose for dust control of the debris pile as it is worked. D. Hard performs preventative maintenance on equipment not in use this morning.
Excavator parts are on order and will arrive this week on the Thursday G2 jet.

Iniki sets up to paint Bldg 259 theater area with a first coat of Lead Stop paint. N. Wond, and D. Engoring manipulate the JLG lift to paint the high eves and east wall of the theater.
E. Alcosiba is applying mask and tape to Bldg 2403 for the upcoming paint spray work.
E. Esposito is working touch up paint for Bldg 2404 All Hands Club, including the metal entry door.
D. Borero and K. Kaawa finish off mask and tape on the theater entrance area.

0802 – USAF C130 lands at MDY.
1012 – Smaller blue/white twin engine plane lands at MDY.
1031 – USAF C130 departs from MDY.
1140 – Smaller blue/white twin engine plane departs MDY. R2 access is granted for NWDE to operate and haul to the repository.

1145 – Iniki has the east wall square footage of the theater approximately 50% sprayed. Tape and mask of the windows and misc items continues on Bldg 259 and 2403. Clean up of the work area and LBP debris continues around both buildings.

NWDE begins hauling Maectite treated wood into the R2, Cell 1. The mini excavator is in use to move the debris inside of the cell. Two off road trucks are backing up to the ramp and dumping the loads inside the R2 onto the ramp. Decon is no longer necessary when leaving the R2 since tires do not contact treated soil/mud and accounts for increased productivity.

1200 – Lunch.

1400 – Bldg 578 materials within the building footprint are being loaded from the east side of the structure. Using one excavator, its reach is approximately half the width of the barracks. The treat, load and hauling work progresses the length of the foundation from south to north, removing the debris. Approximately 45% of the total debris pile on Bldg 578 footprint has been hauled to the R2.

1500 – G. Lewis, Iniki and S. Wakefield, NWDE travel a grid to further define DU9 structures, hydrants and other LBP coated objects on the island.

1700 – Bldg 259 theater building has approximately 45% coverage on exterior walls and eves. Work area is being picked up and cleaned of LBP debris for the day.

1730 – End of Day.

Photographs:

Photo 01: View South- Bldg 578.

Photo 02: View East- Bldg 578 (background) Bldg 579 (foreground, removed) at the end of the day.

Photo 03: View East- R2, Cell 1 wood from Bldg 578 & 579.

Photo 04: View West- Bldg 259 courtyard Lead Stop paint on theater wall.

Photo 05: View Southeast- Bldg 259 theater wall with Lead Stop paint being applied.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	0	0	10	0	209	0	0
Sunday	0	0	0	0	209	0	0
09/16/13	0	30	15	0	254	0	0
09/17/13	0	20	0	0	274	0	0
09/18/13	-	-	-	-	-	-	-
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	0	0
09/15/13	Sunday	0
09/16/13	0	0
09/17/13	0	0
09/18/13	-	-
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	0	0	3 steel	0	21
09/18/13	-	-	-	-	-
09/19/13	-	-	-	-	-
09/20/13	-	-	-	-	-
09/21/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 18, 2013
Prepared by: Scott Wakefield

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

Weather: Sunny, 20 MPH winds, temperature 86F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 3.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	195 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE J. Stone remains operating an excavator on the east side of Bldg 578. J. Ordaz applies Maectite as wood material is worked over. R. West operates one off road truck, L. Lewis the second off road truck. D. Hard receives treated materials into the R2, Cell 2 and is using the DBSI D6H dozer for moving and compacting debris in an even layer approximately 36" deep across the entire cell footprint.
NWDE is using Iniki's pressure washer for applying Maectite today.

Iniki is still spraying Lead Stop on to Bldg 259 for the theater exterior walls. N. Wond, and D. Engoring are using the JLG lift to paint the high eves and west wall of the theater. D. Borero, K. Kaawa and E. Alcosiba are laying and taping poly sheeting to prepare the breezeway for paint tasks. E. Esposito is working touch up paint for Bldg 2404 All Hands Club, including signs.

0905 – NWDE moves to the south west corner of Bldg 578 and continues to treat, load and haul wood debris into the R2, Cell 2.
NWDE receives approval to abate Bldg 2404 patio wall that is behind the All Hands Club.

1100 – Iniki has made good progress on the west wall of the theater. Spray and backroll of the Lead Stop paint continues as the work area moves around the building.

1200 – Lunch.

1330 – NWDE progress has reached approximately 65% of the total debris pile moved to the R2. Work direction is still progressing from the south end headed north.

1400 – G. Lewis, Iniki and S. Wakefield, NWDE travel the remaining grid to further define DU9 structures, hydrants and other LBP coated objects on the island.

1640 – Bldg 259 theater building has approximately 75% coverage on exterior walls and eves. The south west covered porch area is being sprayed on the ceiling for the exposed beams with Lead Stop paint.

1700 – NWDE task for Bldg 578 wood debris removal has reached approximately 80%. Two thirds of the floor I-Beams remain and will be pulled out once the wood debris is treated and hauled to the R2.

Today is S. Wakefield's last full day for field oversight. M. Schott will arrive tomorrow late morning at Midway to continue DU2 and DU4 tasks.

1730 – End of Day.

Photographs:

Photo 01: View South- Bldg 578 progress on east footing area.

Photo 02: View East- Bldg 578 (background) Bldg 579 (foreground, removed) at the end of the day.

Photo 03: View West- R2, Cell 1 wood from Bldg 578 & 579.

Photo 04: View South- Bldg 259 theater wall with Lead Stop applied.

Photo 05: View Northeast- Bldg 259 theater wall with Lead Stop paint applied.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	0	0	10	0	209	0	0
Sunday	0	0	0	0	209	0	0
09/16/13	0	30	15	0	254	0	0
09/17/13	0	20	0	0	274	0	0
09/18/13	0	50	0	0	324	0	0
09/19/13	-	-	-	-	-	-	-
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/23/13	-	-	-	-	-	-	-
09/24/13	-	-	-	-	-	-	-
09/25/13	-	-	-	-	-	-	-
09/26/13	-	-	-	-	-	-	-
09/27/13	-	-	-	-	-	-	-
09/28/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-
09/30/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	0	0
09/15/13	Sunday	0
09/16/13	0	0
09/17/13	0	0
09/18/13	0	0
09/19/13	-	-
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	0	0	3 steel	0	21
09/18/13	0	0	3 steel 1 copper	0	26
09/19/13	-	-	-	-	-
09/20/13	-	-	-	-	-
09/21/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 19, 2013
Prepared by: Michael Schott

Project: Abatement of Asbestos, 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 Winds, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	Leaves island
Michael Schott	NWDE Field Oversight	Arrives on island
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Dane Borero	Iniki Laborer	Leaves island
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
Eric Alcosiba	Iniki Laborer	Leaves island
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	112 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.

NWDE resumes sorting through debris and hauling out debris from Bldg 578 demolition.

Iniki resumes painting Bldg 259.

0730 – Scott Wakefield records measurements of material in place in the R2 unit for volume calculations.

~1000 – G2 plane arrives on island. Mike Schott arrives on island and attends a brief orientation..

~1100 – G2 plane leaves island. Scott Wakefield, Eric Alcosiba and Dane Borero leave island.

1200 – Lunch.

1300 – NWDE resumes hauling out debris from Bldg 578 demolition. NWDE J. Stone remains operating an excavator on the east side of Bldg 578. J. Ordaz applies Maectite as wood material is worked over. R. West operates one off road truck, L. Lewis the second off road truck. Water is used for dust suppression during loading. D. Hard receives treated materials into the R2, Cell 2 and is using the NWDEs mini-Excavator and DBSIs D6H dozer for moving and compacting debris in an even layer.

1430 – Iniki has completed applying Lead Stop for Bldg 259. N. Wond and D. Engoring are preparing to apply the top / finish coat to all surfaces of the breezeway. K Kaawa and E. Esposito and applying Lead Stop to the CMU block wall surrounding the patio on the east side of Bldg 2404.

1630 – Iniki (N. Wond and D. Engoring) continues to apply the top / finish coat to all surfaces along the west wall of Bldg 259. Iniki continues applying Lead Stop to the CMU block wall surrounding the patio on the east side of Bldg 2404.

1650 – NWDE continues loading demolition debris out of Bldg 578. Treated wood is being hauled to the R2 unit. Steel is being hauled to the project's metal stockpile / lay down area near the Sea Plane Hanger (Bldg 151). Approximately 90% of the wood and steel have been removed.

1730 – End of Day.

Photographs:

Photo 01: View NE corner of Bldg 578 - Treating painted wood with Maectite during sorting / loading process.

Photo 02: View along west wall of Bldg 578 – Loading out debris with dust suppression.

Photo 03: View west wall of Bldg 259 – Applying Lead Stop.

Photo 04: View NW corner of Bldg 259 – Applying Lead Stop.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/03/13	0	10	0	0	10	0	0
09/04/13	0	0	0	0	10	0	0
09/05/13	0	0	0	3	13	0	0
09/06/13	0	0	10	0	23	0	0
09/07/13	0	0	10	0	33	0	0
Sunday	0	0	0	0	33	0	0
09/09/13	0	0	10	0	43	0	0
09/10/13	0	25	10	0	78	0	0
09/11/13	0	30	15	0	123	0	0
09/12/13	0	30	15	1	169	0	0
09/13/13	0	5	15	0	189	0	0
09/14/13	0	0	10	0	209	0	0
Sunday	0	0	0	0	209	0	0
09/16/13	0	30	15	0	254	0	0
09/17/13	0	20	0	0	274	0	0
09/18/13	0	50	0	0	324	0	0
09/19/13	0	20	5	0	349	0	0
09/20/13	-	-	-	-	-	-	-
09/21/13	-	-	-	-	-	-	-
Sunday	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/01/13	0	0
09/02/13	0	0
09/03/13	0	0
09/04/13	0	0
09/05/13	0	0
09/06/13	0	0
09/07/13	0	0
09/08/13	Sunday	0
09/09/13	0	0
09/10/13	0	0
09/11/13	0	0
09/12/13	0	0
09/13/13	0	0
09/14/13	0	0
09/15/13	Sunday	0
09/16/13	0	0
09/17/13	0	0
09/18/13	0	0
09/19/13	0	0
09/20/13	-	-
09/21/13	-	-
09/22/13	Sunday	-

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	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	0	0	3 steel	0	21
09/18/13	0	0	3 steel 1 copper	0	26
09/19/13	0	0	6 steel-	0-	20-
09/20/13	-	-	-	-	-
09/21/13	-	-	-	-	-

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 20, 2013
Prepared by: Michael Schott

Project: Abatement of Asbestos, 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 Winds with a brief light rain shower in the afternoon, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 1.0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE and Iniki conduct a joint safety meeting.

0830 – Iniki (D Engoring) is re-masking and re-taping windows on the second floor (using the aerial lift) on the west wall of Bldg 259. N Wond continues spraying the top / finish coat on the first floor along the west wall. G Lewis, E Esposito and K Kaawa are touching up the paint and cleaning up at the CMU patio wall on the east side of Bldg 2404.

0905 – NWDE (J Stone and L Lewis) continue loading out demolition debris from Bldg 578 and 579. J Ordaz and R West are servicing the second excavator. D Hard is at the R2 unit placing and compacting waste in the active cell.

1130 – J Stone and L Lewis are loading out clean loads of concrete from Bldgs 578 and 579. J Ordaz and R West are preparing for Maectite application by removing remaining shade cloth and starting to establish a working “grid”.

1145 – Iniki (N Wond and D Engoring) are spraying top / finish coat along the north wall of Bldg 259. E Esposito and K Kaawa are cleaning up around Bldg 2404.

1200 – Lunch.

1230 – NWDE (J Ordaz and R West) resume laying out a working grid for pending Maectite application. Demolition debris removal continues. D Hard continues receiving and placing waste in the R2 unit.

1520 – Iniki (K Kaawa) is using the pressure washer to clean up along the west side of Bldg 259 to allow access to the Weight Room and to the breezeway (to the Library and Store). E Esposito and G Lewis are painting trim along the west wall Bldg 259. N Wond and D Engoring continue painting the top / finish coat along the north facing wall of Bldg 259.

1530 – NWDE continues hauling demolition debris and preparing the area for a working grid in anticipation of Maectite treatment.

1730 – End of Day.

Photographs:

Photo 01: View north side of Bldg 259 – Painting Top / finish coat.

Photo 02: View along west side of Bldg 259 – Painting trim and details.

Photo 03: View NE corner of Bldg 578 – Hauling out demolition debris continues.

Photo 04: View SW corner of Bldg 579 – Continue hauling out demolition debris.

Photo 05: View east side of R2 Unit – Compacting demolition debris from Bldgs 578 / 579 in active cell.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/16/13	0	30	15	0	254	0	0
09/17/13	0	20	0	0	274	0	0
09/18/13	0	50	0	0	324	0	0
09/19/13	0	20	5	0	349	0	0
09/20/13	0	0	0	0	349	0	0
09/21/13	-	-	-	-	-	-	-

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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
	Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/16/13	0	0
09/17/13	0	0
09/18/13	0	0
09/19/13	0	0
09/20/13	0	0
09/21/13	-	-

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	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	0	0	3 steel	0	21
09/18/13	0	0	3 steel 1 copper	0	26
09/19/13	0	0	6 steel	0	20
09/20/13	4	5	1 steel 1 copper	0	3
09/21/13	-	-	-	-	-

Daily Field Report

Date: Saturday, September 21, 2013
Prepared by: Michael Schott

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

Weather: Mostly Cloudy, Light Winds, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10
Evan Esposito	Iniki Laborer	Flies off island

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE conducts a safety meeting.

0815 – Iniki (N Wond and D Engoring) continuing to apply the top / finish coat along the backside of the theatre at Bldg 259.

0830 – NWDE (J Stone and L Lewis) is preparing equipment for Maectite application. J Ordaz, R West and D Hard are at the R2 unit removing the shadecloth from the eastern 2 cells in anticipation of receiving treated sand.

~1030 G2 plane arrives.

~1145 G2 plane departs.

1200 – Lunch.

1305 – NWDE (J Ordaz and R West) apply full strength Maectite at a rate of 0.75 gallons/CY. Maectite is being applied within the established grid system consistent with Geosyntec's Excavation Plan received 9/20/13. Maectite is being applied evenly within each grid cell. J Stone and L Lewis follow the Maectite treatment immediately with mixing the treated sand with the rake implement to a maximum lift depth of 1.5 feet. Mixing to homogeneity/ uniformity is occurring with continuous wetting with water.

1335 – Iniki is complete with painting the top / finish coat at Bldg 259. Iniki is moving / staging equipment for painting Bldg 2403. Iniki is cleaning up around Bldg 259.

1500 – NWDE is preparing for Maectite application on the south side of Bldgs 578 and 579 and along the west side of Bldg 579. Preparations include removing shadecloth, leveling out the area, establishing a working grid, checking petrels and laying shadecloth for a working, clean road surface.

1600 – NWDE resumes Maectite application along the south side of Bldgs 578 and 579.

1730 – End of Day.

Photographs:

Photo 01: View east side of Bldg 578 – Maectite application.

Photo 02: View east side of Bldg 578 – Maectite application.

Photo 03: View east side of Bldg 578 – Mixing to uniformity with continuous wetting.

Photo 04: View NW corner of Bldg 259 – Cleaning up after completion of top coat.

Photo 05: View back side of theatre Bldg 259 – Top coat complete.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
09/16/13	0	30	15	0	254	0	0
09/17/13	0	20	0	0	274	0	0
09/18/13	0	50	0	0	324	0	0
09/19/13	0	20	5	0	349	0	0
09/20/13	0	0	0	0	349	0	0
09/21/13	397	0	0	0	746	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.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
	Cargo Pier Source Area	Total to Date in DU2 (cyd)
09/16/13	0	0
09/17/13	0	0
09/18/13	0	0
09/19/13	0	0
09/20/13	0	0
09/21/13	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.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
09/16/13	0	0	2 steel	0	23
09/17/13	0	0	3 steel	0	21
09/18/13	0	0	3 steel 1 copper	0	26
09/19/13	0	0	6 steel	0	20
09/20/13	4	5	1 steel 1 copper	0	3
09/21/13	0	0	0	0	0

Daily Field Report

Date: Monday, September 23, 2013
Prepared by: Michael Schott

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

Weather: Mostly Cloudy, Calm, Humid, Temperature ~86F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 1.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Mogas	0 gallons	

Description of Work:

0700 – NWDE and Iniki conduct a joint safety meeting.

0815 - NWDE (J Ordaz and R West) resume applying full strength Maectite at a rate of 0.75 gallons/CY. Maectite is being applied within the established grid system consistent with Geosyntec's Excavation Plan received 9/20/13. Maectite is being applied evenly within each grid cell. Immediately following the application, mixing the treated sand occurs to homogeneity/ uniformity with continuous wetting with water.

D Hard begins excavating treated sand along the south side of Bldgs 578 and 579. L Lewis is checking the grade as excavation proceeds.

0905 – Iniki is de-masking the windows at Bldg 259.

1000 – Weekly project conference call attended by M Schott, E White, G Lewis and Mary Ann Amann.

1200 – Lunch.

1245 – NWDE resumes Maectite application and excavation of treated soils. J Stone is excavating while D Hard and L Lewis operate the off-road trucks. M Schott checks grade. E White receives sand in the R2 unit and begins to place concrete stockpiled from last year in a lift.

1250 – Iniki (N Wond and D Engoring) is touch up painting on Bldg 2404. G Lewis and K Kaawa are moving equipment to Bldg 643.

1615 – N Wond continues touch up painting on Bldg 2404. G Lewis and K Kaawa are setting up and staging materials and equipment at Bldg 643.

1630 – NWDE continues with Maectite application and excavating and hauling treated sand from DU2 to the R2 unit.

1730 – End of Day.

Photographs:

Photo 01: View west side of Bldg 259 – De-masking building following abatement / painting.

Photo 02: View west side of Bldg 579 – Loading out treated sand.

Photo 03: View west side of Bldg 579 – Excavating treated sand.

Photo 04: View east side of R2 unit – Decontamination of Off road truck exiting R2 unit..

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0

Daily Field Report

Date: Tuesday, September 24, 2013
Prepared by: Michael Schott

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

Weather: Partly to Mostly Cloudy, Light Wind, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 2.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	160 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

0830 - NWDE (J Ordaz and R West) resume applying full strength Maectite at a rate of 0.75 gallons/CY. Maectite is being applied in between Bldgs 578 and 579 within an established grid system. Maectite is being applied evenly within each grid cell. Immediately following the application, mixing the treated sand occurs to homogeneity/ uniformity with continuous wetting with water.

M Schott and J Stone are excavating in lifts along the west side of Bldg 578. L Lewis and D Hard are loading out treated sand and hauling it to the R2 Unit. Sand is stockpiled along the west side of Bldg 579.

0950 – G Lewis, D Engoring and K Kaawa (Iniki) are at Bldg 643 starting to clean out debris (interior) and sweeping up paint chips (interior) in preparation for abatement and painting. N Wond is at Bldg 259 continuing touch up painting.

1200 – Lunch.

1400 – NWDE continues excavating along the south side of Bldgs 578 / 579. Treated sand is hauled to the R2 Unit. J Ordaz and E White are receiving and placing material in the R2 unit. J Ordaz removes the scrap steel from the active cells.

1500 - G Lewis, D Engoring and K Kaawa (Iniki) continue at Bldg 643. Iniki is running 2 sample air pumps today. N Wond continues touch up painting at Bldg 259.

1730 – End of Day.

Photographs:

Photo 01: View of Bldg 259 – Touch up painting.

Photo 02: View SE cell of R2 Unit – Placing treated sand.

Photo 03: View west side of Bldg 578 – Excavating treated sand along south side of Bldgs 578 / 579.

Photo 04: View of Bldg 643 – Cleaning debris out prior to abatement.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

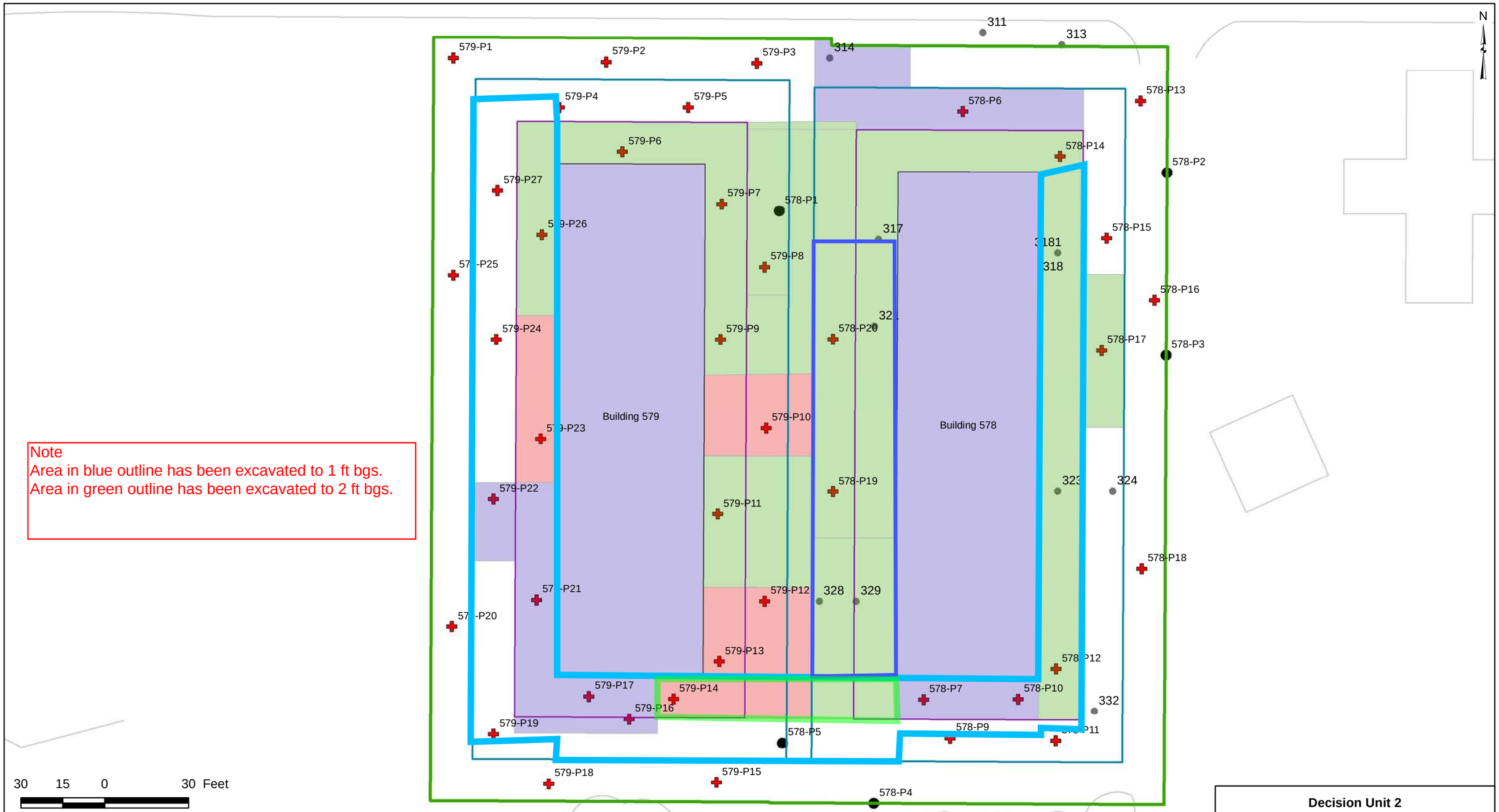
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0
9/24/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.



Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2

Decision Unit 2 and 4 Soil Sampling
Midway NWR

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Portland, OR | September 2013

Figure **3c**

Daily Field Report

Date: Wednesday, September 25, 2013
Prepared by: Michael Schott

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

Weather: Partly to Mostly Cloudy, Light Wind, Temperature ~86F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Jevon Stone	NWDE Operator	10
Dave Hard	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Richard West	NWDE Operator	10
Lauren Lewis	NWDE Operator	10
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 2.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	108 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

0830 - NWDE (D Hard and L Lewis) is loading out treated sand from the east side of Bldg 578. J Ordaz and R West are applying full strength Maectite at a rate of 0.75 gallons/CY on the west side of Bldg 579. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water. M Schott and J Stone are excavating treated sand south behind Bldg 579 consistent with the Excavation Plan received 9/24.

0930 – Iniki (K Kaawa and D Engoring) are cleaning out debris and removing loose paint chips from the second story at Bldg 643. DBSI is assisting with hauling debris off. N Wond continues touch up painting at Bldg 259.

1200 – Lunch.

1300 – NWDE is applying Maectite along the east side of Bldg 578. Treated sand is being hauled to the R2 unit from in between the two buildings. Excavation of treated sand continues along the east side of Bldg 579. E White is at the R2 unit receiving the treated sand and spreading ash from burning the wood from the SKI Warehouse into a lift in the SW cell.

1615 – Iniki (D Engoring and K Kaawa) continue on tasks on the second story at Bldg 643. Iniki reports abatement began on a portion of the first floor, Bldg 643 today. Iniki painted Bldg 2403 with Lead Stop this afternoon. Iniki reports a “walk around” inspection of Bldg 259 and 2404 was held with USFWS project representative. A few minor corrections are required.

1730 – End of Day.

Photographs:

Photo 01: View of SE cell in R2 Unit – Placing treated sand.

Photo 02: View in between Bldg 578 and 579 – Excavating and loading out treated sand.

Photo 03: View south side of Bldg 643 – Abatement of Interior in progress.

Photo 04: View of west side of Bldg 2403 – Lead Stop applied to all sides.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840
9/25/13	194	0	0	0	1617	450	1290

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

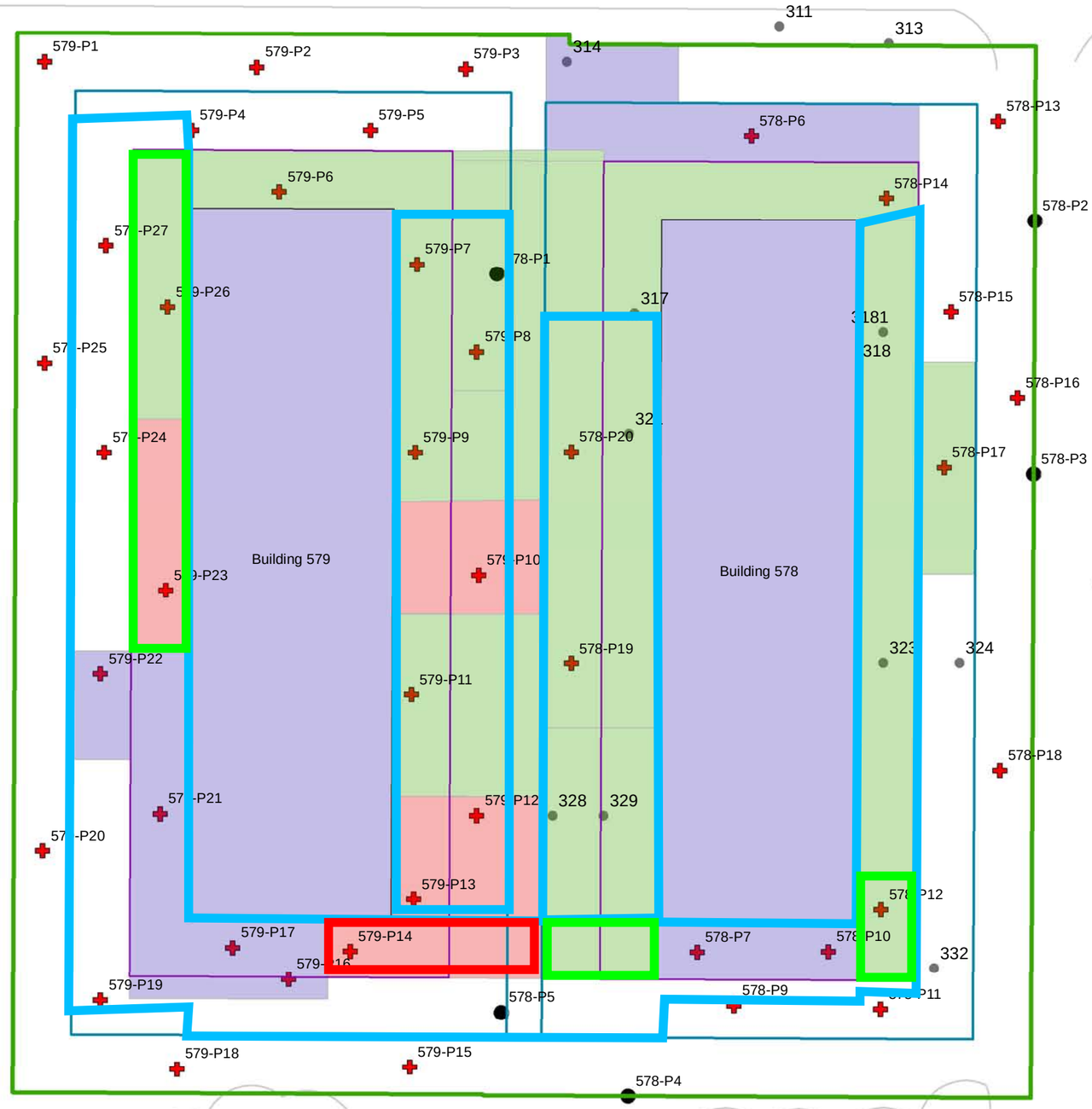
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
	Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0
9/24/13	0	0
9/25/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0
9/25/13	0	0	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location
2013 Sample Location
Historic Sample Location
Site Features

Excavation Depth (ft)
1.0
2.0
3.0

15-ft Sample Buffer
30-ft Sample Buffer
45-ft Sample Buffer

Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure
3c

Daily Field Report

Date: Thursday, September 26, 2013
Prepared by: Michael Schott

Project: Abatement of Asbestos, 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 to calm, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Kailialoha Kaawa	Iniki Laborer	Flies off island today
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 2.4

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	232 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

0945 – NWDE (J Ordaz and R West) are applying full strength Maectite at a rate of 0.75 gallons/CY in between Bldgs 578 and 579. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water. M Schott and J Stone are excavating treated sand along the east side of Bldg 578 consistent with the Excavation Plan received 9/24. D Hard and L Lewis are loading out treated sand from the west side of Bldg 578.

1015 – Iniki (D Engoring and N Wond) are painting the top / finish coat along the west side of Bldg 2403.

1200 – Lunch.

1430 – NWDE continues applying Maectite in between the buildings, excavating and hauling treated sand to the R2 Unit. D Hard periodically uses the dozer at the R2 unit to grade out the treated sand into lifts.

Suspected transite pipe and ACM is located during the excavation process and within the footprint of Bldg 578. The material is temporarily placed on and cover in plastic sheeting at the jobsite. The project USFWS representative is notified.

1500 – Iniki has completed painting Bldg 2403. N Wond and D Engoring are de-masking the west side of Bldg 2403.

1730 – End of Day.

Photographs:

Photo 01: View of west side of Bldg 2403 – Painting top / finish coat.

Photo 02: View of west side of Bldg 2403 – Painting top / finish coat.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840
9/25/13	194	0	0	0	1617	450	1290
9/26/13	350	0	0	0	1967	405	1695

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

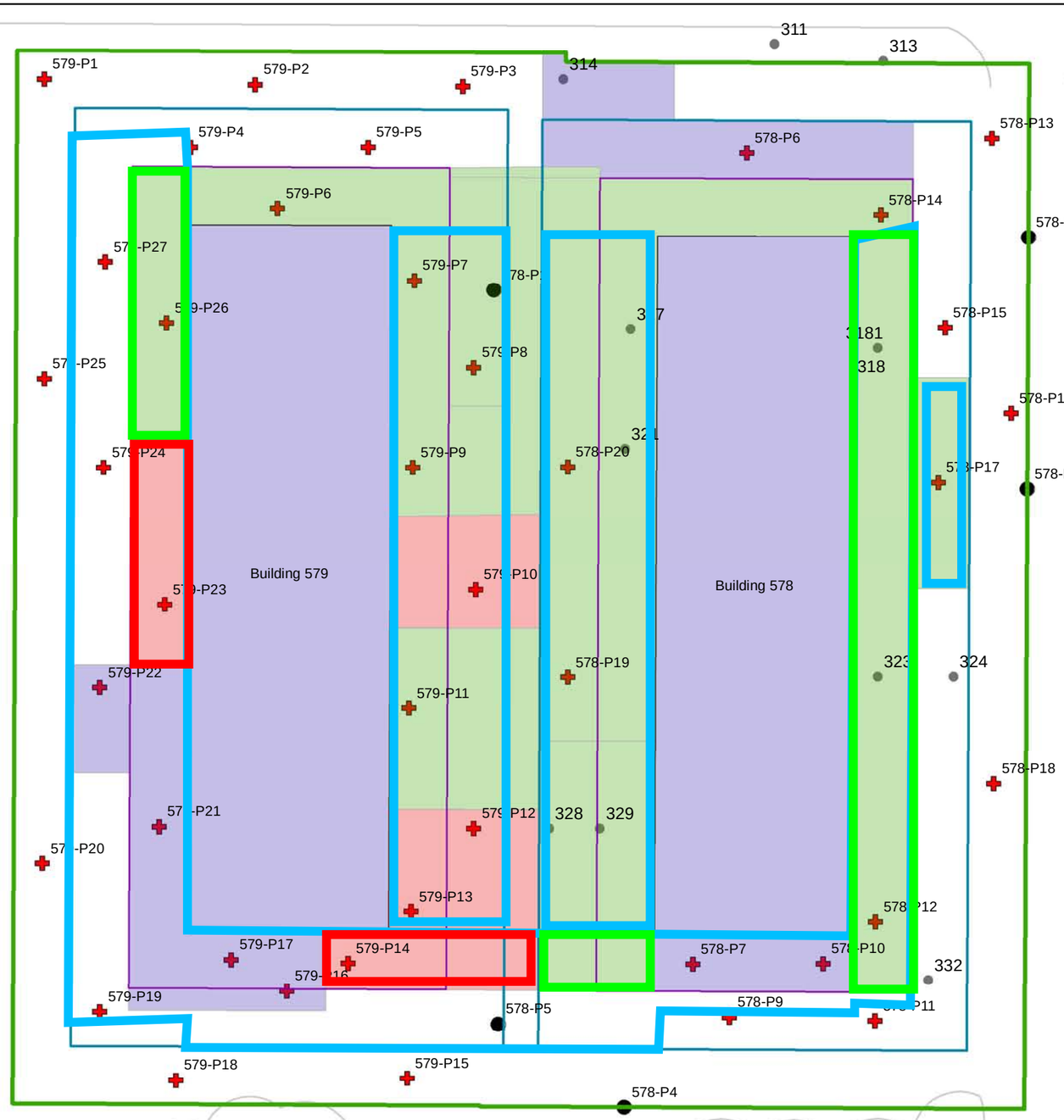
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	Total to Date in DU2 (cyd)
	Cargo Pier Source Area	
9/23/13	0	0
9/24/13	0	0
9/25/13	0	0
9/26/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0
9/25/13	0	0	0	0	0
9/26/13	0	0	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	Notes: Total excavation volume = 2,703.4 cy

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure **3c**

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 27, 2013
Prepared by: Michael Schott

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

Weather: Overcast to Partly Cloudy, Medium Winds, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 2.2

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	78 gallons	
Gasoline	9.6 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

0905 – Iniki is cleaning up around Bldg 2403. Iniki is moving debris and equipment to the staging area or Bldg 643 as necessary.

1000 – NWDE (J Ordaz and J Stone) are demolishing the concrete foundation wall at Bldg 578. Shadecolth was put down in advance to protect the surrounding excavation base. Small debris is hand picked up at the edge of the building and shadecloth. D Hard and L Lewis continue loading out and hauling treated sand from in between the two buildings. R West is establishing a grid network within the footprint of Bldg 579 in advance of applying Maectite.

1200 – Lunch.

1400 – A plane is expected to arrive at 1430. NWDE is temporarily prevented from hauling material to the R2 unit.

1500 – Iniki (D Engoring and N Wond) are cleaning up equipment at Bldg 2403.

1545 – The plane leaves. Hauling can resume.

1615 – NWDE (J Stone and L Lewis) are loading out concrete debris from Bldg 578 for disposal in the R2 unit. D Hard is receiving material at the R2 unit and smoothing out previously hauled piles of treated sand. J Ordaz and R West are applying full strength Maectite at a rate of 0.75 gallons/CY from within the footprint of Bldg 579. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water.

1730 – End of Day.

Photographs:

Photo 01: View of east side of Bldg 578 – Applying Maectite.

Photo 02: View of east side of Bldg 578 – Demolishing concrete foundation wall.

Photo 03: View of north side of Bldg 578 – Loading out concrete.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840
9/25/13	194	0	0	0	1617	450	1290
9/26/13	350	0	0	0	1967	405	1695
9/27/13	303	0	0	0	2270	360	2055

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

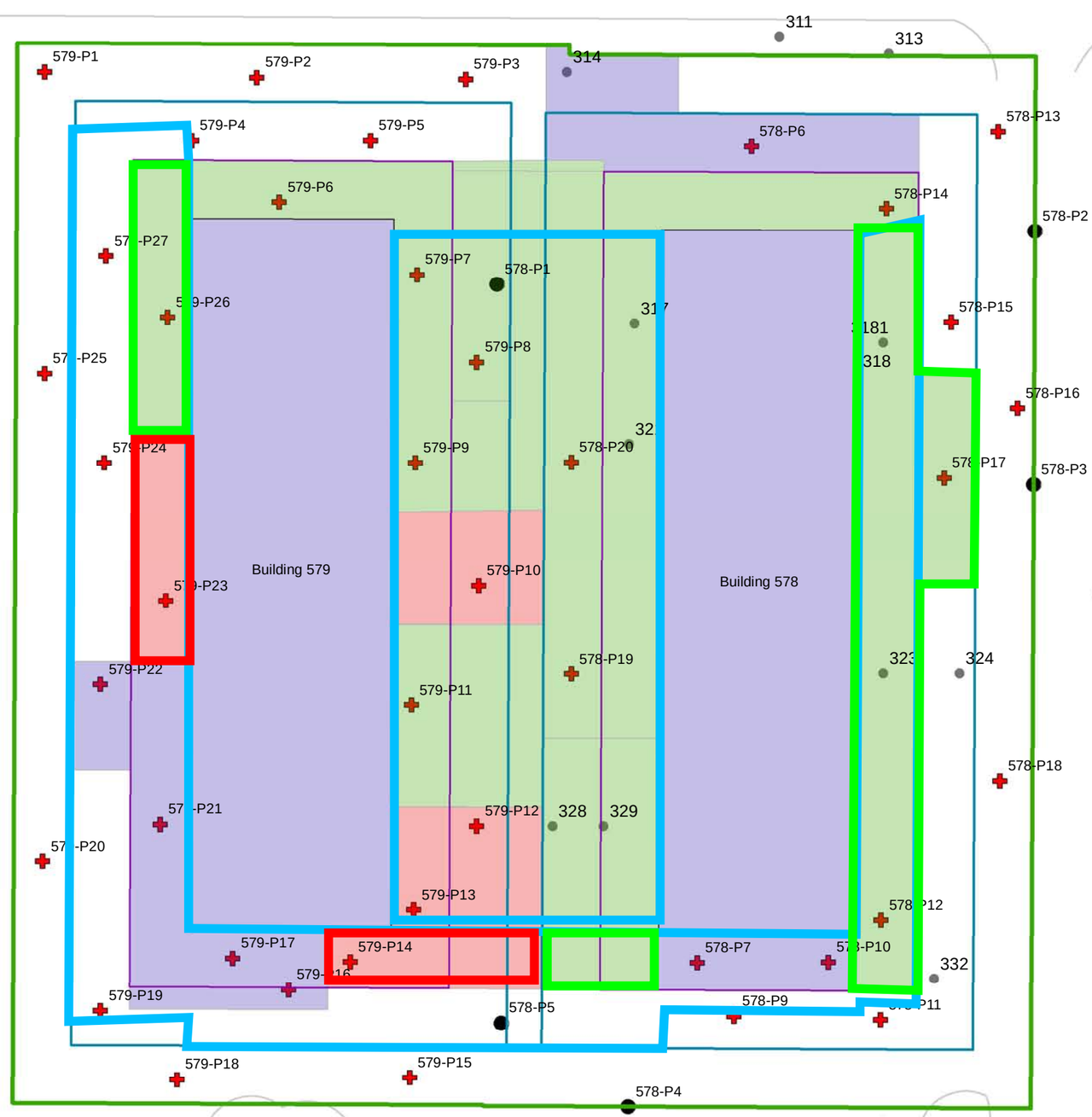
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0
9/24/13	0	0
9/25/13	0	0
9/26/13	0	0
9/27/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0
9/25/13	0	0	0	0	0
9/26/13	0	0	0	0	0
9/27/13	3	0	1	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location
2013 Sample Location
Historic Sample Location
Site Features

Excavation Depth (ft)
1.0
2.0
3.0

15-ft Sample Buffer
30-ft Sample Buffer
45-ft Sample Buffer

Notes: Total excavation volume = 2,703.4 cy

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure
3c

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 28, 2013
Prepared by: Michael Schott

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

Weather: Thunderstorms with lightening and periodic heavy downpours in the morning, Medium Winds, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	5
Everett White	NWDE Supervisor	5
Jevon Stone	NWDE Operator	5
Dave Hard	NWDE Operator	5
Jose Ordaz	NWDE Operator	5
Richard West	NWDE Operator	5
Lauren Lewis	NWDE Operator	5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0.5

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts a safety meeting.

0700 – 0900 – Due to the weather, the NWDE crew is at the staging area maintaining and cleaning the trucks and equipment. NWDE organizes the supplies and tools in the shipping containers and on the service truck.

0905 – NWDE (D Hard) resumes grading piles of treated sand previously imported at the R2 unit. J Stone and L Lewis resume loading treated concrete (Bldg 578) for hauling and internment in the R2 unit. J Ordaz and R West resume applying full strength Maectite at a rate of 0.75 gallons/CY from in between the two buildings. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water.

1000 – Iniki is abating a portion of the second story of Bldg 643. Iniki is running one sample pump today.

1130 – Lunch. Rain continues all morning from periods of overcast to rain to heavy rain. NWDE calls off work for the rest of the day due to weather.

Iniki reports they continued to abate and prepare to paint interior, second story Bldg 643.

1730 – End of Day

Photographs:

Photo 01: View of interior first floor Bldg 643 – Abatement complete. Prepared for painting.

Photo 02: View of north side of Bldg 578 – Loading concrete for disposal.

Photo 03: View in between Bldgs 578 and 579 – Loading out concrete and Maectite application in tandem.

Photo 04: View of Bldg 578 – Loading out concrete debris.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840
9/25/13	194	0	0	0	1617	450	1290
9/26/13	350	0	0	0	1967	405	1695
9/27/13	303	0	0	0	2270	360	2055
9/28/13	77	0	0	0	2347	0	2055

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

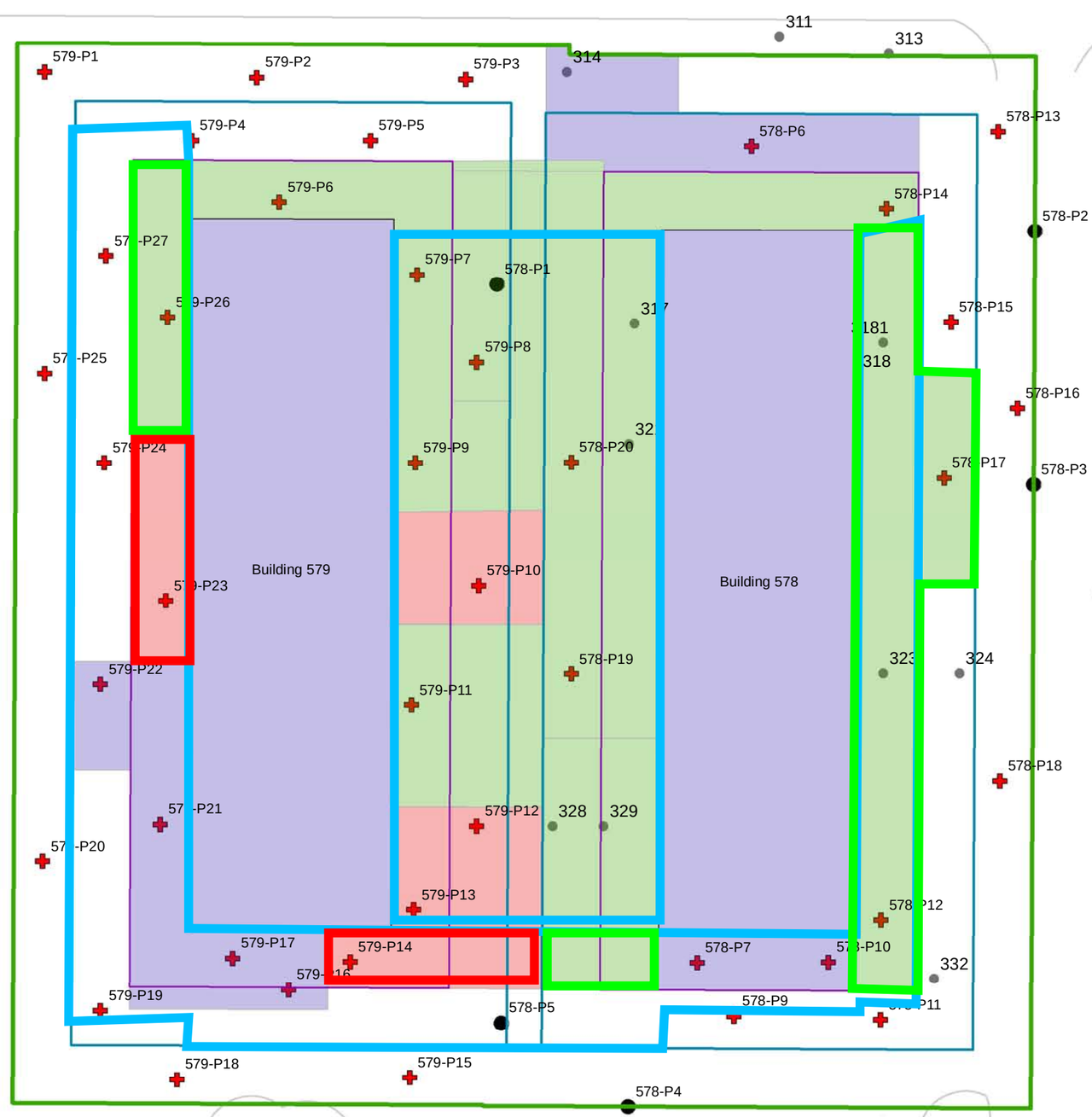
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
	Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0
9/24/13	0	0
9/25/13	0	0
9/26/13	0	0
9/27/13	0	0
9/28/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0
9/25/13	0	0	0	0	0
9/26/13	0	0	0	0	0
9/27/13	3	0	1	0	0
9/28/13	7	0	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location
2013 Sample Location
Historic Sample Location
Site Features

Excavation Depth (ft)
1.0
2.0
3.0

15-ft Sample Buffer
30-ft Sample Buffer
45-ft Sample Buffer

Notes: Total excavation volume = 2,703.4 cy

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

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Figure
3c

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Sunday, September 29, 2013
Prepared by: Michael Schott

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

Weather: Periodic rain all day, Medium Winds when raining, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	8
Everett White	NWDE Supervisor	8
Jevon Stone	NWDE Operator	8
Dave Hard	NWDE Operator	8
Jose Ordaz	NWDE Operator	8
Richard West	NWDE Operator	8
Lauren Lewis	NWDE Operator	8
Gary Lewis	Iniki Supervisor	0
Noah Wond	Iniki Laborer	0
DJ Engoring	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 3.5

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

0700 – 1130 – NWDE (J Stone) is excavating the treated sand and remnant demolition debris within the footprint of Bldg 578.The material is being direct loaded into the 2 off road trucks operated by L Lewis and periodically D Hard. M Schott and E White remove from the area small pieces of demolition debris by hand.

J Ordaz and R West complete applying Maectite in between the two buildings. Full strength Maectite is being applied at a rate of 0.75 gallons/CY. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water.

J Ordaz and R West also remove large debris (metal, concrete, plastic pipe and conduit) from the interior footprint of Bldg 579. More transite pipe is encountered. Transite pipe is placed with the other found onsite earlier in the week and covered with plastic sheeting.

D Hard splits time between hauling material and operating the dozer at the R2 unit. The dozer is used to place and compact the materials into lifts.

1145 - Lunch.

1230 – 1530 – NWDE completes excavating the treated sand and remnant demolition debris from Bldg 578. Loads of clean concrete, PVC pipe and metal debris are removed and placed in their associated stockpiles at the laydown area near the Sea Plane Hanger (Bldg151).

NWDE starts removing concrete from the foundation of Bldg 579.

1530 – End of Day.

Photographs:

Photo 01: View of excavation with footprint of Bldg 578.

Photo 02: Loacing clean concrete from Bldg 579.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/23/13	566	0	0	0	1312	315	315
9/24/13	111	0	0	0	1423	525	840
9/25/13	194	0	0	0	1617	450	1290
9/26/13	350	0	0	0	1967	405	1695
9/27/13	303	0	0	0	2270	360	2055
9/28/13	77	0	0	0	2347	0	2055
9/29/13	266	0	0	0	2613	330	2385

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

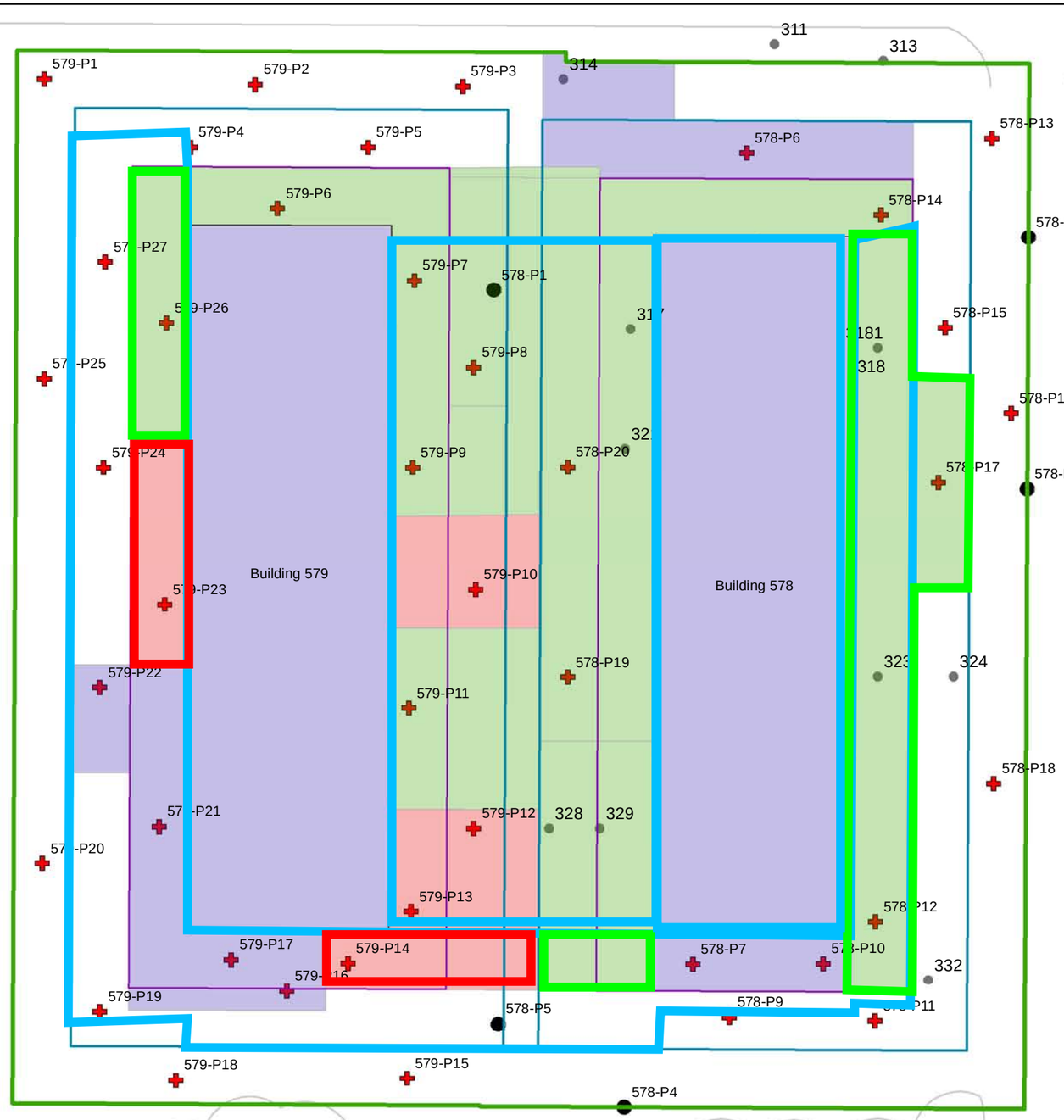
	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
Date	Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/23/13	0	0
9/24/13	0	0
9/25/13	0	0
9/26/13	0	0
9/27/13	0	0
9/28/13	0	0
9/29/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/23/13	0	0	0	0	0
9/24/13	0	0	1	0	0
9/25/13	0	0	0	0	0
9/26/13	0	0	0	0	0
9/27/13	3	0	1	0	0
9/28/13	7	0	0	0	0
9/29/13	1	1	1	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location
2013 Sample Location
Historic Sample Location
Site Features

Excavation Depth (ft)
1.0
2.0
3.0

15-ft Sample Buffer
30-ft Sample Buffer
45-ft Sample Buffer

Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

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Figure
3c

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 30, 2013
Prepared by: Michael Schott

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

Weather: Partly cloudy with a rain shower in the afternoon, light winds, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0630 – NWDE and Iniki conduct a joint safety meeting.

Due to the rain last night water is ponded in the SW cell of the R2 unit and a lot of water is ponded across the haul route. No hauling into the R2 unit will occur today. Water is being pumped out of the cell.

0800 - NWDE (J Stone and D Hard) is demolishing the concrete foundation of Bldg 579 and stockpiling the debris. R West, J Ordaz, and L Lewis are picking up the shadecloth along the north side of the Sea Plane Hanger (Bldg 151, DU6) which was put down last year.

Iniki is abating the interior walls both on the first and second story at Bldg 643 today.

1000 – Weekly project conference call is held.

1030 – M Schott is field reviewing the draft excavation plan for DU4 (for next year's scope). Significant encumbrances to excavation are documented and large trees are marked for removal over the off season.

1200 – Lunch.

1300 – NWDE (J Stone and D Hard) is stockpiling treated sand from within the footprint of Bldg 579. J Ordaz, R West and L Lewis are at the R2 unit covering the NE cell with shadecloth for the season.

1315 – NWDE reports the fuel pump is out on one of the Volvo 290 Excavators.

1400 – M Schott completes a review of DU4 for necessary edits to the draft excavation plan.

1410 – Iniki (G Lewis and D Enjoring) continues abating interior walls on the second floor of Bldg 643. N Wond is cleaning up from abatement on the first floor.

1730 – End of Day.

Photographs:

Photo 01: View of ponded water in active cell of R2 unit.

Photo 02: View of ponded water across the haul route.

Photo 03: View along north side of Bldg 151 – Removing shadecloth.

Photo 04: View of north end of Bldg 579 – Stockpiling concrete.

Photo 05: Bldg 643, interior second floor – Abating walls in preparation for painting.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/30/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.

N

30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

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Portland, OR | September 2013

Figure 3c

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 1, 2013
Prepared by: Michael Schott

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

Weather: Rain most of the morning, overcast in the afternoon, light winds, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 3.7

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	5 gallons	
Gasoline	165 gallons	

Description of Work:

0630 – NWDE conducts a safety meeting.

NWDE (D Hard and E White) is pumping water from the active, SW cell of the R2 unit. NWDE hauls in 1 load to test the conditions in and around the R2 unit with respect to continued hauling of loaded trucks. Hauling is postponed for the morning. NWDE (J Ordaz, R West, and J Stone) are folding up the used shadecloth at DU2 (Bldgs 578/579) for later re-deployment at the R2 unit.

M Schott begins collecting the confirmation samples associated with the Bldg 578 excavation.

1050 – Iniki is painting with Lead Stop the interior, second floor of Bldg 643 and moving stored materials into a finished portion of the first floor to allow for abatement to continue. The completed first floor portion was painted with Lead Stop yesterday.

1200 – Lunch.

1300 – NWDE (J Stone, J Ordaz and R West) are deploying shadecloth to cover the NW cell for the season.

1430 – NWDE (J Stone and L Lewis) resume hauling stockpiled, treated sand from DU2 to the R2 unit. R West, J Ordaz and D Hard are applying Maectite to the ash in the SW cell. 125 gallons of full strength Maectite are applied to the ash. The treated ash is mixed in with the mini-Excavator to maximize contact. Sand is blended in as well.

1500 – M Schott has completed sampling for the day.

1545 – Iniki is complete painting the interior, second story. Iniki is sealing off a portion of the first floor in preparation for abatement.

1600 – M Schott continues handpicking small particles of demolition debris from the perimeter of Bldg 578.

1730 – End of Day.

Note

Iniki (G Lewis) reports one of their employees (N Wond) was cut by broken glass contained in a trash bag of debris for disposal. The incident took place at about 1500 hrs at Bldg 643. The employee lifted the bag to move it and was unaware of the glass in the bag. The cut was to the left, outside calf of the leg. The employee was escorted to the PA's office (DBSI) where the wound was cleaned and 4 stiches were applied to close to cut. The employee was released for normal work duties after receiving first aid.

Photographs:

Photo 01: View of SW cell in R2 unit – Prior to treatment of ash with Maectite.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
Date	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/12	0	0	0	0	2738	180	2565

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/30/13	0	0
10/01/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.

N

30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure 3c

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, October 2, 2013
Prepared by: Michael Schott

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

Weather: Mostly to partly cloudy, light winds, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 9.1

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE and Iniki conduct a joint safety meeting. The Incident reported yesterday was discussed. The procedure (per the project HASP) for obtaining assistance and reporting were discussed.

0830 – NWDE (J Stone and L Lewis) is hauling stockpiled, treated sand from DU2 to the R2 unit. D Hard is operating the dozer spreading and compacting the sand. J Ordaz is using the mini-Excavator to spread previously imported piles of concrete into a layer.

M Schott is hand picking small pieces of demolition debris from within the footprint of Bldg 578.

1115 – Iniki (N Wond) is applying a second coat of paint on portions of the interior walls on the second story of Bldg 643 to achieve a better seal. G Lewis and D Engoring are on the first floor cleaning up from abatement activities.

1145 – Lunch.

1500 – Iniki (N Wond) is spraying/painting a portion of the interior first floor while G Lewis is cleaning up in another portion of the first floor.

1530 – NWDE continues to haul material from DU2 to the R2 unit. D Hard continues operating the dozer at the R2 unit. R West is decontaminating the haul trucks as they exit the R 2 unit. J Ordaz is using the mini- Excavator to remove concrete rumble and rebar left in place from the demolition of the interior structure in the extreme SW corner of the R2 unit. The concrete and rebar are considered “non-impacted” and therefore will be hauled to their respective stockpiles at the laydown area near the Sea Plane Hanger.

M Schott is hand picking small pieces of demolition debris from within the footprint of Bldg 579.

1730 – End of Day.

Photographs:

Photo 01: View of cleanup activities after abatement in interior, first floor Bldg 643.

Photo 02: View of painting interior, second floor Bldg 643..

Photo 03: Excavating and hauling treated sand between Bldgs 578 and 579.

Photo 04: View of SW cell in R2 unit.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/13	0	0	0	0	2738	180	2565
10/02/13	0	0	0	0	2738	540	3105

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

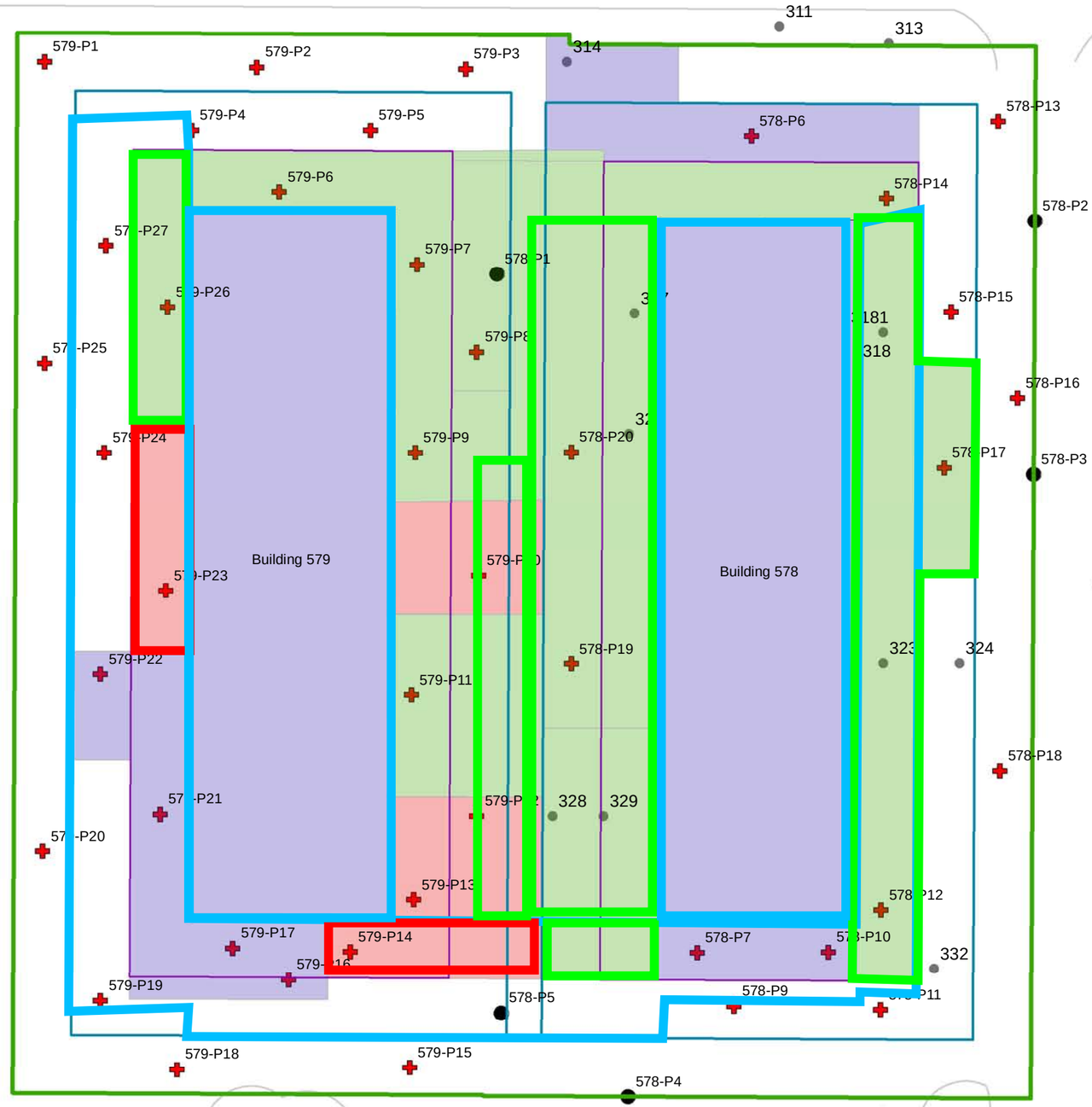
Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	Total to Date in DU2 (cyd)
	Cargo Pier Source Area	
9/30/13	0	0
10/01/13	0	0
10/02/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0
10/02/13	7	0	0	0	0

Note
Area in blue outline has been excavated to 1 ft bgs.
Area in green outline has been excavated to 2 ft bgs.
Area in red outline has been excavated to 3 ft bgs.



30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	

Notes: Total excavation volume = 2,703.4 cy

Decision Unit 2
Decision Unit 2 and 4 Soil Sampling
Midway NWR

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Portland, OR | September 2013

Figure 3c

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, October 3, 2013
Prepared by: Michael Schott

Project: Abatement of Asbestos, 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 winds, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 6.1

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	189 gallons	
Gasoline	0 gallons	

Description of Work:

0630 – NWDE conducts a safety meeting.

NWDE resumes excavating in between the 2 buildings (DU2) and hauling the treated sand to the R2 unit. D Hard continues spreading and compacting import sand into lifts. A load of clean concrete and a load of scrap metal are removed from the R2 unit and placed at the laydown area(s) near the Sea Plane Hanger.

0900 – Iniki (G Lewis and D Engoring) start wrapping the transite pipe (encountered during excavation activities at DU2) in poly plastic sheeting and placing it in a shipping container for storage and later transport. N Wond is at Bldg 643 continuing to paint.

M Schott begins collecting additional soil samples at two locations east of the Building 2404 patio (wall).

1145 – Lunch.

1230 – M Schott is at Bldg 579 handpicking small pieces of demolition debris from within the former building footprint.

NWDE applies full strength Maectite at a rate of 0.75 gallons/CY over the last lift (2 subareas down to 3 feet bgs) in between the two buildings. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water.

Iniki continues and later completes wrapping the transite pipe in plastic sheeting and removes it from the area. N Wond (Iniki) continues painting the interior walls, second story Bldg 643.

1500 - NWDE is excavating the last lift in between the 2 buildings and is hauling treated sand to the R2 unit. D Hard continues on the dozer

1600 – NWDE is removing shadecolth from the “front” (north end) of the buildings in preparation for Maectite application. NWDE is establishing a grid network in front of the former buildings as well.

1730 – End of Day.

Note

Please reference the attached Excavation Plan. As of COB today, only the areas to the north of both buildings require treatment and excavation. These areas should be complete by COB 10/4. All other areas are at the final excavation grade.

Photographs:

Photo 01: View NE corner of DU2 – Maectite being applied in the background between the footprints of the former buildings.

Photo 02: View transite pipe being wrapped in plastic sheeting and placed on pallets..

Photo 03: Veiw of NW corner of DU2 – Applying Maectite to final lifts in between the footprints of the former buildings.

Photo 04: Excavating final lift between the 2 buildings.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/13	0	0	0	0	2738	180	2565
10/02/13	0	0	0	0	2738	540	3105
10/03/13	60	0	0	0	2798	420	3525

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	Total to Date in DU2 (cyd)
	Cargo Pier Source Area	
9/30/13	0	0
10/01/13	0	0
10/02/13	0	0
10/03/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0
10/02/13	7	0	0	0	0
10/03/13	0	2	1	0	0

N

579-P1 579-P2 579-P3 579-P4 579-P5 579-P6 579-P27 579-P7 579-P26 579-P25 579-P8 579-P24 579-P9 579-P23 579-P10 579-P22 579-P11 579-P21 579-P12 579-P20 579-P13 579-P17 579-P14 579-P16 579-P19 579-P18 579-P15

578-P1 578-P6 578-P13 578-P14 578-P2 578-P15 578-P16 578-P20 578-P17 578-P3 578-P19 578-P18 578-P12 578-P7 578-P10 578-P9 578-P11 578-P5 578-P4

311 313 314 317 3181 318 321 323 324 328 329 332

Building 579

Building 578

30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	

Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2

Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure **3c**

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, October 4, 2013
Prepared by: Michael Schott

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

Weather: Cloudy, heavy winds in the afternoon, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 3.1

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0630 – NWDE conducts a safety meeting.

NWDE (R West and J Stone) resumes the Maectite application process along the north side of building 579. Full strength Maectite is applied at a rate of 0.75 gallons/CY over the last lift (2 subareas down to 3 feet bgs) in between the two buildings. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water.

J Ordaz, L Lewis and J Stone beginning deploying shadecloth for the end of season over the remaining 2 open cells (R2 unit). Shadecloth is secured with stockpiled sand bags. Some sandbags require re-bagging. An access road is left uncovered to allow for the remaining treated sand to be hauled in.

M Schott is collecting confirmation samples from the area in between the 2 buildings (Bldgs 578 and 579).

Iniki (N Wond) is at Bldg 643 continuing to touch up paint both on the first and second story (interior). G Lewis and D Engoring are cleaning up all work areas (DU4 and DU2) and moving materials, equipment and trash to the staging area. The remaining transite pipe is secured in a shipping container at the staging area.

1145 – Lunch.

1230 – M Schott resumes collecting confirmation samples from in between the 2 buildings

NWDE resumes shadecloth deployment at the R2 unit.

NWDE is excavating in 1 foot lifts the area north of Bldg 579 consistent with the Excavation Plan received 9/24.

1500 - The Maectite application process continues north of Bldg 579 after the initial first (1 foot) lift is removed and hauled to the R2 unit.

1600 – Iniki (N Wond) is at Bldg 643 continuing touch up painting interior, first floor. D Engoring is de-masking and cleaning up interior, second floor. G Lewis is removing debris from the area.

1730 – End of Day.

Note

Please reference the attached Excavation Plan. As of COB today, only the areas to the north of bldg. 578 require treatment and excavation. All other areas are at the final excavation grade.

Photographs:

Photo 01: View north of former Bldg 579 – Preparing to load out 2nd lift of treated sand.

Photo 02: View SW cell in R2 unit.

Photo 03: View of extreme SW corner of R2 unit.

Photo 04: View of Bldg 643, interior, second floor –De-masking after painting.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/13	0	0	0	0	2738	180	2565
10/02/13	0	0	0	0	2738	540	3105
10/03/13	60	0	0	0	2798	420	3525
10/4/13	96	0	0	0	2894	150	3675

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/30/13	0	0
10/01/13	0	0
10/02/13	0	0
10/03/13	0	0
10/04/13	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0
10/02/13	7	0	0	0	0
10/03/13	0	2	1	0	0
10/04/13	0	0	0	0	0

N

579-P1 579-P2 579-P3 579-P4 579-P5 579-P6 579-P27 579-P7 579-P26 579-P25 579-P8 579-P24 579-P9 579-P23 579-P10 579-P22 579-P11 579-P21 579-P12 579-P20 579-P13 579-P17 579-P14 579-P16 579-P19 579-P18 579-P15

578-P1 578-P6 578-P13 578-P14 578-P2 578-P15 578-P16 578-P20 578-P17 578-P3 578-P19 578-P18 578-P12 578-P7 578-P10 578-P9 578-P11 578-P5 578-P4

311 313 314 317 3181 318 321 323 324 328 329 332

Building 579

Building 578

30 15 0 30 Feet

2012 Sample Location	**Excavation Depth (ft)**	15-ft Sample Buffer
2013 Sample Location	1.0	30-ft Sample Buffer
Historic Sample Location	2.0	45-ft Sample Buffer
Site Features	3.0	

Notes: Total excavation volume = 2,703.4 cy

Path: P:\GIS\Projects\MidwayMaps\2013_proposed_Sample_Locations.mxd

Decision Unit 2

Decision Unit 2 and 4 Soil Sampling
Midway NWR

Geosyntec consultants

Portland, OR | September 2013

Figure **3c**

Daily Field Report

Date: Saturday, October 5, 2013
Prepared by: Michael Schott

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

Weather: Mostly to partly cloudy, light winds, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	0
Noah Wond	Iniki Laborer	0
DJ Engoring	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	138 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

NWDE decontaminates the mini-Excavator and tracked skid steer at the R2 unit and move it to DU2.

NWDE decontaminates one of the Excavators (Volvo 290) at DU2 for loading at the borrow source between the Fuel and Cargo Piers.

M Schott completes collecting the confirmation samples from the area north of Bldg 579 footprint.

0820 – NWDE moves the Excavator to the borrow source and begins loading 2 haul trucks. D Hard is loading the trucks driven by J Stone and L Lewis. R West and J Ordaz are spreading the sand at DU2 level. A biological monitor (M Schott) is stationed at the borrow source continuously during loading.

1145 - 1230 – Lunch.

NWDE resumes backfilling operations.

1300 – NWDE receives fuel pump for the second Excavator (Volvo 290).

1400 – NWDE installs the new fuel pump. Machine is up and running.

1600 – One of the haul trucks reports a problem. NWDE works to troubleshoot the problem. Possibly it's the alternator.

1730 – End of Day. NWDE replaced the batteries in the haul truck and the machine is up and running.

Note

5 turtles were observed swimming offshore between the 2 piers during the day. None of the turtles attempted to come ashore.

Photographs:

Photo 01: View NW corner of DU2 (north of Bldg 579) – Initiating backfilling operations.

Photo 02: View between fuel pier (bkgd) and cargo pier – Loading sand from the borrow source.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/13	0	0	0	0	2738	180	2565
10/02/13	0	0	0	0	2738	540	3105
10/03/13	60	0	0	0	2798	420	3525
10/04/13	96	0	0	0	2894	150	3675
10/05/13	0	0	0	0	2894	0	3675

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/30/13	0	0
10/01/13	0	0
10/02/13	0	0
10/03/13	0	0
10/04/13	0	0
10/05/13	765	765

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0
10/02/13	7	0	0	0	0
10/03/13	0	2	1	0	0
10/04/13	0	0	0	0	0
10/05/13	0	0	0	0	0

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Sunday, October 6, 2013
Prepared by: Michael Schott

Project: Abatement of Asbestos, 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 winds, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	0
Noah Wond	Iniki Laborer	0
DJ Engoring	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	195 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE conducts a safety meeting.

NWDE resumes backfilling operation at DU2. D Hard is loading the haul trucks driven by J Stone and L Lewis. R West and J Ordaz are spreading the sand at DU2 level. A biological monitor (M Schott) is stationed at the borrow source continuously during loading.

1145-1230 – Lunch.

NWDE resumes backfilling operation as previously stated.

1730 – End of Day.

Note

3 turtles and 1 seal were observed swimming offshore between the 2 piers during the day. None came ashore.

Photographs:

Photo 01: View of loading between the fuel and cargo piers.

Photo 02: View of north end of DU2 – Backfilling and leveling underway.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
9/30/13	0	0	0	0	2613	0	2385
10/01/13	0	0	0	0	2738	180	2565
10/02/13	0	0	0	0	2738	540	3105
10/03/13	60	0	0	0	2798	420	3525
10/04/13	96	0	0	0	2894	150	3675
10/05/13	0	0	0	0	2894	0	3675
10/06/13	0	0	0	0	2894	0	3675

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
9/30/13	0	0
10/01/13	0	0
10/02/13	0	0
10/03/13	0	0
10/04/13	0	0
10/05/13	765	765
10/06/13	1215	1980

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
9/30/13	0	1	0	0	0
10/01/13	1	0	0	0	0
10/02/13	7	0	0	0	0
10/03/13	0	2	1	0	0
10/04/13	0	0	0	0	0
10/05/13	0	0	0	0	0
10/06/13	0	0	0	0	0

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, October 7, 2013
Prepared by: Michael Schott

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

Weather: Medium to heavy rain in the morning, medium winds, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 0

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	58 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE and Iniki conduct a joint safety meeting.

NWDE resumes backfilling operation at DU2. D Hard is loading the haul trucks driven by J Stone and L Lewis. R West and J Ordaz are spreading the sand at DU2 level. A biological monitor (M Schott) is stationed at the borrow source continuously during loading.

Iniki continues and completes moving equipment, supplies and trash from Bldg 643 and continues at the staging area inventorying and organizing and putting equipment and materials away for the season.

1145-1230 – Lunch.

NWDE resumes backfilling operation as previously stated. One of the haul trucks does not start after lunch. NWDE attempts to charge the battery.

1400 – NWDE pauses backfilling to construct a temporary dike at the entrance to the R2 unit. Ponded water in the R2 unit has reached a level such that surface flow discharges out of the R2 unit at the crest of the entrance /exit ramp. A layer of shadecloth is laid down followed by a dike of sand. The sand dike is then covered with shadecloth and secured with sand bags.

NWDE then resumes the backfilling operation as previously stated. Later, the second haul truck was re-started after charging the battery for a few hours and resumed hauling clean backfill sand to DU2.

Iniki reports they applied Maectite to exposed interior, painted areas of the Sea Plane Hanger (Bldg 151). Targeted areas were flaking painted areas that could be accessed by use of the aerial lift (aerial lift was positioned outside of the building) through open portions of the wall.

1730 – End of Day.

Note

5 turtles and 1 seal were observed swimming offshore between the 2 piers during the day. None came ashore.

Photographs:

Photo 01: View of temporary dike at entrance / exit of R2 unit, northern 2 cells.

Photo 02: View of temporary dike at entrance / exit of R2 unit, northern 2 cells.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
10/07/13	0	0	0	0	2894	0	3675

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	Total to Date in DU2 (cyd)
	Cargo Pier Source Area	
10/07/13	870	2850

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
10/07/13	0	0	0	0	0

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 8, 2013
Prepared by: Michael Schott

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

Weather: Medium to heavy rain in the morning then partly cloudy to clear, light winds, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	10.5
Everett White	NWDE Supervisor	10.5
Jevon Stone	NWDE Operator	10.5
Dave Hard	NWDE Operator	10.5
Jose Ordaz	NWDE Operator	10.5
Richard West	NWDE Operator	10.5
Lauren Lewis	NWDE Operator	10.5
Gary Lewis	Iniki Supervisor	10
Noah Wond	Iniki Laborer	10
DJ Engoring	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 3.5

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	175 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE and Iniki conduct a joint safety meeting.

NWDE resumes backfilling operation at DU2. D Hard is loading the haul truck driven by L Lewis. J Ordaz is spreading the sand at DU2 level. A biological monitor (M Schott) is stationed at the borrow source continuously during loading.

NWDE (R West and J Stone) resumes applying Maectite north of Bldg 578. Full strength Maectite is applied at a rate of 0.75 gallons/CY. Maectite is being applied evenly within grid cells. Immediately following the application, the sand is mixed to homogeneity / uniformity with continuous wetting with water. Following application of Maectite, NWDE (R West and J Stone) begin excavating and stockpiling the treated sand north of Bldg 578 consistent with the Excavation Plan received 9/24.

Iniki continues at the staging area inventorying and organizing and putting equipment and materials away for the season.

1145-1230 – Lunch.

NWDE (R West and L Lewis) hauls treated soil from DU2 (north of Bldg 578) to the R2 unit. M Schott is cleaning up around the perimeter of DU2.

D Hard is at the R2 unit receiving the material and smoothing previously hauled material into layers. J Ordaz, J Stone and E White continue deploying shadecloth over the 2 active (southern) cells of the R2 unit. Shadecloth is secured with sandbags.

Iniki is assisting NWDE by filling more sand bags. Later, Iniki helps with shadecloth deployment at the R2 unit.

1615 – Excavation of Bldg 578 is complete. M Schott completes collecting confirmation samples at Bldg 578. Cleanup around DU2 and shadecloth deployment continues.

1730 – End of Day.

Note

2 turtles were observed swimming offshore between the 2 piers during the day. None came ashore.

Photographs:

Photo 01: View of north of former Bldg 578 - loading out treated soil to haul to the R2 unit.

Photo 02: View of extreme SW corner of DU2.

Photo 03: View of extreme SE corner of DU2.

Photo 04: View of extreme SE corner of DU2.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
10/07/13	0	0	0	0	2894	0	3675
10/08/13	126	0	0	0	3020	135	3810

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd)	
	Cargo Pier Source Area	Total to Date in DU2 (cyd)
10/07/13	870	2850
10/08/13	300	3150

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
10/07/13	0	0	0	0	0
10/08/13	0	0	0	0	0

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, October 9, 2013
Prepared by: Michael Schott

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

Weather: Overcast rain in the morning then partly cloudy, light winds, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Michael Schott	NWDE Field Oversight	8.5
Everett White	NWDE Supervisor	8.5
Jevon Stone	NWDE Operator	8.5
Dave Hard	NWDE Operator	8.5
Jose Ordaz	NWDE Operator	8.5
Richard West	NWDE Operator	8.5
Lauren Lewis	NWDE Operator	8.5
Gary Lewis	Iniki Supervisor	5
Noah Wond	Iniki Laborer	5
DJ Engoring	Iniki Laborer	5

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

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 EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
JLG Manlift	JLG 450AJ	Iniki
Bobcat Skid Steer	ID 175 / 463	Iniki
Dozer	D6H	DBSI Hours today 2.3

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0645 – NWDE and Iniki conduct a joint safety meeting.

NWDE resumes backfilling at DU2. R West and J Stone are backfilling the excavation area with previously stockpiled material.

NWDE (E White, M Schott, J Ordaz L Lewis and D Hard) are completing covering the R2 unit with shadeclolth.

Iniki completes cleaning up at the staging area and organizing and putting materials / supplies away for the season

1145-1230 – Lunch.

NWDE resumes backfilling at DU2. 2 more loads of clean sand are required / imported from the borrow source area. Materials, supplies and equipment are removed from the area. Scrape metal and trash is removed from the area. Unused pallets are removed from the R2 unit area and the “decon” system equipment is removed from the area.

NWDE is rinsing off the trucks and heavy equipment and putting supplies, materials and equipment away for the off season. NWDE inventories supplies left on hand.

1530 – End of Day.

Photographs:

Photo 01: View of SW cell of R2 unit – Covered with Shadecloth for the off season.

Photo 02: View of extreme NW corner of DU2 – Backfill is complete.

Photo 03: An alternate view of NW corner of DU2 – Backfill complete.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1]	
	Applied Today (gal)				Total to Date (gal)	Excavated and Hauled to R-2 Unit Today (cyd)	Excavated and Hauled to R-2 Unit Total to Date (cyd)
	Soils (DU2)	Demo Debris (DU2)	Walls (DU4)	Walls (DU6)			
10/07/13	0	0	0	0	2894	0	3675
10/08/13	126	0	0	0	3020	135	3810
10/09/13	0	0	0	0	3020	0	3810

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

DU 2 – Bldg 578, Bldg 579
DU 4 – Bldg 2404, Bldg 259 Midway Bowl, Store, Library, Theater, Bldg 2403
DU 6 – Sea Plane Hanger and others

Table 2. Clean Backfill Total Estimates

Date	DU2 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU2 (cyd) Cargo Pier Source Area	Total to Date in DU2 (cyd)
10/07/13	870	2850
10/08/13	300	3150
10/09/13	30	3180

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an estimated 15 CY of soil per truck load.

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU2 Wood Into R2
10/07/13	0	0	0	0	0
10/08/13	0	0	0	0	0
10/09/13	0	0	1	0	0

APPENDIX B

SELECT SITE PHOTOGRAPHS AND SITE PHOTOGRAPH SUMMARY DVD

Photo 1: 8/24/13 – View northeast; Building 578 (nearest building) Building 579 (farthest building). Asbestos containing material siding removal started on Building 578.

Photo 2: 8/28/13 – View north at the NAF staging area. Asbestos containing materials are double bagged and transferred to a poly-sheeting lined container at the NAF staging area.

Photo 3: 9/4/13 – View northwest; Building 579. Demolition begins, photo shows dust abatement with water (from fire hose).

Photo 4: 9/6/13 – View southwest; Sea Plane Hanger. Application of Lead Stop® paint to exterior of building.

Photo 5: 9/7/13 – View northeast; Building 259. Exterior of building is undergoing abatement of lead using hand methods (scraping) and application of Maectite®.

Photo 6: 9/11/13 – View northwest; Building 2404. The worker is applying Lead Stop® for lead paint abatement for exterior building wall.

Photo 7: 9/13/13 – View southeast; Building 579. Steel from demolition of building 579 is stacked up at the Bone Yard.

Photo 8: 9/13/13 – View northeast; Building 578. The photo shows demolition of the southern end of the building, which will progress north.

Photo 9: 9/14/13 – View northeast; Building 2403. Workers are conducting lead abatement via hand methods with Maectite® application to the building wall.

Photo 10: 9/14/13 – View east; Building 2404. Following lead based paint abatement a final coat of latex acrylic paint was applied.

Photo 11: 9/18/13 – View west; Disposal of Maectite® treated wood from Buildings 578/579 are disposed in the R2 Unit.

Photo 12: 9/18/13 – View south; Building 259. View of the exterior building wall following the application of Maectite® and Lead Stop®.

Photo 13: 9/23/13 – View south; west of Building 579. View of workers conducting Maectite® application to soil and mechanical mixing of soil with track-hoe.

Photo 14: 9/27/13–View south; east of Building 578. View of multi-level excavation and soil treatment areas.

Photo 15: 10/2/13 – View north; south of Building 578. View of workers excavating treated soil and loading into trucks.

Photo 16: 10/4/13 – View northeast; R2 Cell 3 and 4. View of treated soil from DU2 within the R2 cells.

Photo 17: 10/6/13 – View northeast; Fuel Pier. View of clean coral sand excavation and loading at the borrow source near the fuel pier.

The following four photos were taken from the same general point of view during the project, and demonstrate the process of building abatement, demolition, and final fill/grade

Photo 18: 8/27/13 – View southeast; Buildings 578 (left) and 579 (right). Exterior ACM removal is being conducted.

Photo 19: 9/12/13 – View southeast; Buildings 578 (left) and 579 (right). Building 579 has been demolished.

Photo 20: 9/14/13 – View southeast; Buildings 578 (left) and 579 (right). Building 579 has been dismantled and demolition debris is being hauled off to the R-2 unit.

Photo 21: 10/9/13 – View southeast; Buildings 578 and 579. View of final clean backfill grade following demolition of buildings 578 and 579.

APPENDIX C

FIELD SAMPLING PLAN

APPENDIX C

FIELD SAMPLING PLAN

This appendix describes the field procedures, field quality assurance/quality control (QA/QC) protocol, and the chemical testing program to be implemented during site activities. The field activities included the following activities:

- Collection of soil samples from hand tools;
- Collection of soil from hand augers;
- Location control;
- Decontamination procedures; and
- Handling of Investigation Derived Waste (IDW).

Collection of Soil Samples Using Hand Tools

Soil samples were collected from near-surface using tools such as spades, shovels, trowels, and scoops. At each sample location, hand tools were used to remove surface soil until the desired sample depth interval was reached. At that depth, a sample was collected using a stainless steel or plastic scoop. Representative soil samples were collected using this procedure with proper care. Chrome-plated tools were not be used.

If soil sample was a discrete sample, the sample was collected soil using a clean/decontaminated stainless-steel or plastic spoon. Composite soil samples were collected using a stainless-steel or plastic spoon, and transferred to a stainless steel or plastic bowl. The samples were mixed in the bowl to make a single sample.

Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

Collection of Soil Samples from Hand Augers

This system consists of an auger, a series of extensions, and a "T" handle. The auger is used to bore a hole to a desired sampling depth, and is then withdrawn. The sample is collected directly from the auger. The hand auger sampling procedure is summarized below:

- Attach the auger bit to a drill rod extension, and attach the "T" handle to the drill rod.
- Clear the area to be sampled of any surface debris (e.g., twigs, rocks, litter). It may be advisable to remove the first three to six inches of surface soil for an area approximately six inches in radius around the drilling location.

- Begin augering, periodically removing and depositing accumulated soils onto a plastic sheet near the hole. This prevents accidental brushing of loose material back down the borehole when removing the auger or adding drill rods. It also facilitates refilling the hole, and avoids possible contamination of the surrounding area.
- After reaching the desired depth, slowly and carefully remove the auger from the hole. When sampling directly from the auger, collect the sample after the auger is removed from the hole.
- Place the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, place the sample into appropriate, labeled containers and secure the caps tightly. If another sample is to be collected in the same hole, but at a greater depth, reattach the auger bit to the drill and assembly, and follow the steps above.
- Abandon the hole according to applicable regulations. Generally, shallow holes can simply be backfilled with the removed soil material.

Location Control

Geosyntec will record the position of each exploration by measuring the location to known site features.

Decontamination Procedures

The objective of the decontamination procedure was to minimize the potential for cross contamination between exploration locations and between individual samples within a specific exploration. Sampling equipment was decontaminated in accordance with the following procedures before each sampling attempt or measurement.

- Brush equipment with a wire brush, if necessary, to remove large particulate matter;
- Rinse with potable tap water;
- Wash with non-phosphate low pH solution of Citrinox® detergent and potable tap water; and
- Rinse with potable tap water.

Handling of Investigation-Derived Waste

IDW generated during the project included soil cuttings and decontamination water. Soil cuttings were placed back in the exploration in the order removed. Purge water was also discharge back to an area of the Decision Unit that is set for excavation. Disposable

items, such as sample bags, gloves and protective overalls and paper towels, were placed in plastic bags after use and deposited in trash receptacles for disposal.

Laboratory Analytical Plan

Laboratory analyses were conducted in accordance with EPA approved methods. The project utilized the laboratories accepted method detection limits as our reporting goals. All samples were analyzed for total lead in soil using EPA Method 6010 and multiple extraction procedure for lead.

APPENDIX D

ANALYTICAL REPORTS AND QUALITY ASSURANCE REPORTS

APPENDIX D

CHEMICAL ANALYTICAL DATA AND QA/QC REVIEW

Data quality for field sampling methods was based on measurement quality criteria listed in the Work Plan and were checked using analytical results of field duplicate samples. For chemical analyses, established precision and accuracy protocols, combined with those outlined in the Quality Assurance Project Plan (QAPP) suffice for analytical data quality. The laboratory's QA manager was responsible for maintaining the method-defined and QAPP-defined quality assurance/quality control (QA/QC) criteria.

Samples

All samples obtained for chemical analysis were transferred into clean sample containers. Soil samples were collected in plastic Whirl-Pak® bags. Whirl-Pak® bags are equipped with a built-in wire for self-closing and they include a puncture-proof tab. The bags are also designed with a built in write-on strip for labeling purposes. In addition, pre-printed labels were used for sample identification.

Sufficient sample volume was obtained for the laboratory to complete the method-specific quality control (QC) analyses. Possession of the samples was documented by the chain-of-custody. The chain-of-custody forms were signed and dated in the appropriate places by parties involved with a transfer of custody.

Each container was labeled by the field technician to avoid the possibility of misidentification. Each sample label contained the project name, project number, field sample identification, and sample date and sample time.

Upon receipt at the analytical laboratory, each sample was logged into tracking system. Each sample was assigned a unique laboratory identification number used by the laboratory for analysis assignment, sample tracking and data reporting. Upon receipt of the samples at the laboratory, the following procedures were followed. The custody seals were broken, the chain-of-custody form was signed by the laboratory personnel, and the conditions of the samples were recorded on the form. The original chain-of-custody form remained with the laboratory and copies were returned to the relinquishing party.

Field Quality Control

Field quality control measures included the collection of duplicate as well as documentation of field measurements and observations and field instrument calibration.

Field Duplicate Samples

Field duplicate samples were collected at a minimum frequency of 1 for every 20 samples (5 percent) per sampling event. In total, 12 duplicates were collected during the field activities.

Duplicate samples were collected to assess matrix homogeneity, sampling procedures and laboratory analytical consistency. The field duplicates were analyzed by the same analytical methods used for primary samples. Relative percent differences (RPDs) for field duplicates were calculated to assess the data precision and accuracy and potential variability caused by sample handling. Table D-1 summaries the RPDs. The RPDs between the primary and field duplicate soil samples range from 6 percent to 99 percent. Field duplicate precision is normally considered acceptable when the RPD is less than 30 percent. While some of the RPDs (5 total) were above these criteria, this is not unexpected because of the heterogeneity of the sandy soils.

Documentation of Field Activities

Daily field activities, including observations, measurement data, and variations in field procedures were recorded on appropriate field forms. The original field forms are maintained in the Geosyntec office files. Copies of the completed forms were maintained in a binder and sequentially numbered field file for reference during field activities. Indelible ink was used for all documentation. Photographic documentation of field activities was performed as appropriate. The FWS was provided with copies of each daily field report and the photographic log.

Laboratory Quality Assurance

Analytical methods that were used for this project included total lead by EPA Method 6020 and multiple extraction procedure for lead.

Laboratory Quality Control

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The project team reviewed each analytical data packet and completed a QA/QC checklist for each analytical data packet. Overall, the data were of usable quality and no quality control issues were identified. A copy of the data review checklist is included in this Appendix.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-14024-1
TestAmerica Sample Delivery Group: PNG0572
Client Project/Site: Midway Soil Sampling 2013

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Kristine D. Allen

Authorized for release by:
9/12/2013 11:09:48 PM

Kristine Allen, Project Manager I
kristine.allen@testamericainc.com

Table of Contents

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14024-1
SDG: PNG0572

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14024-1	2404-P1 (0-6)	Solid	08/27/13 10:18	09/07/13 09:50
250-14024-2	2404-P1 (12-18)	Solid	08/27/13 10:38	09/07/13 09:50
250-14024-3	2404-P1 (24-30)	Solid	08/27/13 10:42	09/07/13 09:50
250-14024-4	2404-P2 (0-6)	Solid	08/27/13 11:04	09/07/13 09:50
250-14024-5	2404-P2 (12-18)	Solid	08/27/13 11:15	09/07/13 09:50
250-14024-6	2404-P2 (24-30)	Solid	08/27/13 11:20	09/07/13 09:50
250-14024-7	2404-P3 (0-6)	Solid	08/27/13 13:26	09/07/13 09:50
250-14024-8	2404-P3 (12-18)	Solid	08/27/13 13:30	09/07/13 09:50
250-14024-9	2404-P3 (24-30)	Solid	08/27/13 13:34	09/07/13 09:50
250-14024-10	2404-P4 (0-6)	Solid	08/28/13 08:01	09/07/13 09:50
250-14024-11	2404-P4 (12-18)	Solid	08/28/13 08:05	09/07/13 09:50
250-14024-12	2404-P4 (24-30)	Solid	08/28/13 08:11	09/07/13 09:50
250-14024-13	2404-P5 (0-6)	Solid	08/28/13 08:29	09/07/13 09:50
250-14024-14	2404-P5 (12-18)	Solid	08/28/13 08:35	09/07/13 09:50
250-14024-15	2404-P5 (24-30)	Solid	08/28/13 08:46	09/07/13 09:50
250-14024-16	2404-P6 (0-6)	Solid	08/27/13 16:54	09/07/13 09:50
250-14024-17	2404-P6 (12-18)	Solid	08/27/13 16:59	09/07/13 09:50
250-14024-18	2404-P6 (24-30)	Solid	08/27/13 17:06	09/07/13 09:50
250-14024-19	2404-P7 (0-6)	Solid	08/27/13 16:17	09/07/13 09:50
250-14024-20	2404-P7 (12-18)	Solid	08/27/13 16:29	09/07/13 09:50
250-14024-21	2404-P7 (24-30)	Solid	08/27/13 16:34	09/07/13 09:50
250-14024-22	2404-P8 (0-6)	Solid	08/27/13 15:45	09/07/13 09:50
250-14024-23	2404-P8 (12-18)	Solid	08/27/13 15:54	09/07/13 09:50
250-14024-24	2404-P8 (24-30)	Solid	08/27/13 15:58	09/07/13 09:50
250-14024-25	2404-P9 (0-6)	Solid	08/28/13 09:16	09/07/13 09:50
250-14024-26	2404-P9 (12-18)	Solid	08/28/13 09:26	09/07/13 09:50
250-14024-27	2404-P10 (0-6)	Solid	08/27/13 14:50	09/07/13 09:50
250-14024-28	2404-P10 (12-18)	Solid	08/27/13 15:04	09/07/13 09:50
250-14024-29	2404-P10 (24-30)	Solid	08/27/13 15:07	09/07/13 09:50
250-14024-30	2404-P11 (0-6)	Solid	08/27/13 14:22	09/07/13 09:50
250-14024-31	2404-P11 (12-18)	Solid	08/27/13 14:29	09/07/13 09:50
250-14024-32	2404-P11 (24-30)	Solid	08/27/13 14:34	09/07/13 09:50
250-14024-33	2404-P3 (30-36)	Solid	08/27/13 13:41	09/07/13 09:50
250-14024-34	2404-P5 (0-6) DUP	Solid	08/28/13 08:29	09/07/13 09:50
250-14024-35	2404-P5 (12-18) DUP	Solid	08/28/13 08:35	09/07/13 09:50
250-14024-36	2404-P5 (24-30) DUP	Solid	08/28/13 08:46	09/07/13 09:50

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14024-1
SDG: PNG0572

Job ID: 250-14024-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-14024-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2013 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 23.9º C.

Metals
Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: (250-14024-1 MS), (250-14024-1 MSD), 2404-P1 (0-6) (250-14024-1), 2404-P1 (12-18) (250-14024-2), 2404-P1 (24-30) (250-14024-3), 2404-P2 (0-6) (250-14024-4), 2404-P2 (12-18) (250-14024-5), 2404-P2 (24-30) (250-14024-6), 2404-P3 (0-6) (250-14024-7), 2404-P3 (12-18) (250-14024-8), 2404-P3 (24-30) (250-14024-9), 2404-P4 (0-6) (250-14024-10), 2404-P4 (12-18) (250-14024-11), 2404-P4 (24-30) (250-14024-12), 2404-P5 (0-6) (250-14024-13), 2404-P5 (12-18) (250-14024-14), 2404-P5 (24-30) (250-14024-15), 2404-P6 (0-6) (250-14024-16), 2404-P6 (12-18) (250-14024-17), 2404-P6 (24-30) (250-14024-18), 2404-P7 (0-6) (250-14024-19), 2404-P7 (12-18) (250-14024-20), (250-14024-21 MS), (250-14024-21 MSD), 2404-P10 (0-6) (250-14024-27), 2404-P10 (12-18) (250-14024-28), 2404-P10 (24-30) (250-14024-29), 2404-P11 (0-6) (250-14024-30), 2404-P11 (12-18) (250-14024-31), 2404-P11 (24-30) (250-14024-32), 2404-P3 (30-36) (250-14024-33), 2404-P5 (0-6) DUP (250-14024-34), 2404-P5 (12-18) DUP (250-14024-35), 2404-P5 (24-30) DUP (250-14024-36), 2404-P7 (24-30) (250-14024-21), 2404-P8 (0-6) (250-14024-22), 2404-P8 (12-18) (250-14024-23), 2404-P8 (24-30) (250-14024-24), 2404-P9 (0-6) (250-14024-25), 2404-P9 (12-18) (250-14024-26). The reporting limits (RLs) have been adjusted proportionately.

No other analytical or quality issues were noted.

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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 2404-P1 (0-6) — **Lab Sample ID: 250-14024-1**
Date Collected: 08/27/13 10:18 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	69		6.8	1.2	mg/Kg		09/10/13 21:13	09/11/13 12:51	20

Client Sample ID: 2404-P1 (12-18) — **Lab Sample ID: 250-14024-2**
Date Collected: 08/27/13 10:38 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.6	J	3.3	0.57	mg/Kg		09/10/13 21:13	09/11/13 14:26	10

Client Sample ID: 2404-P1 (24-30) — **Lab Sample ID: 250-14024-3**
Date Collected: 08/27/13 10:42 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1	J	4.2	0.73	mg/Kg		09/10/13 21:13	09/11/13 14:29	10

Client Sample ID: 2404-P2 (0-6) — **Lab Sample ID: 250-14024-4**
Date Collected: 08/27/13 11:04 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		7.2	1.3	mg/Kg		09/10/13 21:13	09/11/13 13:09	20

Client Sample ID: 2404-P2 (12-18) — **Lab Sample ID: 250-14024-5**
Date Collected: 08/27/13 11:15 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190		8.7	1.5	mg/Kg		09/10/13 21:13	09/11/13 13:13	20

Client Sample ID: 2404-P2 (24-30) — **Lab Sample ID: 250-14024-6**
Date Collected: 08/27/13 11:20 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	80		7.2	1.2	mg/Kg		09/10/13 21:13	09/11/13 13:26	20

Client Sample ID: 2404-P3 (0-6) — **Lab Sample ID: 250-14024-7**
Date Collected: 08/27/13 13:26 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	270		6.9	1.2	mg/Kg		09/10/13 21:13	09/11/13 13:29	20

Client Sample ID: 2404-P3 (12-18) — **Lab Sample ID: 250-14024-8**
Date Collected: 08/27/13 13:30 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2		3.3	0.58	mg/Kg		09/10/13 21:13	09/11/13 14:32	10

Client Sample ID: 2404-P3 (24-30) — **Lab Sample ID: 250-14024-9**
Date Collected: 08/27/13 13:34 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		5.9	1.0	mg/Kg		09/10/13 21:13	09/11/13 13:36	20

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 2404-P4 (0-6) — **Lab Sample ID: 250-14024-10**
Date Collected: 08/28/13 08:01 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54		8.8	1.5	mg/Kg		09/10/13 21:13	09/11/13 13:39	20

Client Sample ID: 2404-P4 (12-18) — **Lab Sample ID: 250-14024-11**
Date Collected: 08/28/13 08:05 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		7.9	1.4	mg/Kg		09/10/13 21:13	09/11/13 13:43	20

Client Sample ID: 2404-P4 (24-30) — **Lab Sample ID: 250-14024-12**
Date Collected: 08/28/13 08:11 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34		7.9	1.4	mg/Kg		09/10/13 21:13	09/11/13 13:46	20

Client Sample ID: 2404-P5 (0-6) — **Lab Sample ID: 250-14024-13**
Date Collected: 08/28/13 08:29 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	93		7.2	1.3	mg/Kg		09/10/13 21:13	09/11/13 13:49	20

Client Sample ID: 2404-P5 (12-18) — **Lab Sample ID: 250-14024-14**
Date Collected: 08/28/13 08:35 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	72		5.6	0.98	mg/Kg		09/10/13 21:13	09/11/13 13:53	20

Client Sample ID: 2404-P5 (24-30) — **Lab Sample ID: 250-14024-15**
Date Collected: 08/28/13 08:46 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		7.2	1.3	mg/Kg		09/10/13 21:13	09/11/13 13:56	20

Client Sample ID: 2404-P6 (0-6) — **Lab Sample ID: 250-14024-16**
Date Collected: 08/27/13 16:54 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		6.6	1.2	mg/Kg		09/10/13 21:13	09/11/13 14:09	20

Client Sample ID: 2404-P6 (12-18) — **Lab Sample ID: 250-14024-17**
Date Collected: 08/27/13 16:59 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.5		4.0	0.69	mg/Kg		09/10/13 21:13	09/11/13 17:00	10

Client Sample ID: 2404-P6 (24-30) — **Lab Sample ID: 250-14024-18**
Date Collected: 08/27/13 17:06 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.5		3.6	0.63	mg/Kg		09/10/13 21:13	09/11/13 17:03	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 2404-P7 (0-6) — **Lab Sample ID: 250-14024-19**
Date Collected: 08/27/13 16:17 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55		6.0	1.0	mg/Kg		09/10/13 21:13	09/11/13 14:19	20

Client Sample ID: 2404-P7 (12-18) — **Lab Sample ID: 250-14024-20**
Date Collected: 08/27/13 16:29 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		6.7	1.2	mg/Kg		09/10/13 21:13	09/11/13 14:23	20

Client Sample ID: 2404-P7 (24-30) — **Lab Sample ID: 250-14024-21**
Date Collected: 08/27/13 16:34 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2	J	4.2	0.73	mg/Kg		09/10/13 21:16	09/11/13 17:09	10

Client Sample ID: 2404-P8 (0-6) — **Lab Sample ID: 250-14024-22**
Date Collected: 08/27/13 15:45 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.1		6.6	1.2	mg/Kg		09/10/13 21:16	09/11/13 15:26	20

Client Sample ID: 2404-P8 (12-18) — **Lab Sample ID: 250-14024-23**
Date Collected: 08/27/13 15:54 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		6.2	1.1	mg/Kg		09/10/13 21:16	09/11/13 15:29	20

Client Sample ID: 2404-P8 (24-30) — **Lab Sample ID: 250-14024-24**
Date Collected: 08/27/13 15:58 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		7.2	1.2	mg/Kg		09/10/13 21:16	09/11/13 15:32	20

Client Sample ID: 2404-P9 (0-6) — **Lab Sample ID: 250-14024-25**
Date Collected: 08/28/13 09:16 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23		5.7	0.99	mg/Kg		09/10/13 21:16	09/11/13 15:36	20

Client Sample ID: 2404-P9 (12-18) — **Lab Sample ID: 250-14024-26**
Date Collected: 08/28/13 09:26 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.8		5.7	0.98	mg/Kg		09/10/13 21:16	09/11/13 15:39	20

Client Sample ID: 2404-P10 (0-6) — **Lab Sample ID: 250-14024-27**
Date Collected: 08/27/13 14:50 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		8.5	1.5	mg/Kg		09/10/13 21:16	09/11/13 15:42	20

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 2404-P10 (12-18) — **Lab Sample ID: 250-14024-28**
Date Collected: 08/27/13 15:04 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		6.5	1.1	mg/Kg		09/10/13 21:16	09/11/13 15:46	20

Client Sample ID: 2404-P10 (24-30) — **Lab Sample ID: 250-14024-29**
Date Collected: 08/27/13 15:07 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		4.1	0.71	mg/Kg		09/10/13 21:16	09/11/13 15:49	20

Client Sample ID: 2404-P11 (0-6) — **Lab Sample ID: 250-14024-30**
Date Collected: 08/27/13 14:22 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		8.1	1.4	mg/Kg		09/10/13 21:16	09/11/13 15:52	20

Client Sample ID: 2404-P11 (12-18) — **Lab Sample ID: 250-14024-31**
Date Collected: 08/27/13 14:29 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		3.2	0.56	mg/Kg		09/10/13 21:16	09/11/13 17:19	10

Client Sample ID: 2404-P11 (24-30) — **Lab Sample ID: 250-14024-32**
Date Collected: 08/27/13 14:34 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4	J	2.8	0.48	mg/Kg		09/10/13 21:16	09/11/13 17:23	10

Client Sample ID: 2404-P3 (30-36) — **Lab Sample ID: 250-14024-33**
Date Collected: 08/27/13 13:41 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.7		6.5	1.1	mg/Kg		09/10/13 21:16	09/11/13 16:14	20

Client Sample ID: 2404-P5 (0-6) DUP — **Lab Sample ID: 250-14024-34**
Date Collected: 08/28/13 08:29 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	99		6.6	1.2	mg/Kg		09/10/13 21:16	09/11/13 16:17	20

Client Sample ID: 2404-P5 (12-18) DUP — **Lab Sample ID: 250-14024-35**
Date Collected: 08/28/13 08:35 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		6.2	1.1	mg/Kg		09/10/13 21:16	09/11/13 16:20	20

Client Sample ID: 2404-P5 (24-30) DUP — **Lab Sample ID: 250-14024-36**
Date Collected: 08/28/13 08:46 — **Matrix: Solid**
Date Received: 09/07/13 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		5.7	1.0	mg/Kg		09/10/13 21:16	09/11/13 16:23	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-19994/1-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.087	mg/Kg		09/10/13 21:13	09/11/13 12:41	10

Lab Sample ID: LCS 250-19994/2-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	48.8	49.5		mg/Kg		101	80 - 120

Lab Sample ID: 250-14024-1 MS
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: 2404-P1 (0-6)
Prep Type: Total/NA
Prep Batch: 19994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	69		350	401		mg/Kg		95	75 - 125

Lab Sample ID: 250-14024-1 MSD
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: 2404-P1 (0-6)
Prep Type: Total/NA
Prep Batch: 19994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	69		411	467		mg/Kg		97	75 - 125	15	40

Lab Sample ID: MB 250-19996/1-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.49	0.085	mg/Kg		09/10/13 21:16	09/11/13 14:56	10

Lab Sample ID: LCS 250-19996/2-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.5	48.0		mg/Kg		97	80 - 120

Lab Sample ID: 250-14024-21 MS
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: 2404-P7 (24-30)
Prep Type: Total/NA
Prep Batch: 19996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.2	J	409	401		mg/Kg		98	75 - 125

Lab Sample ID: 250-14024-21 MSD
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: 2404-P7 (24-30)
Prep Type: Total/NA
Prep Batch: 19996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.2	J	415	410		mg/Kg		99	75 - 125	2	40

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14024-1
SDG: PNG0572

Laboratory: TestAmerica Portland

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-012	12-26-13
California	State Program	9	2597	09-30-13
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14024-1
SDG: PNG0572

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PRT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Laboratory: Test America Seattle, 5755 8th Street East, Tacmoa, WA 98424. 253.922.2310 (p) 253.922.5

250-14024 Chain of Custody

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	SWakefield		

TURNAROUND
Organic and Inorganic Analyses: ☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1
Petroleum Hydrocarbon Analyses: ☐5 ☐4 ☐3 ☐2 ☐1 ☐<1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	REQUESTED ANALYSES: Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
1	2404-P1 (0-6)	(0-6)	8-27-13	10:18	x	Soil	1		
2	2404-P1 (12-18)	(12-18)	↓	10:38	x	Soil	1		
3	2404-P1 (24-30)	(24-30)	↓	10:42	x	Soil	1		
4	2404-P2 (0-6)	(0-6)	8-27-13	11:04	x	Soil	1		
5	2404-P2 (12-18)	(12-18)	↓	11:15	x	Soil	1		
6	2404-P2 (24-30)	(24-30)	↓	11:20	x	Soil	1		
7	2404-P3 (0-6)	(0-6)	8-27-13	13:26	x	Soil	1		
8	2404-P3 (12-18)	(12-18)	↓	13:30	x	Soil	1		
9	2404-P3 (24-30)	(24-30)	↓	13:34	x	Soil	1		
10	2404-P4 (0-6)	(0-6)	8-28-13	08:01	x	Soil	1		
11	2404-P4 (12-18)	(12-18)	↓	08:05	x	Soil	1		
12	2404-P4 (24-30)	(24-30)	↓	08:11	x	Soil	1		
13	2404-P5 (0-6)	(0-6)	8-28-13	08:29	x	Soil	1		
14	2404-P5 (12-18)	(12-18)	↓	08:35	x	Soil	1		
15	2404-P5 (24-30)	(24-30)	↓	08:46	x	Soil	1		
16	2404-P6 (0-6)	(0-6)	8-27-13	16:54	x	Soil	1		
17	2404-P6 (12-18)	(12-18)	↓	16:59	x	Soil	1		
18	2404-P6 (24-30)	(24-30)	↓	17:06	x	Soil	1		
19	2404-P7 (0-6)	(0-6)	8-27-13	16:17	x	Soil	1		
20	2404-P7 (12-18)	(12-18)	↓	16:29	x	Soil	1		
21	2404-P7 (24-30)	(24-30)	↓	16:34	x	Soil	1		
22	2404-P8 (0-6)	(0-6)	8-27-13	15:45	x	Soil	1		
23	2404-P8 (12-18)	(12-18)	↓	15:54	x	Soil	1		
24	2404-P8 (24-30)	(24-30)	↓	15:58	x	Soil	1		
25	2404-P9 (0-6)	(0-6)	8-28-13	09:16	x	Soil	1		
26	2404-P9 (12-18)	(12-18)	↓	09:26	x	Soil	1		
~~27~~	~~2404-P9 (24-30)~~	~~(24-30)~~	↓ REFUSAL	—	x	Soil	1	REFUSAL @ 20"	
28	2404-P10 (0-6)	(0-6)	8-27-13	14:50	x	Soil	1		
29	2404-P10 (12-18)	(12-18)	↓	15:04	x	Soil	1		
30	2404-P10 (24-30)	(24-30)	↓	15:07	x	Soil	1		

RELINQUISHED BY:	SW Wakefield	DATE:	9-5-13	RECEIVED BY:	[illegible]	DATE:	10:45
PRINT NAME:	SCOTT WAKEFIELD	FIRM:	GEOSYNTEC	PRINT NAME:	Kristie Reilly	FIRM:	TA
		TIME:				TIME:	9/6/13 24.6°C
RELINQUISHED BY:	Kristie Reilly	DATE:	9/6/13	RECEIVED BY:	[illegible]	DATE:	9/9/13
PRINT NAME:	Kristie Reilly	FIRM:	TA	PRINT NAME:	[illegible]	FIRM:	TAT
		TIME:	10:15			TIME:	0950

NO ☐

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)
If not "all", specify:

TEMP: 23.9

BLNG 2404

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9/12/2013

Laboratory: Test America Seattle, 5755 8th Street East, Tacmoa, WA 98424. 253.922.2310 (p) 253.922.5047 (f)

14024

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	SWakefield		

TURNAROUND REQUEST in Business Days *

Organic and Inorganic Analyses: ☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1

Petroleum Hydrocarbon Analyses: ☐5 ☐4 ☐3 ☐2 ☐1 ☐<1

OTHER Specify:

** Turnaround Requests less than standard may incur Rush Charges.*

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	PRESERVATIVE	REQUESTED ANALYSES: Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
31	2404-P11 (0-6)	(0-6)	8-27-13	14:22		x	Soil	1		
32	2404-P11 (12-18)	(12-18)	↓	14:29		x	Soil	1		
33	2404-P11 (24-30)	(24-30)	↓	14:34		x	Soil	1		
34	2404-P3(30-36)	(30-36)	8-27-13	13:41		x	Soil	1		
35	2404-P5 (0-6) DUP	(0-6)	8-28-13	0829		x	Soil	1		
36	2404-P5 (12-18) DUP	(12-18)	↓	08:35		x	Soil	1		
37	2404-P5 (24-30) DUP	(24-30)	↓	08:46		x	Soil	1		
38						x	Soil	1		
39						x	Soil	1		
40						x	Soil	1		
41						x	Soil	1		
42						x	Soil	1		
43						x	Soil	1		
44						x	Soil	1		
45						x	Soil	1		
46						x	Soil	1		
47						x	Soil	1		
48						x	Soil	1		
49						x	Soil	1		
50						x	Soil	1		
51						x	Soil	1		
52						x	Soil	1		
53						x	Soil	1		
54						x	Soil	1		
55						x	Soil	1		
56						x	Soil	1		
57						x	Soil	1		
58						x	Soil	1		
59						x	Soil	1		
60						x	Soil	1		

RELINQUISHED BY:	SWakefield	DATE: 9-5-13	RECEIVED BY:	Kristie Reilly	DATE: 9/6/13
PRINT NAME:	SCOTT WAKEFIELD	FIRM: GEOSYNTEC	PRINT NAME:	Kristie Reilly FIRM: TA	TIME: 10:45 24.6 no ice.
RELINQUISHED BY:	Kristie Reilly	DATE:	RECEIVED BY:		DATE: 9/7/13
PRINT NAME:	Kristie Reilly	FIRM: TA	PRINT NAME:	FIRM: TA	TIME: 0930
		TIME: 9/6/13 11:15			

ADDITIONAL REMARKS:

Metals samples field filtered? No (all)

If not "all", specify:

TEMP: 23.9°C

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9/12/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 250-14024-1
SDG Number: PNG0572

Login Number: 14024
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
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.	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 Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-14022-1
TestAmerica Sample Delivery Group: PNG0572
Client Project/Site: Midway Soil Sampling 2013

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Kristine D. Allen

Authorized for release by:
9/13/2013 4:06:05 PM

Kristine Allen, Project Manager I
kristine.allen@testamericainc.com

Table of Contents

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14022-1
SDG: PNG0572

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14022-1	579-P1 (0-6)	Solid	08/28/13 15:50	09/07/13 09:30
250-14022-2	579-P1 (12-18)	Solid	08/28/13 16:02	09/07/13 09:30
250-14022-3	579-P1 (24-30)	Solid	08/28/13 16:10	09/07/13 09:30
250-14022-4	579-P2 (0-6)	Solid	08/28/13 16:28	09/07/13 09:30
250-14022-5	579-P2 (12-18)	Solid	08/28/13 16:40	09/07/13 09:30
250-14022-6	579-P2 (24-30)	Solid	08/28/13 16:45	09/07/13 09:30
250-14022-7	579-P3 (0-6)	Solid	08/29/13 07:54	09/07/13 09:30
250-14022-8	579-P3 (12-18)	Solid	08/29/13 08:03	09/07/13 09:30
250-14022-9	579-P3 (24-30)	Solid	08/29/13 08:10	09/07/13 09:30
250-14022-10	579-P4 (0-6)	Solid	08/29/13 08:30	09/07/13 09:30
250-14022-11	579-P4 (12-18)	Solid	08/29/13 08:39	09/07/13 09:30
250-14022-12	579-P4 (24-30)	Solid	08/29/13 08:45	09/07/13 09:30
250-14022-13	579-P5 (0-6)	Solid	08/29/13 09:11	09/07/13 09:30
250-14022-14	579-P5 (12-18)	Solid	08/29/13 09:17	09/07/13 09:30
250-14022-15	579-P5 (24-30)	Solid	08/29/13 09:24	09/07/13 09:30
250-14022-16	579-P6 (0-6)	Solid	08/29/13 09:42	09/07/13 09:30
250-14022-17	579-P6 (12-18)	Solid	08/29/13 09:50	09/07/13 09:30
250-14022-18	579-P6 (24-30)	Solid	08/29/13 09:55	09/07/13 09:30
250-14022-19	579-P7 (0-6)	Solid	08/29/13 10:13	09/07/13 09:30
250-14022-20	579-P7 (12-18)	Solid	08/29/13 10:19	09/07/13 09:30
250-14022-21	579-P7 (24-30)	Solid	08/29/13 10:25	09/07/13 09:30
250-14022-22	579-P8 (0-6)	Solid	08/29/13 10:31	09/07/13 09:30
250-14022-23	579-P8 (12-18)	Solid	08/29/13 10:39	09/07/13 09:30
250-14022-24	579-P8 (24-30)	Solid	08/29/13 10:57	09/07/13 09:30
250-14022-25	579-P9 (0-6)	Solid	08/29/13 11:11	09/07/13 09:30
250-14022-26	579-P9 (12-18)	Solid	08/29/13 11:18	09/07/13 09:30
250-14022-27	579-P9 (24-30)	Solid	08/29/13 11:21	09/07/13 09:30
250-14022-28	579-P10 (0-6)	Solid	08/29/13 12:52	09/07/13 09:30
250-14022-29	579-P10 (12-18)	Solid	08/29/13 13:01	09/07/13 09:30
250-14022-30	579-P10 (24-30)	Solid	08/29/13 13:06	09/07/13 09:30
250-14022-31	579-P11 (0-6)	Solid	08/29/13 13:38	09/07/13 09:30
250-14022-32	579-P11 (12-18)	Solid	08/29/13 13:49	09/07/13 09:30
250-14022-33	579-P11 (24-30)	Solid	08/29/13 13:57	09/07/13 09:30
250-14022-34	579-P12 (0-6)	Solid	08/29/13 14:22	09/07/13 09:30
250-14022-35	579-P12 (12-18)	Solid	08/29/13 14:36	09/07/13 09:30
250-14022-36	579-P12 (24-30)	Solid	08/29/13 14:52	09/07/13 09:30
250-14022-37	579-P13 (0-6)	Solid	08/29/13 15:22	09/07/13 09:30
250-14022-38	579-P13 (12-18)	Solid	08/29/13 15:41	09/07/13 09:30
250-14022-39	579-P13 (24-30)	Solid	08/29/13 15:48	09/07/13 09:30
250-14022-40	579-P14 (0-6)	Solid	08/30/13 08:27	09/07/13 09:30
250-14022-41	579-P14 (12-18)	Solid	08/30/13 08:48	09/07/13 09:30
250-14022-42	579-P14 (24-30)	Solid	08/30/13 08:52	09/07/13 09:30
250-14022-43	579-P15 (0-6)	Solid	08/30/13 10:40	09/07/13 09:30
250-14022-44	579-P15 (12-18)	Solid	08/30/13 10:50	09/07/13 09:30
250-14022-45	579-P15 (24-30)	Solid	08/30/13 10:56	09/07/13 09:30
250-14022-46	579-P16 (0-6)	Solid	08/31/13 10:42	09/07/13 09:30
250-14022-47	579-P16 (12-18)	Solid	08/31/13 10:49	09/07/13 09:30
250-14022-48	579-P16 (24-30)	Solid	08/31/13 11:00	09/07/13 09:30
250-14022-49	579-P17 (0-6)	Solid	08/30/13 10:07	09/07/13 09:30
250-14022-50	579-P17 (12-18)	Solid	08/30/13 10:18	09/07/13 09:30
250-14022-51	579-P17 (24-30)	Solid	08/30/13 10:22	09/07/13 09:30
250-14022-52	579-P18 (0-6)	Solid	08/30/13 11:08	09/07/13 09:30
250-14022-53	579-P18 (12-18)	Solid	08/30/13 11:14	09/07/13 09:30

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14022-1
SDG: PNG0572

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14022-54	579-P18 (24-30)	Solid	08/30/13 11:17	09/07/13 09:30
250-14022-55	579-P19 (0-6)	Solid	08/30/13 13:01	09/07/13 09:30
250-14022-56	579-P19 (12-18)	Solid	08/30/13 13:20	09/07/13 09:30
250-14022-57	579-P19 (24-30)	Solid	08/30/13 13:26	09/07/13 09:30
250-14022-58	579-P20 (0-6)	Solid	08/30/13 13:46	09/07/13 09:30
250-14022-59	579-P20 (12-18)	Solid	08/30/13 13:53	09/07/13 09:30
250-14022-60	579-P20 (24-30)	Solid	08/30/13 14:01	09/07/13 09:30
250-14022-61	579-P21 (0-6)	Solid	08/30/13 14:14	09/07/13 09:30
250-14022-62	579-P21 (12-18)	Solid	08/30/13 14:23	09/07/13 09:30
250-14022-63	579-P21 (24-30)	Solid	08/30/13 14:31	09/07/13 09:30
250-14022-64	579-P22 (0-6)	Solid	08/30/13 14:56	09/07/13 09:30
250-14022-65	579-P22 (12-18)	Solid	08/30/13 15:12	09/07/13 09:30
250-14022-66	579-P22 (24-30)	Solid	08/30/13 15:28	09/07/13 09:30
250-14022-67	579-P23 (0-6)	Solid	08/30/13 16:02	09/07/13 09:30
250-14022-68	579-P23 (12-18)	Solid	08/30/13 16:10	09/07/13 09:30
250-14022-69	579-P23 (24-30)	Solid	08/30/13 16:23	09/07/13 09:30
250-14022-70	579-P24 (0-6)	Solid	08/31/13 08:08	09/07/13 09:30
250-14022-71	579-P24 (12-18)	Solid	08/31/13 08:19	09/07/13 09:30
250-14022-72	579-P24 (24-30)	Solid	08/31/13 08:31	09/07/13 09:30
250-14022-73	579-P25 (0-6)	Solid	08/31/13 08:47	09/07/13 09:30
250-14022-74	579-P25 (12-18)	Solid	08/31/13 08:53	09/07/13 09:30
250-14022-75	579-P25 (24-30)	Solid	08/31/13 09:13	09/07/13 09:30
250-14022-76	579-P26 (0-6)	Solid	08/31/13 09:27	09/07/13 09:30
250-14022-77	579-P26 (12-18)	Solid	08/31/13 09:40	09/07/13 09:30
250-14022-78	579-P26 (24-30)	Solid	08/31/13 09:46	09/07/13 09:30
250-14022-79	579-P27 (0-6)	Solid	08/31/13 10:01	09/07/13 09:30
250-14022-80	579-P27 (12-18)	Solid	08/31/13 10:15	09/07/13 09:30
250-14022-81	579-P27 (24-30)	Solid	08/31/13 10:20	09/07/13 09:30
250-14022-82	579-P7 (0-6) DUP	Solid	08/29/13 10:13	09/07/13 09:30
250-14022-83	579-P7 (12-18) DUP	Solid	08/29/13 10:19	09/07/13 09:30
250-14022-84	579-P7 (24-30) DUP	Solid	08/29/13 10:25	09/07/13 09:30
250-14022-85	579-P22 (0-6) DUP	Solid	08/30/13 14:56	09/07/13 09:30
250-14022-86	579-P22 (12-18) DUP	Solid	08/30/13 15:12	09/07/13 09:30
250-14022-87	579-P22 (24-30) DUP	Solid	08/30/13 15:28	09/07/13 09:30
250-14022-88	579-P10 (30-36)	Solid	08/29/13 13:12	09/07/13 09:30
250-14022-89	579-P19 (30-36)	Solid	08/30/13 13:29	09/07/13 09:30
250-14022-90	579-P27 (30-36)	Solid	08/31/13 10:29	09/07/13 09:30

Job ID: 250-14022-1

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-14022-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2013 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 23.9º C.

Metals
Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 579-P10 (0-6) (250-14022-28), 579-P10 (12-18) (250-14022-29), 579-P10 (24-30) (250-14022-30), 579-P11 (0-6) (250-14022-31), 579-P11 (12-18) (250-14022-32), 579-P11 (24-30) (250-14022-33), 579-P12 (0-6) (250-14022-34), 579-P12 (12-18) (250-14022-35), 579-P12 (24-30) (250-14022-36), 579-P7 (0-6) (250-14022-19), 579-P7 (12-18) (250-14022-20), 579-P7 (24-30) (250-14022-21), 579-P8 (0-6) (250-14022-22), 579-P8 (12-18) (250-14022-23), 579-P8 (24-30) (250-14022-24), 579-P9 (0-6) (250-14022-25), 579-P9 (12-18) (250-14022-26), 579-P9 (24-30) (250-14022-27). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: (250-14022-37 MS), (250-14022-37 MSD), 579-P13 (0-6) (250-14022-37), 579-P13 (12-18) (250-14022-38), 579-P13 (24-30) (250-14022-39), 579-P14 (0-6) (250-14022-40), 579-P14 (12-18) (250-14022-41), 579-P14 (24-30) (250-14022-42), 579-P15 (0-6) (250-14022-43), 579-P15 (12-18) (250-14022-44), 579-P15 (24-30) (250-14022-45), 579-P16 (0-6) (250-14022-46), 579-P16 (12-18) (250-14022-47), 579-P16 (24-30) (250-14022-48), 579-P17 (0-6) (250-14022-49), 579-P17 (12-18) (250-14022-50), 579-P17 (24-30) (250-14022-51), 579-P18 (0-6) (250-14022-52), 579-P18 (12-18) (250-14022-53), 579-P18 (24-30) (250-14022-54), 579-P19 (0-6) (250-14022-55), 579-P19 (12-18) (250-14022-56). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: (250-14022-57 MS), (250-14022-57 MSD), 579-P19 (24-30) (250-14022-57), 579-P20 (0-6) (250-14022-58), 579-P20 (12-18) (250-14022-59), 579-P20 (24-30) (250-14022-60), 579-P21 (0-6) (250-14022-61), 579-P21 (12-18) (250-14022-62), 579-P21 (24-30) (250-14022-63), 579-P22 (0-6) (250-14022-64), 579-P22 (12-18) (250-14022-65), 579-P22 (24-30) (250-14022-66), 579-P23 (0-6) (250-14022-67), 579-P23 (12-18) (250-14022-68), 579-P23 (24-30) (250-14022-69), 579-P24 (0-6) (250-14022-70), 579-P24 (12-18) (250-14022-71), 579-P24 (24-30) (250-14022-72). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 579-P1 (0-6) (250-14022-1), 579-P1 (12-18) (250-14022-2), 579-P1 (24-30) (250-14022-3), 579-P2 (0-6) (250-14022-4). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: (250-14022-5 MS), (250-14022-5 MSD), 579-P2 (12-18) (250-14022-5), 579-P2 (24-30) (250-14022-6), 579-P3 (0-6) (250-14022-7), 579-P3 (12-18) (250-14022-8), 579-P3 (24-30) (250-14022-9), 579-P4 (0-6) (250-14022-10), 579-P4 (12-18) (250-14022-11), 579-P4 (24-30) (250-14022-12), 579-P5 (0-6) (250-14022-13), 579-P5 (12-18) (250-14022-14), 579-P5 (24-30) (250-14022-15), 579-P6 (0-6) (250-14022-16), 579-P6 (12-18) (250-14022-17), 579-P6 (24-30) (250-14022-18). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 579-P22 (0-6) DUP (250-14022-85), 579-P22 (12-18) DUP (250-14022-86), 579-P25 (0-6) (250-14022-73), 579-P25 (12-18) (250-14022-74), 579-P25 (24-30) (250-14022-75), 579-P26 (0-6) (250-14022-76), 579-P26 (12-18) (250-14022-77), 579-P26 (24-30) (250-14022-78), 579-P27 (0-6) (250-14022-79), 579-P27 (12-18) (250-14022-80), 579-P27 (24-30) (250-14022-81), 579-P7 (0-6) DUP (250-14022-82), 579-P7 (12-18) DUP (250-14022-83), 579-P7 (24-30) DUP (250-14022-84). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: (250-14022-87 MS), (250-14022-87 MSD), 579-P10 (30-36) (250-14022-88), 579-P19 (30-36) (250-14022-89), 579-P22 (24-30) DUP (250-14022-87), 579-P27 (30-36) (250-14022-90). The reporting limits (RLs) have been adjusted proportionately.

Job ID: 250-14022-1 (Continued)

Laboratory: TestAmerica Portland (Continued)

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 250-19939 for Pb was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (250-14022-37 MSD)

No other analytical or quality issues were noted.

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.
F	MS/MSD Recovery and/or RPD exceeds the control limits

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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P1 (0-6) — **Lab Sample ID: 250-14022-1**
Date Collected: 08/28/13 15:50 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		6.4	1.1	mg/Kg		09/10/13 21:16	09/11/13 16:27	20

Client Sample ID: 579-P1 (12-18) — **Lab Sample ID: 250-14022-2**
Date Collected: 08/28/13 16:02 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		6.2	1.1	mg/Kg		09/10/13 21:16	09/11/13 16:30	20

Client Sample ID: 579-P1 (24-30) — **Lab Sample ID: 250-14022-3**
Date Collected: 08/28/13 16:10 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		6.2	1.1	mg/Kg		09/10/13 21:16	09/11/13 16:33	20

Client Sample ID: 579-P2 (0-6) — **Lab Sample ID: 250-14022-4**
Date Collected: 08/28/13 16:28 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	53		7.6	1.3	mg/Kg		09/10/13 21:16	09/11/13 16:37	20

Client Sample ID: 579-P2 (12-18) — **Lab Sample ID: 250-14022-5**
Date Collected: 08/28/13 16:40 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		6.3	1.1	mg/Kg		09/11/13 11:29	09/11/13 19:47	20

Client Sample ID: 579-P2 (24-30) — **Lab Sample ID: 250-14022-6**
Date Collected: 08/28/13 16:45 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.0	J	3.1	0.54	mg/Kg		09/11/13 11:29	09/11/13 23:33	10

Client Sample ID: 579-P3 (0-6) — **Lab Sample ID: 250-14022-7**
Date Collected: 08/29/13 07:54 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		5.6	0.97	mg/Kg		09/11/13 11:29	09/11/13 20:11	20

Client Sample ID: 579-P3 (12-18) — **Lab Sample ID: 250-14022-8**
Date Collected: 08/29/13 08:03 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.1	J	3.1	0.54	mg/Kg		09/11/13 11:29	09/11/13 23:36	10

Client Sample ID: 579-P3 (24-30) — **Lab Sample ID: 250-14022-9**
Date Collected: 08/29/13 08:10 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.99	J	3.2	0.56	mg/Kg		09/11/13 11:29	09/11/13 23:39	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P4 (0-6) — **Lab Sample ID: 250-14022-10**
Date Collected: 08/29/13 08:30 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43		6.5	1.1	mg/Kg		09/11/13 11:29	09/11/13 20:22	20

Client Sample ID: 579-P4 (12-18) — **Lab Sample ID: 250-14022-11**
Date Collected: 08/29/13 08:39 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		7.2	1.3	mg/Kg		09/11/13 11:29	09/11/13 20:25	20

Client Sample ID: 579-P4 (24-30) — **Lab Sample ID: 250-14022-12**
Date Collected: 08/29/13 08:45 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.1		3.1	0.54	mg/Kg		09/11/13 11:29	09/11/13 23:43	10

Client Sample ID: 579-P5 (0-6) — **Lab Sample ID: 250-14022-13**
Date Collected: 08/29/13 09:11 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		6.4	1.1	mg/Kg		09/11/13 11:29	09/11/13 20:31	20

Client Sample ID: 579-P5 (12-18) — **Lab Sample ID: 250-14022-14**
Date Collected: 08/29/13 09:17 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		5.9	1.0	mg/Kg		09/11/13 11:29	09/11/13 20:35	20

Client Sample ID: 579-P5 (24-30) — **Lab Sample ID: 250-14022-15**
Date Collected: 08/29/13 09:24 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		6.4	1.1	mg/Kg		09/11/13 11:29	09/11/13 20:48	20

Client Sample ID: 579-P6 (0-6) — **Lab Sample ID: 250-14022-16**
Date Collected: 08/29/13 09:42 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	410		6.6	1.2	mg/Kg		09/11/13 11:29	09/11/13 20:52	20

Client Sample ID: 579-P6 (12-18) — **Lab Sample ID: 250-14022-17**
Date Collected: 08/29/13 09:50 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	370		7.0	1.2	mg/Kg		09/11/13 11:29	09/11/13 20:55	20

Client Sample ID: 579-P6 (24-30) — **Lab Sample ID: 250-14022-18**
Date Collected: 08/29/13 09:55 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		7.4	1.3	mg/Kg		09/11/13 11:29	09/11/13 20:58	20

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P7 (0-6) — **Lab Sample ID: 250-14022-19**
Date Collected: 08/29/13 10:13 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		21	3.7	mg/Kg		09/10/13 09:22	09/10/13 17:12	50

Client Sample ID: 579-P7 (12-18) — **Lab Sample ID: 250-14022-20**
Date Collected: 08/29/13 10:19 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	84		18	3.1	mg/Kg		09/10/13 09:22	09/10/13 17:15	50

Client Sample ID: 579-P7 (24-30) — **Lab Sample ID: 250-14022-21**
Date Collected: 08/29/13 10:25 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.84	J	4.5	0.79	mg/Kg		09/10/13 09:22	09/10/13 19:12	10

Client Sample ID: 579-P8 (0-6) — **Lab Sample ID: 250-14022-22**
Date Collected: 08/29/13 10:31 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		18	3.1	mg/Kg		09/10/13 09:22	09/10/13 17:22	50

Client Sample ID: 579-P8 (12-18) — **Lab Sample ID: 250-14022-23**
Date Collected: 08/29/13 10:39 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.1	J	3.7	0.65	mg/Kg		09/10/13 09:22	09/10/13 19:15	10

Client Sample ID: 579-P8 (24-30) — **Lab Sample ID: 250-14022-24**
Date Collected: 08/29/13 10:57 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.0	J	4.2	0.73	mg/Kg		09/10/13 09:22	09/10/13 19:19	10

Client Sample ID: 579-P9 (0-6) — **Lab Sample ID: 250-14022-25**
Date Collected: 08/29/13 11:11 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	150		23	4.0	mg/Kg		09/10/13 09:22	09/10/13 17:32	50

Client Sample ID: 579-P9 (12-18) — **Lab Sample ID: 250-14022-26**
Date Collected: 08/29/13 11:18 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		18	3.2	mg/Kg		09/10/13 09:22	09/10/13 17:35	50

Client Sample ID: 579-P9 (24-30) — **Lab Sample ID: 250-14022-27**
Date Collected: 08/29/13 11:21 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		3.6	0.62	mg/Kg		09/10/13 09:22	09/10/13 19:22	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P10 (0-6)
Date Collected: 08/29/13 12:52
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-28
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		20	3.5	mg/Kg		09/10/13 09:22	09/10/13 17:52	50

Client Sample ID: 579-P10 (12-18)
Date Collected: 08/29/13 13:01
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-29
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	72		23	4.0	mg/Kg		09/10/13 09:22	09/10/13 17:56	50

Client Sample ID: 579-P10 (24-30)
Date Collected: 08/29/13 13:06
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-30
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		17	3.0	mg/Kg		09/10/13 09:22	09/10/13 17:59	50

Client Sample ID: 579-P11 (0-6)
Date Collected: 08/29/13 13:38
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-31
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		18	3.2	mg/Kg		09/10/13 09:22	09/10/13 18:02	50

Client Sample ID: 579-P11 (12-18)
Date Collected: 08/29/13 13:49
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		4.2	0.73	mg/Kg		09/10/13 09:22	09/10/13 19:25	10

Client Sample ID: 579-P11 (24-30)
Date Collected: 08/29/13 13:57
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-33
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.6		3.7	0.64	mg/Kg		09/10/13 09:22	09/10/13 19:39	10

Client Sample ID: 579-P12 (0-6)
Date Collected: 08/29/13 14:22
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-34
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210		19	3.3	mg/Kg		09/10/13 09:22	09/10/13 18:12	50

Client Sample ID: 579-P12 (12-18)
Date Collected: 08/29/13 14:36
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-35
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		18	3.2	mg/Kg		09/10/13 09:22	09/10/13 18:16	50

Client Sample ID: 579-P12 (24-30)
Date Collected: 08/29/13 14:52
Date Received: 09/07/13 09:30
Lab Sample ID: 250-14022-36
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		20	3.5	mg/Kg		09/10/13 09:22	09/10/13 18:19	50

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P13 (0-6) — **Lab Sample ID: 250-14022-37**
Date Collected: 08/29/13 15:22 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	310		8.4	1.5	mg/Kg		09/10/13 09:27	09/10/13 20:53	20

Client Sample ID: 579-P13 (12-18) — **Lab Sample ID: 250-14022-38**
Date Collected: 08/29/13 15:41 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	350		8.4	1.5	mg/Kg		09/10/13 09:27	09/10/13 21:03	20

Client Sample ID: 579-P13 (24-30) — **Lab Sample ID: 250-14022-39**
Date Collected: 08/29/13 15:48 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34		7.2	1.2	mg/Kg		09/10/13 09:27	09/10/13 21:08	20

Client Sample ID: 579-P14 (0-6) — **Lab Sample ID: 250-14022-40**
Date Collected: 08/30/13 08:27 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	220		9.6	1.7	mg/Kg		09/10/13 09:27	09/10/13 21:25	20

Client Sample ID: 579-P14 (12-18) — **Lab Sample ID: 250-14022-41**
Date Collected: 08/30/13 08:48 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	78		7.0	1.2	mg/Kg		09/10/13 09:27	09/10/13 21:29	20

Client Sample ID: 579-P14 (24-30) — **Lab Sample ID: 250-14022-42**
Date Collected: 08/30/13 08:52 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		7.6	1.3	mg/Kg		09/10/13 09:27	09/10/13 21:32	20

Client Sample ID: 579-P15 (0-6) — **Lab Sample ID: 250-14022-43**
Date Collected: 08/30/13 10:40 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		7.3	1.3	mg/Kg		09/10/13 09:27	09/10/13 21:35	20

Client Sample ID: 579-P15 (12-18) — **Lab Sample ID: 250-14022-44**
Date Collected: 08/30/13 10:50 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		7.7	1.3	mg/Kg		09/10/13 09:27	09/10/13 21:39	20

Client Sample ID: 579-P15 (24-30) — **Lab Sample ID: 250-14022-45**
Date Collected: 08/30/13 10:56 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.3	J	3.7	0.64	mg/Kg		09/10/13 09:27	09/11/13 00:15	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P16 (0-6) — **Lab Sample ID: 250-14022-46**
Date Collected: 08/31/13 10:42 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		8.9	1.5	mg/Kg		09/10/13 09:27	09/10/13 21:46	20

Client Sample ID: 579-P16 (12-18) — **Lab Sample ID: 250-14022-47**
Date Collected: 08/31/13 10:49 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		7.7	1.3	mg/Kg		09/10/13 09:27	09/10/13 21:49	20

Client Sample ID: 579-P16 (24-30) — **Lab Sample ID: 250-14022-48**
Date Collected: 08/31/13 11:00 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.0	J	3.8	0.67	mg/Kg		09/10/13 09:27	09/11/13 00:18	10

Client Sample ID: 579-P17 (0-6) — **Lab Sample ID: 250-14022-49**
Date Collected: 08/30/13 10:07 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	150		8.3	1.4	mg/Kg		09/10/13 09:27	09/10/13 22:06	20

Client Sample ID: 579-P17 (12-18) — **Lab Sample ID: 250-14022-50**
Date Collected: 08/30/13 10:18 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	41		9.4	1.6	mg/Kg		09/10/13 09:27	09/10/13 22:09	20

Client Sample ID: 579-P17 (24-30) — **Lab Sample ID: 250-14022-51**
Date Collected: 08/30/13 10:22 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.1		4.5	0.78	mg/Kg		09/10/13 09:27	09/11/13 00:21	10

Client Sample ID: 579-P18 (0-6) — **Lab Sample ID: 250-14022-52**
Date Collected: 08/30/13 11:08 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		7.8	1.4	mg/Kg		09/10/13 09:27	09/10/13 22:16	20

Client Sample ID: 579-P18 (12-18) — **Lab Sample ID: 250-14022-53**
Date Collected: 08/30/13 11:14 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	35		7.0	1.2	mg/Kg		09/10/13 09:27	09/10/13 22:19	20

Client Sample ID: 579-P18 (24-30) — **Lab Sample ID: 250-14022-54**
Date Collected: 08/30/13 11:17 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8	J	3.5	0.61	mg/Kg		09/10/13 09:27	09/11/13 00:25	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P19 (0-6) — **Lab Sample ID: 250-14022-55**
Date Collected: 08/30/13 13:01 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		8.7	1.5	mg/Kg		09/10/13 09:27	09/10/13 22:26	20

Client Sample ID: 579-P19 (12-18) — **Lab Sample ID: 250-14022-56**
Date Collected: 08/30/13 13:20 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	38		7.8	1.4	mg/Kg		09/10/13 09:27	09/10/13 22:29	20

Client Sample ID: 579-P19 (24-30) — **Lab Sample ID: 250-14022-57**
Date Collected: 08/30/13 13:26 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9	J	3.5	0.60	mg/Kg		09/10/13 10:16	09/11/13 00:31	10

Client Sample ID: 579-P20 (0-6) — **Lab Sample ID: 250-14022-58**
Date Collected: 08/30/13 13:46 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	63		8.0	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:03	20

Client Sample ID: 579-P20 (12-18) — **Lab Sample ID: 250-14022-59**
Date Collected: 08/30/13 13:53 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		7.8	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:06	20

Client Sample ID: 579-P20 (24-30) — **Lab Sample ID: 250-14022-60**
Date Collected: 08/30/13 14:01 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.5	J	4.0	0.69	mg/Kg		09/10/13 10:16	09/11/13 00:42	10

Client Sample ID: 579-P21 (0-6) — **Lab Sample ID: 250-14022-61**
Date Collected: 08/30/13 14:14 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250		7.5	1.3	mg/Kg		09/10/13 10:16	09/10/13 23:13	20

Client Sample ID: 579-P21 (12-18) — **Lab Sample ID: 250-14022-62**
Date Collected: 08/30/13 14:23 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	41		7.5	1.3	mg/Kg		09/10/13 10:16	09/10/13 23:28	20

Client Sample ID: 579-P21 (24-30) — **Lab Sample ID: 250-14022-63**
Date Collected: 08/30/13 14:31 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23		7.8	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:31	20

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P22 (0-6) — **Lab Sample ID: 250-14022-64**
Date Collected: 08/30/13 14:56 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	85		8.7	1.5	mg/Kg		09/10/13 10:16	09/10/13 23:34	20

Client Sample ID: 579-P22 (12-18) — **Lab Sample ID: 250-14022-65**
Date Collected: 08/30/13 15:12 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25		7.4	1.3	mg/Kg		09/10/13 10:16	09/10/13 23:38	20

Client Sample ID: 579-P22 (24-30) — **Lab Sample ID: 250-14022-66**
Date Collected: 08/30/13 15:28 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4	J	3.7	0.64	mg/Kg		09/10/13 10:16	09/11/13 00:56	10

Client Sample ID: 579-P23 (0-6) — **Lab Sample ID: 250-14022-67**
Date Collected: 08/30/13 16:02 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	380		8.0	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:44	20

Client Sample ID: 579-P23 (12-18) — **Lab Sample ID: 250-14022-68**
Date Collected: 08/30/13 16:10 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	300		7.9	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:48	20

Client Sample ID: 579-P23 (24-30) — **Lab Sample ID: 250-14022-69**
Date Collected: 08/30/13 16:23 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		8.2	1.4	mg/Kg		09/10/13 10:16	09/10/13 23:51	20

Client Sample ID: 579-P24 (0-6) — **Lab Sample ID: 250-14022-70**
Date Collected: 08/31/13 08:08 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	64		7.8	1.3	mg/Kg		09/10/13 10:16	09/10/13 23:54	20

Client Sample ID: 579-P24 (12-18) — **Lab Sample ID: 250-14022-71**
Date Collected: 08/31/13 08:19 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		7.0	1.2	mg/Kg		09/10/13 10:16	09/10/13 23:58	20

Client Sample ID: 579-P24 (24-30) — **Lab Sample ID: 250-14022-72**
Date Collected: 08/31/13 08:31 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31		8.2	1.4	mg/Kg		09/10/13 10:16	09/11/13 00:11	20

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P25 (0-6) — **Lab Sample ID: 250-14022-73**
Date Collected: 08/31/13 08:47 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		7.4	1.3	mg/Kg		09/11/13 11:32	09/11/13 22:33	20

Client Sample ID: 579-P25 (12-18) — **Lab Sample ID: 250-14022-74**
Date Collected: 08/31/13 08:53 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		5.8	1.0	mg/Kg		09/11/13 11:32	09/11/13 22:36	20

Client Sample ID: 579-P25 (24-30) — **Lab Sample ID: 250-14022-75**
Date Collected: 08/31/13 09:13 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		6.0	1.0	mg/Kg		09/11/13 11:32	09/11/13 22:39	20

Client Sample ID: 579-P26 (0-6) — **Lab Sample ID: 250-14022-76**
Date Collected: 08/31/13 09:27 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	320		6.0	1.0	mg/Kg		09/11/13 11:32	09/11/13 22:43	20

Client Sample ID: 579-P26 (12-18) — **Lab Sample ID: 250-14022-77**
Date Collected: 08/31/13 09:40 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		5.7	0.99	mg/Kg		09/11/13 11:32	09/11/13 22:46	20

Client Sample ID: 579-P26 (24-30) — **Lab Sample ID: 250-14022-78**
Date Collected: 08/31/13 09:46 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7	J	3.7	0.64	mg/Kg		09/11/13 11:32	09/12/13 15:10	10

Client Sample ID: 579-P27 (0-6) — **Lab Sample ID: 250-14022-79**
Date Collected: 08/31/13 10:01 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		5.9	1.0	mg/Kg		09/11/13 11:32	09/11/13 22:49	20

Client Sample ID: 579-P27 (12-18) — **Lab Sample ID: 250-14022-80**
Date Collected: 08/31/13 10:15 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		6.4	1.1	mg/Kg		09/11/13 11:32	09/11/13 22:52	20

Client Sample ID: 579-P27 (24-30) — **Lab Sample ID: 250-14022-81**
Date Collected: 08/31/13 10:20 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.3	J	3.3	0.58	mg/Kg		09/11/13 11:32	09/12/13 23:03	10

Method: 6020 - Metals (ICP/MS)

Client Sample ID: 579-P7 (0-6) DUP — **Lab Sample ID: 250-14022-82**
Date Collected: 08/29/13 10:13 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180		5.8	1.0	mg/Kg		09/11/13 11:32	09/11/13 23:06	20

Client Sample ID: 579-P7 (12-18) DUP — **Lab Sample ID: 250-14022-83**
Date Collected: 08/29/13 10:19 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		7.8	1.4	mg/Kg		09/11/13 11:32	09/11/13 23:09	20

Client Sample ID: 579-P7 (24-30) DUP — **Lab Sample ID: 250-14022-84**
Date Collected: 08/29/13 10:25 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.5	J	3.5	0.62	mg/Kg		09/11/13 11:32	09/13/13 13:41	10

Client Sample ID: 579-P22 (0-6) DUP — **Lab Sample ID: 250-14022-85**
Date Collected: 08/30/13 14:56 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		7.0	1.2	mg/Kg		09/11/13 11:32	09/11/13 23:16	20

Client Sample ID: 579-P22 (12-18) DUP — **Lab Sample ID: 250-14022-86**
Date Collected: 08/30/13 15:12 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		7.1	1.2	mg/Kg		09/11/13 11:32	09/11/13 23:19	20

Client Sample ID: 579-P22 (24-30) DUP — **Lab Sample ID: 250-14022-87**
Date Collected: 08/30/13 15:28 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.8		2.2	0.38	mg/Kg		09/12/13 13:19	09/12/13 23:09	10

Client Sample ID: 579-P10 (30-36) — **Lab Sample ID: 250-14022-88**
Date Collected: 08/29/13 13:12 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	230		4.0	0.70	mg/Kg		09/12/13 13:19	09/12/13 20:59	20

Client Sample ID: 579-P19 (30-36) — **Lab Sample ID: 250-14022-89**
Date Collected: 08/30/13 13:29 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.0		2.0	0.35	mg/Kg		09/12/13 13:19	09/12/13 23:30	10

Client Sample ID: 579-P27 (30-36) — **Lab Sample ID: 250-14022-90**
Date Collected: 08/31/13 10:29 — **Matrix: Solid**
Date Received: 09/07/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.9	J	2.1	0.37	mg/Kg		09/12/13 13:19	09/12/13 23:33	10

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-19939/1-A
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48	0.084	mg/Kg		09/10/13 09:27	09/10/13 20:43	10

Lab Sample ID: LCS 250-19939/2-A
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.8	49.4		mg/Kg		99	80 - 120

Lab Sample ID: 250-14022-37 MS
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: 579-P13 (0-6)
Prep Type: Total/NA
Prep Batch: 19939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	310		455	865		mg/Kg		122	75 - 125

Lab Sample ID: 250-14022-37 MSD
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: 579-P13 (0-6)
Prep Type: Total/NA
Prep Batch: 19939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	310		482	972	F	mg/Kg		137	75 - 125	12	40

Lab Sample ID: MB 250-19940/1-A
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48	0.084	mg/Kg		09/10/13 10:16	09/10/13 22:43	10

Lab Sample ID: LCS 250-19940/2-A
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.6	48.3		mg/Kg		97	80 - 120

Lab Sample ID: 250-14022-57 MS
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: 579-P19 (24-30)
Prep Type: Total/NA
Prep Batch: 19940

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.9	J	403	387		mg/Kg		96	75 - 125

Lab Sample ID: 250-14022-57 MSD
Matrix: Solid
Analysis Batch: 20005

Client Sample ID: 579-P19 (24-30)
Prep Type: Total/NA
Prep Batch: 19940

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.9	J	421	414		mg/Kg		98	75 - 125	7	40

Lab Sample ID: MB 250-19996/1-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19996

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.49	0.085	mg/Kg		09/10/13 21:16	09/11/13 14:56	10

Lab Sample ID: LCS 250-19996/2-A
Matrix: Solid
Analysis Batch: 20031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.5	48.0		mg/Kg		97	80 - 120

Lab Sample ID: MB 250-19997/1-A
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48	0.083	mg/Kg		09/11/13 11:29	09/11/13 19:37	10

Lab Sample ID: LCS 250-19997/2-A
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	48.6	47.7		mg/Kg		98	80 - 120

Lab Sample ID: 250-14022-5 MS
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: 579-P2 (12-18)
Prep Type: Total/NA
Prep Batch: 19997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	11		357	361		mg/Kg		98	75 - 125

Lab Sample ID: 250-14022-5 MSD
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: 579-P2 (12-18)
Prep Type: Total/NA
Prep Batch: 19997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	11		314	321		mg/Kg		99	75 - 125	12	40

Lab Sample ID: MB 250-20008/1-A
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.48	0.084	mg/Kg		09/11/13 11:32	09/11/13 21:44	10

Lab Sample ID: LCS 250-20008/2-A
Matrix: Solid
Analysis Batch: 20035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	48.4	46.9		mg/Kg		97	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 250-20058/1-A
Matrix: Solid
Analysis Batch: 20085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.087	mg/Kg		09/12/13 13:19	09/12/13 20:28	10

Lab Sample ID: LCS 250-20058/2-A
Matrix: Solid
Analysis Batch: 20085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20058

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			49.3	54.3		mg/Kg		110	80 - 120		

Lab Sample ID: 250-14022-87 MS
Matrix: Solid
Analysis Batch: 20085

Client Sample ID: 579-P22 (24-30) DUP
Prep Type: Total/NA
Prep Batch: 20058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	2.8		211	217		mg/Kg		102	75 - 125		

Lab Sample ID: 250-14022-87 MSD
Matrix: Solid
Analysis Batch: 20085

Client Sample ID: 579-P22 (24-30) DUP
Prep Type: Total/NA
Prep Batch: 20058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.8		221	232		mg/Kg		103	75 - 125	7	40

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14022-1
SDG: PNG0572

Laboratory: TestAmerica Portland

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-012	12-26-13
California	State Program	9	2597	09-30-13
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14022-1
SDG: PNG0572

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PRT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Laboratory: Test America Seattle, 5755 8th Street East, Tacoma, WA 98424. 253.922.2310 (p) 25

250-14022 Chain of Custody

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	Swakefield, J.STONE		

TURNAROUND REQUEST in Business Days *

Organic and Inorganic Analyses: ☐ 7 ☒ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1

Petroleum Hydrocarbon Analyses: ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1

OTHER Specify:

** Turnaround Requests less than standard may incur Rush Charges.*

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	PRESERVATIVE / REQUESTED ANALYSES: Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
1	579-P1 (0-6)	(0-6)	8-28-13	15:50	x	Soil	1		
2	579-P1 (12-18)	(12-18)	↓	16:02	x	Soil	1		
3	579-P1 (24-30)	(24-30)	↓	16:10	x	Soil	1		
4	579-P2 (0-6)	(0-6)	8-28-13	16:28	x	Soil	1		
5	579-P2 (12-18)	(12-18)	↓	16:40	x	Soil	1		
6	579-P2 (24-30)	(24-30)	↓	16:45	x	Soil	1		
7	579-P3 (0-6)	(0-6)	8-29-13	07:54	x	Soil	1		
8	579-P3 (12-18)	(12-18)	↓	08:03	x	Soil	1		
9	579-P3 (24-30)	(24-30)	↓	08:10	x	Soil	1		
10	579-P4 (0-6)	(0-6)	8-29-13	08:30	x	Soil	1		
11	579-P4 (12-18)	(12-18)	↓	08:39	x	Soil	1		
12	579-P4 (24-30)	(24-30)	↓	08:45	x	Soil	1		
13	579-P5 (0-6)	(0-6)	8-29-13	09:11	x	Soil	1		
14	579-P5 (12-18)	(12-18)	↓	09:17	x	Soil	1		
15	579-P5 (24-30)	(24-30)	↓	09:24	x	Soil	1		
16	579-P6 (0-6)	(0-6)	8-29-13	09:42	x	Soil	1		
17	579-P6 (12-18)	(12-18)	↓	09:50	x	Soil	1		
18	579-P6 (24-30)	(24-30)	↓	09:55	x	Soil	1		
19	579-P7 (0-6)	(0-6)	8-29-13	10:13	x	Soil	1		
20	579-P7 (12-18)	(12-18)	↓	10:19	x	Soil	1		
21	579-P7 (24-30)	(24-30)	↓	10:25	x	Soil	1		
22	579-P8 (0-6)	(0-6)	8-29-13	10:31	x	Soil	1		
23	579-P8 (12-18)	(12-18)	↓	10:39	x	Soil	1		
24	579-P8 (24-30)	(24-30)	↓	10:57	x	Soil	1		
25	579-P9 (0-6)	(0-6)	8-29-13	11:11	x	Soil	1		
26	579-P9 (12-18)	(12-18)	↓	11:18	x	Soil	1		
27	579-P9 (24-30)	(24-30)	↓	11:21	x	Soil	1		
28	579-P10 (0-6)	(0-6)	8-29-13	12:52	x	Soil	1		
29	579-P10 (12-18)	(12-18)	↓	13:01	x	Soil	1		
30	579-P10 (24-30)	(24-30)	↓	13:06	x	Soil	1		

RELINQUISHED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: Kristie Reilly FIRM: TA DATE: 9/6/13 TIME: 10:45

RELINQUISHED BY: PRINT NAME: Kristie Reilly Date FIRM: TA DATE: 9/6/13 TIME: 11:15

RECEIVED BY: PRINT NAME: [illegible] FIRM: TA DATE: 9/9/13 TIME: 0938

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)

If not "all", specify:

TEMP: 23.9

BLNG 579

PAGE 1 OF 3

COC Rev 1, 5/04

Laboratory: Test America Seattle, 5755 8th Street East, Tacmoa, WA 98424. 253.922.2310 (p) 253.922.5047 (f)

14022

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	Swakefield, JSTONE		

TURNAROUND REQUEST in Business Days *
Organic and Inorganic Analyses
☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1
Petroleum Hydrocarbon Analyses
☐5 ☐4 ☐3 ☐2 ☐1 ☐<1

OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	PRESERVATIVE / REQUESTED ANALYSES: Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
31	579-P11 (0-6)	(0-6)	8-29-13	13:38	x	Soil	1		
32	579-P11 (12-18)	(12-18)	↓	13:49	x	Soil	1		
33	579-P11 (24-30)	(24-30)	↓	13:57	x	Soil	1		
34	579-P12 (0-6)	(0-6)	8-29-13	14:22	x	Soil	1		
35	579-P12 (12-18)	(12-18)	↓	14:36	x	Soil	1		
36	579-P12 (24-30)	(24-30)	↓	14:52	x	Soil	1		
37	579-P13 (0-6)	(0-6)	8-29-13	15:22	x	Soil	1		
38	579-P13 (12-18)	(12-18)	↓	15:41	x	Soil	1		
39	579-P13 (24-30)	(24-30)	↓	15:48	x	Soil	1		
40	579-P14 (0-6)	(0-6)	8-30-13	08:27	x	Soil	1		
41	579-P14 (12-18)	(12-18)	↓	08:48	x	Soil	1		
42	579-P14 (24-30)	(24-30)	↓	08:52	x	Soil	1		
43	579-P15 (0-6)	(0-6)	8-30-13	10:40	x	Soil	1		
44	579-P15 (12-18)	(12-18)	↓	10:50	x	Soil	1		
45	579-P15 (24-30)	(24-30)	↓	10:56	x	Soil	1		
46	579-P16 (0-6)	(0-6)	8-31-13	10:42	x	Soil	1		
47	579-P16 (12-18)	(12-18)	↓	10:49	x	Soil	1		
48	579-P16 (24-30)	(24-30)	↓	11:00	x	Soil	1		
49	579-P17 (0-6)	(0-6)	8-30-13	10:07	x	Soil	1		
50	579-P17 (12-18)	(12-18)	↓	10:18	x	Soil	1		
51	579-P17 (24-30)	(24-30)	↓	10:22	x	Soil	1		
52	579-P18 (0-6)	(0-6)	8-30-13	11:08	x	Soil	1		
53	579-P18 (12-18)	(12-18)	↓	11:14	x	Soil	1		
54	579-P18 (24-30)	(24-30)	↓	11:17	x	Soil	1		
55	579-P19 (0-6)	(0-6)	8-30-13	13:01	x	Soil	1		
56	579-P19 (12-18)	(12-18)	↓	13:20	x	Soil	1		
57	579-P19 (24-30)	(24-30)	↓	13:26	x	Soil	1		
58	579-P20 (0-6)	(0-6)	8-30-13	13:46	x	Soil	1		
59	579-P20 (12-18)	(12-18)	↓	13:53	x	Soil	1		
60	579-P20 (24-30)	(24-30)	↓	14:01	x	Soil	1		

RELINQUISHED BY: PRINT NAME:		FIRM:	DATE: TIME:	RECEIVED BY: PRINT NAME: Kristie Reilly	FIRM: TA	DATE: 9/6/13 TIME: 10:115 246° no ice
RELINQUISHED BY: PRINT NAME: Kristie Reilly		FIRM: TA	DATE: 9/6/13 TIME: 11:15	RECEIVED BY: PRINT NAME:	FIRM: TA	DATE: 9/7/13 TIME: 8:00

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)
If not "all", specify:

TEMP: 23.9

BLDG 579

PAGE 2 OF 3

COC Rev 1, 5/04

Laboratory: Test America Seattle, 5755 8th Street East, Tacoma, WA 98424. 253.922.2310 (p) 253.922.5047 (f)

14022

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey		Attention Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600		621 SW Morrison Street, Suite 600
	Portland, Oregon 97205		Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	Swakefield, J.STONE		

TURNAROUND REQUEST in Business Days *
Organic and Inorganic Analyses: ☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1
Petroleum Hydrocarbon Analyses: ☐5 ☐4 ☐3 ☐2 ☐1 ☐<1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION		SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	PRESERVATIVE / REQUESTED ANALYSES: Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
61	579-P21 (0-6)		(0-6)	8-30-13	14:14	x	Soil	1		
62	579-P21 (12-18)		(12-18)	↓	14:23	x	Soil	1		
63	579-P21 (24-30)		(24-30)	↓	14:31	x	Soil	1		
64	579-P22 (0-6)		(0-6)	8-30-13	14:56	x	Soil	1		
65	579-P22 (12-18)		(12-18)	↓	15:12	x	Soil	1		
66	579-P22 (24-30)		(24-30)	↓	15:28	x	Soil	1		
67	579-P23 (0-6)		(0-6)	8-30-13	16:02	x	Soil	1		
68	579-P23 (12-18)		(12-18)	↓	16:10	x	Soil	1		
69	579-P23 (24-30)		(24-30)	↓	16:23	x	Soil	1		
70	579-P24 (0-6)		(0-6)	8-31-13	08:08	x	Soil	1		
71	579-P24 (12-18)		(12-18)	↓	08:19	x	Soil	1		
72	579-P24 (24-30)		(24-30)	↓	08:31	x	Soil	1		
73	579-P25 (0-6)		(0-6)	8-31-13	08:47	x	Soil	1		
74	579-P25 (12-18)		(12-18)	↓	08:53	x	Soil	1		
75	579-P25 (24-30)		(24-30)	↓	09:13	x	Soil	1		
76	579-P26 (0-6)		(0-6)	8-31-13	09:27	x	Soil	1		
77	579-P26 (12-18)		(12-18)	↓	09:40	x	Soil	1		
78	579-P26 (24-30)		(24-30)	↓	09:46	x	Soil	1		
79	579-P27 (0-6)		(0-6)	8-31-13	10:01	x	Soil	1		
80	579-P27 (12-18)		(12-18)	↓	10:15	x	Soil	1		
81	579-P27 (24-30)		(24-30)	↓	10:20	x	Soil	1		
82	579-P7 (0-6)	DUP	(0-6)	8-29-13	10:13	x	Soil	1		
83	579-P7 (12-18)	DUP	(12-18)	↓	10:19	x	Soil	1		
84	579-P7 (24-30)	DUP	(24-30)	↓	10:25	x	Soil	1		
85	579-P22 (0-6)	DUP	(0-6)	8-30-13	14:56	x	Soil	1		
86	579-P22 (12-18)	DUP	(12-18)	↓	15:12	x	Soil	1		
87	579-P22 (24-30)	DUP	(24-30)	↓	15:28	x	Soil	1		
88	579-P10 (30-36)		(30-36)	8-29-13	13:12	x	Soil	1		
89	579-P19 (30-36)		(30-36)	8-30-13	13:29	x	Soil	1		
90	579-P27 (30-36)		(30-36)	8-31-13	10:29	x	Soil	1		

RELINQUISHED BY: PRINT NAME:		FIRM:	DATE: TIME:	RECEIVED BY: PRINT NAME: Kristie Reilly	FIRM: TA	DATE: 9/6/13 TIME: 10:45
RELINQUISHED BY: PRINT NAME: Kristie Reilly		FIRM: TA	DATE: 9/6/13 TIME: 10:15	RECEIVED BY: PRINT NAME:	FIRM: TA	DATE: 9/7/13 TIME: 0950

24.6°C no Re.

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)
If not "all", specify:

TEMP: 23.9°C

BLDG 579

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COC Rev 1, 5/04

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 250-14022-1
SDG Number: PNG0572

Login Number: 14022
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
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.	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: 580-40859-1
Client Project/Site: Midway Soil Sampling 2013
Revision: 1

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Kristine D. Allen

Authorized for release by:
11/14/2013 2:18:06 PM

Kristine Allen, Manager of Project Management
(253)922-2310
kristine.allen@testamericainc.com

Table of Contents

Job ID: 580-40859-1

Laboratory: TestAmerica Seattle

Narrative

Comments
Report was revised on 11-14-13 to correct the sample receipt dates for samples Bldg 578 (580-40859-1) and Bldg 578 Dup 1(580-40859-2).

Receipt
The samples were received on 10/12/2013 9:45 AM. The temperature of the cooler at receipt was 21.7º C.

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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 578
Date Collected: 10/08/13 16:15
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-1
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		3.0		mg/Kg		10/25/13 14:15	10/28/13 17:44	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 578 Dup 1
Date Collected: 10/08/13 00:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-2
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		2.9		mg/Kg		10/25/13 14:15	10/28/13 18:08	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 578 Dup 2
Date Collected: 10/08/13 00:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-3
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.9		mg/Kg		10/25/13 14:15	10/28/13 18:11	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 579
Date Collected: 10/05/13 08:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-4
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.9		3.0		mg/Kg		10/25/13 14:15	10/28/13 18:14	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 579 Dup 1
Date Collected: 10/05/13 00:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-5
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		2.9		mg/Kg		10/25/13 14:15	10/28/13 18:18	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 579 Dup 2
Date Collected: 10/05/13 00:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-6
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.9		mg/Kg		10/25/13 14:15	10/28/13 18:21	10

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: MEP 2013
Date Collected: 10/08/13 17:00
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-7
Matrix: Solid

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:19	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:34	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:45	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:06	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:17	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:28	1
Lead	**10**		10		ug/L		11/10/13 11:48	11/11/13 11:38	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:49	1
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 12:10	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P13 (0-6)
Date Collected: 10/03/13 10:15
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-8
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22		1.3		mg/Kg		10/26/13 14:48	10/28/13 14:08	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P13 (12-18)
Date Collected: 10/03/13 10:25
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-9
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0		mg/Kg		10/26/13 14:48	10/28/13 14:12	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P13 (24-30)
Date Collected: 10/03/13 10:40
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-10
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.4		mg/Kg		10/26/13 14:48	10/28/13 14:15	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P12 (0-6)
Date Collected: 10/03/13 09:05
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-11
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		1.4		mg/Kg		10/26/13 14:48	10/28/13 14:19	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P12 (12-18)
Date Collected: 10/03/13 09:40
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-12
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.7		1.4		mg/Kg		10/26/13 14:48	10/28/13 14:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: 2404-P12 (24-30)
Date Collected: 10/03/13 09:55
Date Received: 10/12/13 09:45

Lab Sample ID: 580-40859-13
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.2		mg/Kg		10/26/13 14:48	10/28/13 14:26	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-148020/10-A
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 148020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		mg/Kg		10/25/13 14:15	10/28/13 17:32	1

Lab Sample ID: LCS 580-148020/11-A
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 148020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	48.0		mg/Kg		96	80 - 120		

Lab Sample ID: LCSD 580-148020/12-A
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 148020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	49.3		mg/Kg		99	80 - 120	3	20

Lab Sample ID: 580-40859-1 MS
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Bldg 578
Prep Type: Total/NA
Prep Batch: 148020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	10		9.74	21.7		mg/Kg		117	80 - 120		

Lab Sample ID: 580-40859-1 MSD
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Bldg 578
Prep Type: Total/NA
Prep Batch: 148020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	10		9.67	18.4		mg/Kg		84	80 - 120	17	20

Lab Sample ID: 580-40859-1 DU
Matrix: Solid
Analysis Batch: 148166

Client Sample ID: Bldg 578
Prep Type: Total/NA
Prep Batch: 148020

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	10		9.86		mg/Kg		4	20

Lab Sample ID: MB 580-148044/19-A
Matrix: Solid
Analysis Batch: 148133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 148044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5		mg/Kg		10/26/13 14:48	10/28/13 13:01	1

Lab Sample ID: LCS 580-148044/20-A
Matrix: Solid
Analysis Batch: 148133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 148044

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	48.8		mg/Kg		98	80 - 120		

Lab Sample ID: LCSD 580-148044/21-A
Matrix: Solid
Analysis Batch: 148133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 148044

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	47.7		mg/Kg		95	80 - 120	2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-89310/1-A
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 89310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 09:57	1

Lab Sample ID: LCS 180-89310/2-A
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 89310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			500	491		ug/L		98	80 - 120		

Lab Sample ID: LCSD 180-89310/3-A
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 89310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			500	497		ug/L		99	80 - 120	1	20

Lab Sample ID: LB 180-88111/2-B LB
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Method Blank
Prep Type: Leach
Prep Batch: 89310

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:13	1

Lab Sample ID: LB 180-88260/2-B LB
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Method Blank
Prep Type: Leach
Prep Batch: 89310

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:29	1

Lab Sample ID: LB 180-88377/2-B LB
Matrix: Solid
Analysis Batch: 89389

Client Sample ID: Method Blank
Prep Type: Leach
Prep Batch: 89310

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 10:40	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 180-88530/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:01	1

Lab Sample ID: LB 180-88617/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:12	1

Lab Sample ID: LB 180-88779/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:22	1

Lab Sample ID: LB 180-88888/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:33	1

Lab Sample ID: LB 180-88997/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 11:44	1

Lab Sample ID: LB 180-89138/2-B LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 89389 — **Prep Batch: 89310**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10		ug/L		11/10/13 11:48	11/11/13 12:05	1

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Client Sample ID: Bldg 578
Lab Sample ID: 580-40859-1
Date Collected: 10/08/13 16:15
Matrix: Solid
Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 17:44	HJM	TAL SEA

Client Sample ID: Bldg 578 Dup 1
Lab Sample ID: 580-40859-2
Date Collected: 10/08/13 00:00
Matrix: Solid
Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 18:08	HJM	TAL SEA

Client Sample ID: Bldg 578 Dup 2
Lab Sample ID: 580-40859-3
Date Collected: 10/08/13 00:00
Matrix: Solid
Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 18:11	HJM	TAL SEA

Client Sample ID: Bldg 579
Lab Sample ID: 580-40859-4
Date Collected: 10/05/13 08:00
Matrix: Solid
Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 18:14	HJM	TAL SEA

Client Sample ID: Bldg 579 Dup 1
Lab Sample ID: 580-40859-5
Date Collected: 10/05/13 00:00
Matrix: Solid
Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 18:18	HJM	TAL SEA

Client Sample ID: Bldg 579 Dup 2

Lab Sample ID: 580-40859-6

Date Collected: 10/05/13 00:00

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Increm, Prep			147748	10/22/13 11:14	HJM	TAL SEA
Total/NA	Prep	3050B			148020	10/25/13 14:15	PAB	TAL SEA
Total/NA	Analysis	6010B		10	148166	10/28/13 18:21	HJM	TAL SEA

Client Sample ID: MEP 2013

Lab Sample ID: 580-40859-7

Date Collected: 10/08/13 17:00

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			88111	10/28/13 16:14	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 10:19	RJG	TAL PIT
Leach	Leach	1320			88260	10/29/13 16:55	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 10:34	RJG	TAL PIT
Leach	Leach	1320			88377	10/30/13 12:53	LEM	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 10:45	RJG	TAL PIT
Leach	Leach	1320			88530	10/31/13 16:09	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 11:06	RJG	TAL PIT
Leach	Leach	1320			88617	11/01/13 16:38	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 11:17	RJG	TAL PIT
Leach	Leach	1320			88779	11/04/13 15:51	SWP	TAL PIT
Leach	Prep	3010A			89310	11/10/13 11:48	CEH	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 11:28	RJG	TAL PIT
Leach	Leach	1320			88888	11/05/13 15:31	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 11:38	RJG	TAL PIT
Leach	Leach	1320			88997	11/06/13 17:04	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 11:49	RJG	TAL PIT
Leach	Leach	1320			89138	11/07/13 17:24	SWP	TAL PIT
Leach	Analysis	6010C		1	89389	11/11/13 12:10	RJG	TAL PIT

Client Sample ID: 2404-P13 (0-6)

Lab Sample ID: 580-40859-8

Date Collected: 10/03/13 10:15

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA
Total/NA	Analysis	6010B		1	148133	10/28/13 14:08	HJM	TAL SEA

Client Sample ID: 2404-P13 (12-18)

Lab Sample ID: 580-40859-9

Date Collected: 10/03/13 10:25

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA

Client Sample ID: 2404-P13 (12-18)

Lab Sample ID: 580-40859-9

Date Collected: 10/03/13 10:25

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	148133	10/28/13 14:12	HJM	TAL SEA

Client Sample ID: 2404-P13 (24-30)

Lab Sample ID: 580-40859-10

Date Collected: 10/03/13 10:40

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA
Total/NA	Analysis	6010B		1	148133	10/28/13 14:15	HJM	TAL SEA

Client Sample ID: 2404-P12 (0-6)

Lab Sample ID: 580-40859-11

Date Collected: 10/03/13 09:05

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA
Total/NA	Analysis	6010B		1	148133	10/28/13 14:19	HJM	TAL SEA

Client Sample ID: 2404-P12 (12-18)

Lab Sample ID: 580-40859-12

Date Collected: 10/03/13 09:40

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA
Total/NA	Analysis	6010B		1	148133	10/28/13 14:22	HJM	TAL SEA

Client Sample ID: 2404-P12 (24-30)

Lab Sample ID: 580-40859-13

Date Collected: 10/03/13 09:55

Matrix: Solid

Date Received: 10/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			148044	10/26/13 14:48	PAB	TAL SEA
Total/NA	Analysis	6010B		1	148133	10/28/13 14:26	HJM	TAL SEA

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: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

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	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

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	06-27-14
California	NELAP	9	4224CA	03-31-14
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-14
Illinois	NELAP	5	002602	06-30-14
Kansas	NELAP	7	E-10350	01-31-14
L-A-B	DoD ELAP		L2314	07-16-16
Louisiana	NELAP	6	04041	06-30-13 *
New Hampshire	NELAP	1	203011	04-05-14
New Jersey	NELAP	2	PA005	06-30-14
New York	NELAP	2	11182	04-01-14
North Carolina DENR	State Program	4	434	12-31-13
Pennsylvania	NELAP	3	02-00416	04-30-14
South Carolina	State Program	4	89014	04-30-14
US Fish & Wildlife	Federal		LE94312A-1	11-30-14
USDA	Federal		P330-10-00139	05-23-16
Utah	NELAP	8	STLP	04-30-14
Virginia	NELAP	3	460189	09-14-14
West Virginia DEP	State Program	3	142	01-31-14
Wisconsin	State Program	5	998027800	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 580-40859-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-40859-1	Bldg 578	Solid	10/08/13 16:15	10/12/13 09:45
580-40859-2	Bldg 578 Dup 1	Solid	10/08/13 00:00	10/12/13 09:45
580-40859-3	Bldg 578 Dup 2	Solid	10/08/13 00:00	10/12/13 09:45
580-40859-4	Bldg 579	Solid	10/05/13 08:00	10/12/13 09:45
580-40859-5	Bldg 579 Dup 1	Solid	10/05/13 00:00	10/12/13 09:45
580-40859-6	Bldg 579 Dup 2	Solid	10/05/13 00:00	10/12/13 09:45
580-40859-7	MEP 2013	Solid	10/08/13 17:00	10/12/13 09:45
580-40859-8	2404-P13 (0-6)	Solid	10/03/13 10:15	10/12/13 09:45
580-40859-9	2404-P13 (12-18)	Solid	10/03/13 10:25	10/12/13 09:45
580-40859-10	2404-P13 (24-30)	Solid	10/03/13 10:40	10/12/13 09:45
580-40859-11	2404-P12 (0-6)	Solid	10/03/13 09:05	10/12/13 09:45
580-40859-12	2404-P12 (12-18)	Solid	10/03/13 09:40	10/12/13 09:45
580-40859-13	2404-P12 (24-30)	Solid	10/03/13 09:55	10/12/13 09:45

Laboratory: Test America Seattle, 5755 8th Street East, Tacmoa, WA 98424. 253.922.2310 (p) 253.922.5047 (f)

CHAIN OF CUSTODY REPORT

40859

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	M Schott		

TURNAROUND REQUEST in Business Days *
Organic and Inorganic Analyses
☐ 7 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1
Petroleum Hydrocarbon Analyses
☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ <1

OTHER Specify:
** Turnaround Requests less than standard may incur Rush Charges.*

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	PRESERVATIVE / REQUESTED ANALYSES: MS for 6010 (Lead only)	6010 (Lead only)	MEP for 6010 (lead only)	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
1	Bldg 578		10/8/2013	1615	X			S	1		
2	Dup 1		10/8/2013		X			S	1		
3	Dup 2		10/8/2013		X			S	1		
4	Bldg 579		10/5/2013	800	X			S	1		
5	Dup 3		10/5/2013		X			S	1		
6	Dup 4		10/5/2013		X			S	1		
7	MEP 2013		10/8/2013	1700			X	S	1		
8	2404-P13 (0-6)	0-6"	10/3/2013	1015		X		S	1		
9	2404-P13 (12-18)	12-18"	10/3/2013	1025		X		S	1		
10	2404-P13 (24-30)	24-30"	10/3/2013	1040		X		S	1		
11	2404-P12 (0-6)	0-6"	10/3/2013	905		X		S	1		
12	2404-P12 (12-18)	12-18"	10/3/2013	940		X		S	1		
13	2404-P12 (24-30)	24-30"	10/3/2013	955		X		S	1		
14											
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Cooler/TB Dig/IR cor 2.7 unc 2.2
Cooler Dsc Dig Duplicate @ Lab
~~Wet Packs~~ Packing Other
noice WCS. Federal.

580-40859 Chain of Custody

RELINQUISHED BY: PRINT NAME:	[signature]	FIRM: Geosyntec	DATE: 10-11-13 TIME: 1030	RECEIVED BY: PRINT NAME:	[signature] FIRM: TA Mon Bath DATE: 10/11/13 TIME: 1030
RELINQUISHED BY: PRINT NAME:	Nina Kim	FIRM: TA HON	DATE: 10/11/13 TIME: 1204	RECEIVED BY: PRINT NAME: Rachael Bailes	FIRM: TASea DATE: 10/12/13 TIME: 0945

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)
If not "all", specify:

TEMP: 3.2 None

COC Rev 1, 5/04

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11/14/2013

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Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-40859-1

Login Number: 40859

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

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.	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.	False	Thermal preservation not required.
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: 580-40859-1

Login Number: 40859
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 10/23/13 02:47 PM

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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Portland
9405 SW Nimbus Ave.
Beaverton, OR 97008
Tel: (503)906-9200

TestAmerica Job ID: 250-14025-2
TestAmerica Sample Delivery Group: PNG0572
Client Project/Site: Midway Soil Sampling 2013
Revision: 1

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Authorized for release by:
11/8/2013 2:06:50 PM
Erica Fot, Project Mgmt. Assistant
erica.fot@testamericainc.com

Designee for

Vanessa Berry, Project Manager I
(503)906-9233
vanessa.frahs@testamericainc.com

Table of Contents

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14025-49	R2 TEST BURN	Solid	09/05/13 08:05	09/07/13 09:30

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Job ID: 250-14025-2

Laboratory: TestAmerica Portland

Narrative

Job Narrative
250-14025-2

Comments
No additional comments.

Receipt
The samples were received on 9/7/2013 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 23.9º C.

Except:

578-P19 (0-6) (250-14025-41), 578-P19 (12-18) (250-14025-42), 578-P19 (24-30) (250-14025-43), 578-P20 (0-6) (250-14025-44), 578-P20 (12-18) (250-14025-45), 578-P20 (24-30) (250-14025-46) Samples are labeled 9/2/13, but COC indicates 8/31/13. Logged in per COC.

An HCL TRIP BLANK (250-14025-48) was submitted. Trip blanks are not run with metals. Sample was not run.

Metals
Method(s) 1311: Insufficient sample was provided to perform the leaching procedure with the required 100g for the following sample(s): R2 TEST BURN (250-14025-49). The volume of leaching fluid was adjusted proportionally to maintain a 20:1 ratio of leaching fluid to weight of sample. Reporting limits (RLs) are not affected.

Method(s) 3050B: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: R2 TEST BURN (250-14025-49). The reporting limits (RLs) have been adjusted proportionately.

No other 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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Method: 6020 - Metals (ICP/MS)

Client Sample ID: R2 TEST BURN
Date Collected: 09/05/13 08:05
Date Received: 09/07/13 09:30

Lab Sample ID: 250-14025-49
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3200		19	3.4	mg/Kg		09/10/13 09:22	09/10/13 17:09	50

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Method: 6020 - Metals (ICP/MS) - TCLP

Client Sample ID: R2 TEST BURN
Date Collected: 09/05/13 08:05
Date Received: 09/07/13 09:30

Lab Sample ID: 250-14025-49
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.27		0.010	0.0011	mg/L		09/11/13 08:54	09/12/13 14:30	10

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 250-19938/1-A
Matrix: Solid
Analysis Batch: 19985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 19938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.49	0.085	mg/Kg		09/10/13 09:22	09/10/13 14:02	10

Lab Sample ID: LCS 250-19938/2-A
Matrix: Solid
Analysis Batch: 19985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 19938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.9	52.9		mg/Kg		106	80 - 120

Lab Sample ID: MB 250-20004/1-A
Matrix: Solid
Analysis Batch: 20074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0011	mg/L		09/11/13 08:54	09/12/13 14:21	10

Lab Sample ID: LCS 250-20004/2-A
Matrix: Solid
Analysis Batch: 20074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20004

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: 250-14025-49 MS
Matrix: Solid
Analysis Batch: 20074

Client Sample ID: R2 TEST BURN
Prep Type: TCLP
Prep Batch: 20004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.27		1.00	1.28		mg/L		101	75 - 125

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Laboratory: TestAmerica Portland

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-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2013

TestAmerica Job ID: 250-14025-2
SDG: PNG0572

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PRT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

Laboratory: Test America Seattle, 5755 8th Street East, Tacmoa, WA 98424. 253.922.2310 (p) 253.922.5047 (f

250-14025 Chain of Custody

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	Swakefield		

TURNAROUND REQUEST in Business Days *

Organic and Inorganic Analyses: ☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1

Petroleum Hydrocarbon Analyses: ☐5 ☐4 ☐3 ☐2 ☐1 ☐<1

OTHER Specify:

** Turnaround Requests less than standard may incur Rush Charges.*

PRESERVATIVE

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	Total Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
1	578-P6 (0-6)	(0-6)	8-24-13	15:31	x	Soil	1		
2	578-P6 (12-18)	(12-18)	↓	15:47	x	Soil	1		
3	578-P6(24-30)	(24-30)	↓	16:05	x	Soil	1		
4	578-P7 (0-6)	(0-6)	8-26-13	08:15	x	Soil	1		
5	578-P7 (12-18)	(12-18)	↓	08:26	x	Soil	1		
6	578-P7 (24-30)	(24-30)	↓	08:29	x	Soil	1		
7	NO P8				x	Soil	1		
8	578-P9 (0-6)	(0-6)	8-26-13	11:15	x	Soil	1		
9	578-P9 (12-18)	(12-18)	↓	11:19	x	Soil	1		
10	578-P9 (24-30)	(24-30)	↓	11:22	x	Soil	1		
11	578-P10 (0-6)	(0-6)	8-26-13	12:20	x	Soil	1		
12	578-P10 (12-18)	(12-18)	↓	12:26	x	Soil	1		
13	578-P10 (24-30)	(24-30)	↓	12:30	x	Soil	1		
14	578-P11 (0-6)	(0-6)	8-26-13	13:07	x	Soil	1		
15	578-P11 (12-18)	(12-18)	↓	13:15	x	Soil	1		
16	578-P11 (24-30)	(24-30)	↓	13:19	x	Soil	1		
17	578-P12 (0-6)	(0-6)	8-26-13	14:15	x	Soil	1		
18	578-P12 (12-18)	(12-18)	↓	14:24	x	Soil	1		
19	578-P12 (24-30)	(24-30)	↓	14:28	x	Soil	1		
20	578-P12 (0-6) Dup	(0-6)	8-26-13	14:15	x	Soil	1		
21	578-P12 (12-18) Dup	(12-18)	↓	14:24	x	Soil	1		
22	578-P12 (24-30) Dup	(24-30)	↓	14:28	x	Soil	1		
23	578-P10 (30-36)	(30-36)	8-26-13	12:40	x	Soil	1		
24					x	Soil	1		
25					x	Soil	1		
26					x	Soil	1		
27					x	Soil	1		
28					x	Soil	1		
29					x	Soil	1		
30					x	Soil	1		

RELINQUISHED BY:	SCOTT WAKEFIELD		DATE: 09-05-13	RECEIVED BY:	DATE: 9/6/13
PRINT NAME:	SCOTT WAKEFIELD	FIRM: GEOSYNTEC	TIME:	PRINT NAME: Kristie Reilly	FIRM: TA	TIME: 10:45
RELINQUISHED BY:			DATE:	RECEIVED BY:	DATE: 9/7/13
PRINT NAME: Kristie Reilly		FIRM: TA	TIME: 9/6/13 11:15	PRINT NAME: Paul Sichler	FIRM: TA	TIME: 0930

24.6°C No Ice

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)

If not "all", specify:

TEMP: 23.9

BLDG 578

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COC Rev 1, 5/04

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11/8/2013

Laboratory: Test America Seattle, 5755 8th Street East, Tacmca, WA 98424. 253.922.2310 (p) 253.922.5047 (f)

CHAIN OF CUSTODY REPORT

CLIENT:	Geosyntec	INVOICE TO:	Geosyntec
REPORT TO:	Joey Hickey	Attention	Joey Hickey
ADDRESS:	621 SW Morrison Street, Suite 600 Portland, Oregon 97205		621 SW Morrison Street, Suite 600 Portland, OR 97205
PHONE:	971-271-5897 FAX: 971-271-5884	P.O. NUMBER:	
PROJECT NAME:	Midway Soil Sampling 2013		
PROJECT NUMBER:	PNG0572		
SAMPLED BY:	Swakefield, J. Stone		

TURNAROUND REQUEST in Business Days:*
Organic and Inorganic Analyses: ☐7 ☒5 ☐4 ☐3 ☐2 ☐1 ☐<1
Petroleum Hydrocarbon Analyses: ☐5 ☐4 ☐3 ☐2 ☐1 ☐<1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	SAMPLE COLLECTION DATE	TIME	PRESERVATIVE / REQUESTED ANALYSES: Total Lead	TCLP Lead	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID
31	578-P13 (0-6)	(0-6)	9-2-13	08:25	x		Soil	1		
32	578-P13 (12-18)	(12-18)		08:31	x		Soil	1		
33	578-P13 (24-30)	(24-30)		08:36	x		Soil	1		
34	578-P14 (0-6)	(0-6)	9-2-13	07:51	x		Soil	1		
35	578-P14 (12-18)	(12-18)		08:10	x		Soil	1		
36	578-P14 (24-30)	(24-30)		08:16	x		Soil	1		
37	578-P15 (0-6)	(0-6)	9-2-13	08:52	x		Soil	1		
38	578-P15 (12-18)	(12-18)		09:01	x		Soil	1		
39	578-P15 (24-30)	(24-30)		09:07	x		Soil	1		
40	578-P16 (0-6)	(0-6)	9-2-13	09:18	x		Soil	1		
41	578-P16 (12-18)	(12-18)		09:28	x		Soil	1		
42	578-P16 (24-30)	(24-30)		09:35	x		Soil	1		
43	578-P17 (0-6)	(0-6)	9-2-13	09:47	x		Soil	1		
44	578-P17 (12-18)	(12-18)		09:52	x		Soil	1		
45	578-P17 (24-30)	(24-30)		09:58	x		Soil	1		
46	578-P18 (0-6)	(0-6)	9-2-13	10:30	x		Soil	1		
47	578-P18 (12-18)	(12-18)		10:41	x		Soil	1		
48	578-P18 (24-30)	(24-30)		10:48	x		Soil	1		
49	578-P19 (0-6)	(0-6)	8-31-13	14:34	x		Soil	1		
50	578-P19 (12-18)	(12-18)		14:49	x		Soil	1		
51	578-P19 (24-30)	(24-30)		14:55	x		Soil	1		
52	578-P20 (0-6)	(0-6)	8-31-13	13:32	x		Soil	1		
53	578-P20 (12-18)	(12-18)		13:40	x		Soil	1		
54	578-P20 (24-30)	(24-30)		13:44	x		Soil	1		
55	EQUIPMENT BLANK		9-2-13	17:45	x		Wet	1	500 ML D.I. WATER	
56	TRIP BLANK		9-2-13	17:50	x		Wet	1	VOA, PRESERVED	
57	R2 TEST BURN		9-5-13	08:05	(x x) Rush for both		Soil	1	BURN PILE ASH	
58					x		Soil	1		
59					x		Soil	1		
60					x		Soil	1		

RELINQUISHED BY:	Scott Wakefield	DATE:	9-6-13	RECEIVED BY:	DATE: 9/6/13
PRINT NAME:	SCOTT WAKEFIELD	TIME:		PRINT NAME: Krista Reilly	TIME: 10:45
FIRM:	GEOSYNTEC			FIRM: TA	
RELINQUISHED BY:	Krista Reilly	DATE:	9/6/13	RECEIVED BY:	DATE:
PRINT NAME:		TIME:	11:15	PRINT NAME:	TIME:
FIRM:	TA			FIRM:	

ADDITIONAL REMARKS: Soils to be analyzed on wet weight.

Metals samples field filtered? No (all)
If not "all", specify:

TEMP: BLDG 578

COC Rev 1: 5/04

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11/8/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 250-14025-2
SDG Number: PNG0572

Login Number: 14025
List Number: 1
Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
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.	False	Several sample label dates do not match COC.
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").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14024-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			
Date and time of sampling specified for each sample?	x			
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?			x	No preservation was required.
Analyses required specified? (including site specific instructions)		x		The QAP listed method was not specified.
Method of shipment specified?		x		
Signature(s), name(s) and affiliation(s) of field staff provided?	x			It was noted that the relinquished time was missing. There was no impact on the data, so no qualifications were applied to the data.
Signature(s) and name(s) of recipient for lab provided?	x			
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected on August 27-28 and were received by the laboratory on September 7, 2013.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets were not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?			x	
Samples arrived intact and without air bubbles for VOC samples?			x	No VOCs anaysis was requested.
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			
Analytical methods and analytes match those listed in QAP:		x		The work plan specifies 6010, however the samples were reported as 6020.
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 6020 (Total Lead)				
Sample Results				
Results provided for all samples and analyses on CoC?	x			
Date and time of analysis is reported for all samples and QA/QC samples?		x		The date and time of batch preparation was listed for the MB. The dates and times were not provided for the LCS,LCSD, MS, or MSD. There was no impact on the data, so no qualifications were applied to data.
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?	x			
Are RLs less than or equal to QAP specified RLs except for diluted samples?	x			A 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS. The RL for a 10x dilution met the QAP specified RL of 5 mg/kg.
Detected concentrations less than RL are reported as estimated concentrations?	x			
QA/QC Results				
Analytes not detected in method blanks?	x			It was noted that the method blanks were reported at a 10x dilution and all the samples were diluted at 10x or greater. The 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS.
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14024-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?	x			Two project specific MS/MSD pairs were reported using samples 2404-P1 (0-6) and 2404-P7 (24-30).
MS/MSD pre-spike concentration, amount added, %R and RPD reported?	x			
MS/MSD meet QC acceptance criteria in QAP?	x			
LCS/LCSD meet lab QC acceptance criteria?	x			
Laboratory duplicates meet frequency criteria in QAP (1 in 20)?			x	MSDs were reported in place of laboratory duplicates.
Laboratory duplicates meet lab QC acceptance criteria?			x	
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			Three field duplicates were reported in report 250-14024-1. Fourteen duplicate/triplicates were reported for the sampling project of 170 soil samples. Therefore, the field duplicate frequency was 8%, meeting the QAP requirement of 5%.
Field duplicates meet QC acceptance criteria in QAP?	x			
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAP?			x	
Analytes not detected in equipment rinse blanks?			x	
Case Narrative				
Completely addresses any lab QC results outside QC limits?	x			
Completeness for laboratory measurements is $\geq$ 90%?	x			
Overall completeness is $\geq$ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			Kristine Allen, Project Manager I
Data qualifiers used in lab report are explained in lab report?	x			
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	9/12/2013
Revisions - Date and nature of revisions requested:	N/A
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14022-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			
Date and time of sampling specified for each sample?	x			
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?			x	No preservation was required.
Analyses required specified? (including site specific instructions)		x		The QAP listed method was not specified.
Method of shipment specified?		x		
Signature(s), name(s) and affiliation(s) of field staff provided?	x			Sampler's name was listed, however signature and affiliation was missing. It was noted that the relinquished by information was missing (name, signature, firm, and date/time). There was no impact on the data, so no qualifications were applied to the data.
Signature(s) and name(s) of recipient for lab provided?	x			
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected on August 28-31, 2013 and were received by the laboratory on September 7, 2013.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets were not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?			x	Temperature preservation is not required for metals in solid samples.
Samples arrived intact and without air bubbles for VOC samples?			x	No VOCs analysis was requested.
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			
Analytical methods and analytes match those listed in QAP:		x		The work plan specifies 6010, however the samples were reported as 6020.
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 6020 (Total Lead)				
Sample Results				
Results provided for all samples and analyses on CoC?	x			
Date and time of analysis is reported for all samples and QA/QC samples?		x		The dates and times were not provided for the LCS,LCSD, MS, or MSD. There was no impact on the data so no qualifications were applied to data.
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?	x			
Are RLs less than or equal to QAP specified RLs except for diluted samples?	x			A 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS. The RL for a 10x dilution met the QAP specified RL of 5 mg/kg.
Detected concentrations less than RL are reported as estimated concentrations?	x			
QA/QC Results				
Analytes not detected in method blanks?	x			It was noted that the method blanks were reported at a 10x dilution and all the samples were diluted at 10x or greater. The 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS.
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?	x			Four project specific MS/MSD pairs were reported with the data set using samples 579-P13 (0-6), 579-P19 (24-30), 579-P2 (12-18), and 579-P22 (24-30) DUP .
MS/MSD pre-spike concentration, amount added, %R and RPD reported?	x			

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14022-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
MS/MSD meet QC acceptance criteria in QAP?		x		The recovery of lead was high and outside the laboratory specified acceptance criteria in the MSD (137%) using sample 579-P13 (0-6). Therefore, the detected concentration of lead was J+ qualified as estimated bias high in sample 579-P13 (0-6).
LCS/LCSD meet lab QC acceptance criteria?	x			
Laboratory duplicates meet frequency criteria in QAP (1 in 20)?			x	MSDs were reported in place of laboratory duplicates.
Laboratory duplicates meet lab QC acceptance criteria?			x	
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			Six field duplicates were reported in report 250-14022-1. Fourteen duplicate/triplicates were reported for the sampling project of 170 soil samples. Therefore, the field duplicate frequency was 8%, meeting the QAP requirement of 5%.
Field duplicates meet QC acceptance criteria in QAP?		x		Lead was detected at an estimated concentration in the parent sample and detected above the reporting limit (RL) in the field duplicate sample in duplicate pair 579-P22 (24-30)/579 P22 (24-30) DUP, resulting in a noncalculabe RPD between the results. Therefore, based on professional judgment, the concentrations of lead were J qualified as estimated in the field duplicate pair. The field duplicates 579-P22 (0-6) DUP and 579-P7 (12-18) DUP had RPDs >30%; the original samples were 579-P22 (0-6) and 579-P7 (12-18), respectively. Therefore the concentrations of lead were J qualified as estimated in these two field duplicate pairs.
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAP?			x	
Analytes not detected in equipment rinse blanks?			x	
Case Narrative				
Completely addresses any lab QC results outside QC limits?	x			
Completeness for laboratory measurements is $\geq$ 90%?	x			
Overall completeness is $\geq$ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			Kristine Allen - Project Manager I
Data qualifiers used in lab report are explained in lab report?	x			
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	9/13/2013
Revisions - Date and nature of revisions requested:	N/A
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 580-40859-1 Revision 1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			
Date and time of sampling specified for each sample?		x		The sample times for duplicate samples were not specified on CoC. There was no impact on the data, so no qualifications were applied to the data.
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?			x	No preservation was required.
Analyses required specified? (including site specific instructions)	x			
Method of shipment specified?	x			
Signature(s), name(s) and affiliation(s) of field staff provided?	x			
Signature(s) and name(s) of recipient for lab provided?	x			
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected on October 3-8, 2013 and received by the laboratory on October 12, 2013.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets was not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?			x	
Samples arrived intact and without air bubbles for VOC samples?			x	
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?		x		Dup 1 and 2 were logged in as Bldg 578 Dup 1 and 2 and Dup 3 and 4 were logged in as Bldg 579 Dup 1 and 2. There was no impact on the data, so no qualification were applied to the data.
Analytical methods and analytes match those listed in QAP:	x			
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 Incremental sampling/3050B/6010B (Total Lead), EPA SW-846 1320/6010C , 3050B/6010B				

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 580-40859-1 Revision 1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Sample Results				
Results provided for all samples and analyses on CoC?	x			
Date and time of analysis is reported for all samples and QA/QC samples?		x		The date and time was provided for the MB and prep batch. The dates and times were not provided for the LCS or the MS. There was no impact on the data, so no qualifications were applied to data.
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?	x			
Are RLs less than or equal to QAP specified RLs except for diluted samples?	x			
Detected concentrations less than RL are reported as estimated concentrations?			x	Samples results were not reported to the MDL.
QA/QC Results				
Analytes not detected in method blanks?	x			
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?	x			One project specific MS/MSD pair was reported using sample Bldg 578.
MS/MSD pre-spike concentration, amount added, %R and RPD reported?	x			
MS/MSD meet QC acceptance criteria in QAP?	x			
LCS/LCSD meet lab QC acceptance criteria?	x			
Laboratory duplicates meet frequency criteria in QAP (1 in 20)?	x			Sample Bldg 578 was used as a laboratory duplicate.
Laboratory duplicates meet lab QC acceptance criteria?	x			
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			Two samples were reported in triplicate for report 580-40859-1. Fourteen duplicate/triplicates were reported for the sampling project of 170 soil samples. Therefore, the field duplicate frequency was 8%, meeting the QAP requirement of 5%.
Field duplicates meet QC acceptance criteria in QAP?			x	Samples Bldg 578 and Bldg 579 were collected in triplicate for incremental sampling. The RSD did not meet the project requirement of 30%. Therefore the concentrations were J qualified as estimated, in samples Bldg 578, Bldg 579, Dup 1, 2,3 and 4.
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAP?			x	
Analytes not detected in equipment rinse blanks?			x	

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 580-40859-1 Revision 1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Case Narrative				
Completely addresses any lab QC results outside QC limits?	x			
Completeness for laboratory measurements is ≥ 90%?	x			
Overall completeness is ≥ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in QAP?			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			Kristine Allen - Manager of Project Management
Data qualifiers used in lab report are explained in lab report?			x	
Electronic data match the lab report?		x		The samples were reported to the RLs in the hardcopy but the MDLs were also listed in the EDD. There was no impact on the data, so no qualifications were added to the data set.

Chronology of Lab Report Revisions	
Date of first lab report:	11/13/2013
Revisions - Date and nature of revisions requested:	11/14/2013
The report was revised to correct sample receipt date for sample 1 and 2	
Revisions Received:	11/14/2013
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14025-2 Revision 1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			
Date and time of sampling specified for each sample?	x			The narrative indicated that the sample date on the sample label did not match CoC, stating date was 8/31/13 on CoC (9/5/13 was actual date on CoC) and 9/2/13 on the label. The narrative states that the sample was logged in per CoC. The report was revised and logged in as 9/5/13.
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?			x	No preservation was required.
Analyses required specified? (including site specific instructions)		x		The QAP listed method was not specified.
Method of shipment specified?		x		
Signature(s), name(s) and affiliation(s) of field staff provided?	x			It was noted that the relinquished time was missing. There was no impact on the data, so no qualifications were added to the data
Signature(s) and name(s) of recipient for lab provided?	x			It was noted for the second sample transfer that the received by information was missing from page two of the CoC (name, signature, firm, and date/time). There was no impact on the data, so qualifications were added to the data.
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The sample was collected at 0805 on 9/5/13 and received at the laboratory at 0930 on 9/7/13.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets was not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?			x	
Samples arrived intact and without air bubbles for VOC samples?			x	
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			
Analytical methods and analytes match those listed in QAP:		x		The work plan specified 6010, however the samples were reported as 6020.
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 6020 and 1311/6020 (Total and TCLP Lead)				
Sample Results				
Results provided for all samples and analyses on CoC?		x		Only R2 TEST BURN was reported in 250-14025-2, the remainder of the samples except TRIP BLANK were reported in laboratory report 250-14025-1. TRIP BLANK was collected as a Volatile Organic Analysis (VOA) sample and could not be analyzed for total lead by the laboratory (noted in narrative).
Date and time of analysis is reported for all samples and QA/QC samples?		x		The date and time was provided for the method blank prep batch. The dates and times were not provided for the LCS or the MS. There was no impact on the data, so no qualifications were applied to data.
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?	x			
Are RLs less than or equal to QAP specified RLs except for diluted samples?			x	A 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS. The RL for a 10x dilution met the QAP specified RL of 5 mg/kg.
Detected concentrations less than QL are reported as estimated concentrations?			x	
QA/QC Results				

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14025-2 Revision 1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Analytes not detected in method blanks?	x			It was noted that the method blanks were reported at a 10x dilution and all the samples were diluted at 10x or greater. The 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS.
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?	x			A MS was reported for the TCLP analysis.
MS/MSD pre-spike concentration, amount added, %R and RPD reported?	x			
MS/MSD meet QC acceptance criteria in QAP?	x			
LCS/LCSD meet lab QC acceptance criteria?	x			An LCS was reported for total lead and TCLP.
Laboratory duplicates meet frequency criteria in QAP (1 in 20)?			x	
Laboratory duplicates meet lab QC acceptance criteria?			x	
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			No field duplicates were reported in 250-14025-2. Fourteen duplicate/triplicates were reported for the sampling project of 170 soil samples. Therefore, the field duplicate frequency was 8%, meeting the QAP requirement of 5%.
Field duplicates meet QC acceptance criteria in QAP?			x	
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAP?			x	There is not criteria for equipment rinse blanks in the QAP.
Analytes not detected in equipment rinse blanks?			x	An equipment rinsate blank was reported in 240-14025-1
Case Narrative				
Completely addresses any lab QC results outside QC limits?	x			
Completeness for laboratory measurements is ≥ 90%?	x			
Overall completeness is ≥ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			Kristine Allen, Project Manager I
Data qualifiers used in lab report are explained in lab report?			x	
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	9/13/2013
Revisions - Date and nature of revisions requested:	11/8/2013
The report was revised to add total lead QC and correct collection time.	
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
QL - quantitation limit (or reporting limit)
RPD - relative percent difference
%R - percent recovery

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14025-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			
Date and time of sampling specified for each sample?	x			
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?			x	It was noted that the equipment blank was received without preservative, however the sample was preserved by the laboratory. Therefore, no qualifications were applied to the sample. No preservation was required of the other samples.
Analyses required specified? (including site specific instructions)		x		The QAP listed method was not specified.
Method of shipment specified?		x		
Signature(s), name(s) and affiliation(s) of field staff provided?	x			It was noted that the relinquished time was missing. There was no impact on the data, so no qualifications were added to the data.
Signature(s) and name(s) of recipient for lab provided?	x			It was noted for the second sample transfer that the received by information was missing from page two of the CoC (name, signature, firm, and date/time). There was no impact on the data, so no qualification were added to the data.
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected on August 24-September 2, 2013 and were received by the laboratory on September 7, 2013.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets was not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?			x	
Samples arrived intact and without air bubbles for VOC samples?			x	
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			It was noted that sample 41-46 were labeled 9/2/13 but CoC indicated 8/31/13. The samples were logged in per the CoC.
Analytical methods and analytes match those listed in QAP:		x		The work plan specifies 6010, however the samples were reported as 6020.
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 6020 (Total Lead)				
Sample Results				
Results provided for all samples and analyses on CoC?		x		R2 TEST BURN (Total and TCLP Lead) was reported in laboratory report 250-14025-2. A trip blank was collected as a Volatile Organic Analysis (VOA) sample and could not be analyzed for total lead by the laboratory (noted in narrative).
Date and time of analysis is reported for all samples and QA/QC samples?		x		The date and time was listed for the method blank prep batch. The dates and times were not provided for the LCS,LCSD, MS, or MSD. There was no impact on the data so no qualifications were applied to data.
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?	x			
Are RLs less than or equal to QAP specified RLs except for diluted samples?			x	Soil samples are diluted at 10x as a standard matrix modification by the laboratory when performing ICP-MS. The RL for a 10x dilution met the QAP specified RL of 5 mg/kg.
Detected concentrations less than RL are reported as estimated concentrations?	x			
QA/QC Results				
Analytes not detected in method blanks?	x			It was noted that the soil method blanks were reported at a 10x dilution and all the samples were diluted at 10x or greater. The 10x dilution is a standard matrix modification by the laboratory when performing ICP-MS.
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2013
Fall 2013

Completed by: Kristoffer Henderson
Validation Date 11/14/2013
Reviewed by: Julia Caprio
Review Date 11/18/2013
Lab Report No: 250-14025-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?	x			Two project specfic MS/MSD pairs were reported using samples 578-P20 (24-30) and 578-P12 (12-18).
MS/MSD pre-spike concentration, amount added, %R and RPD reported?	x			
MS/MSD meet QC acceptance criteria in QAP?		x		The recovery of lead was high and outside the laboratory specified critiria in the MS (145%) using sample 578-P12 (12-18). Therefore,the detected concentration of lead was J+ qualified as estimaed with a high bias in sample 578-P12 (12-18).
LCS/LCSD meet lab QC acceptance criteria?	x			
Laboratory duplicates meet frequency criteria in QAP (1 in 20)?	x			MSDs were reported for the soil samples. It was noted that the equipment blank was used for the laboratory duplicate. The equipment blank was the only water sample reported.
Laboratory duplicates meet lab QC acceptance criteria?	x			The RPD was 0%.
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			Three field duplicates were reported in report 250-14025-1. Fourteen duplicate/triplicates were reported for the sampling project of 170 soil samples. Therefore, the field duplicate frequency was 8%, meeting the QAP requirement of 5%.
Field duplicates meet QC acceptance criteria in QAP?		x		The field duplicates 578-P12 (0-6) DUP and 578-P12 (12-18) DUP had RPDs >30%; the original samples were 578-P12 (0-6) and 578-P12 (12-18), respectively. Therefore, the concentrations were J qualified as estimated in these two field duplicate pairs.
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAP?			x	An equipment blank was reported with the data set, however it is not a QAP requirement.
Analytes not detected in equipment rinse blanks?	x			
Case Narrative				
Completely addresses any lab QC results outside QC limits?	x			
Completeness for laboratory measurements is $\geq$ 90%?	x			
Overall completeness is $\geq$ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			Kristin Allen, Project Manager I
Data qualifiers used in lab report are explained in lab report?	x			
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	9/13/2013
Revisions - Date and nature of revisions requested:	N/A
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

APPENDIX E

INIKI MONITORING REPORTS

INIKI
ENTERPRISES, LIMITED
dba INIKI DEMOLITION & ABATEMENT SERVICE

November 6, 2013

Memorandum For Record

Lead Air Exposure Monitoring

Project: **Midway Atoll: Cable House**

Iniki Enterprises Ltd., performed lead-disturbing tasks in subject areas of the structure identified as the "Cable House" located at Midway Atoll, during September 6, 2013 through October 13, 2013. Lead air samples to determine workers' exposure to lead, were collected in accordance with OSHA's Lead in Construction. The samples were submitted to Galson Laboratories Pacific Rim for analysis. The results that exceeded the laboratory's analytical limit of detection, are presented in the table below.

Sample #	Date	Worker Name	Concentration µg Lead/m^3	TWA* Without Respect to Respirator	Exposure with Consideration of Respirator**
13	9/23/2013	Darrin Engoring	49	18	1.8
14	9/23/2013	Gary Lewis	79	30	3
15	9/24/2013	Darrin Engoring	53	53	5.3
16	9/24/2013	Kailii Ka'awa	49	37	3.7
17	9/25/2013	Darrin Engoring	6	6	0.6
18	9/25/2013	Kailii Ka'awa	6.4	6.4	0.64
19	9/28/2013	Darrin Engoring	9.2	10	1
20	9/30/2013	Darrin Engoring	8.5	9.6	0.96
21	10/1/2013	Darrin Engoring	45	51	5.1
22	10/2/2013	Darrin Engoring	240	150	15

***Time weighted Average, µg Lead/m^3, micrograms per cubic meter,**

****Half Face Respirator with Protection Factor of 10, µg Lead/m^3**

1040 SAND ISLAND PARKWAY, #100, HONOLULU, HI 96819 CONTRACTORS LICENSE # C-25503
Phone: 808-677-7800 Estimating Office Fax: 808-677-7882 Accounting/HR Office Fax: 808-676-9618

INIKI
ENTERPRISES, LIMITED
dba INIKI DEMOLITION & ABATEMENT SERVICE

For comparison's sake OSHA's Permissible Exposure Limit (PEL), and Action Level(AL) are 50 µg Lead/m^3 and 30 µg Lead/m^3 respectively. The selected respiratory protection, half-face air purifying respirators with P-100 filters (HEPA), was adequate to reduce the worker's exposure to less than the the Action Level. Workers were further protected with disposable coveralls and gloves, and required to decontaminate with HEPA-vacuums and wash hands and face upon leaving the work area each time.

As part of Iniki Enterprises ongoing medical surveillance program, Darrin Engoring was tested for blood lead levels post-work because his exposure (without consideration of respiratory protection) was found to exceed the PEL. The result of the blood lead test indicated concentrations of <5 µg per deciliter of blood. The "less than" indicates the concentrations of lead in Mr. Engoring's blood were lower than the laboratories level of detection (**essentially no lead was detected in his blood**), and correspondingly significantly lower than OSHA's threshold of concern.

Edwin Boyette
Lead Supervisor

LABORATORY REPORT

DIAGNOSTIC LABORATORY SERVICES,INC.

99-859 IWAIWA STREET
AIEA, HAWAII 96701 · TELEPHONE 486-5100

ORDERED	PATIENT
MED. CORNER-AIRPORT-OCC. MED. AIRPORT TRADE CENTER 550 PAIEA ST. HONOLULU, HI 96819	ENGORING,DARRIN J DR.: MILLONAS,SUSAN PAT.TEL#: 0

AGE DATE OF BIRTH	SEX
27,02/16/1986	M

PATIENT ID	DATE COLL.	REPORT DATE	ACCESSION
021686DE	10/24/2013 09:41	10/25/2013 05:51 PM	YB61358386 PAGE 1

Tests	Results		Reference Values
Lead, Blood *(cent)*	< 5	*ug/dL*	*<10*

For Industrial Exposure, OSHA Reference Range is < or = 40 ug/dL.

CHEM SPEC

ENGORING,DARRIN J

CHEM SPEC - FINAL REPORT
(PERMANENT CHART COPY)

(cent): DLS Central Lab,99-859 Iwaiwa St.Aiea,HI,96701

GALSON LABORATORIES

Galson Laboratories
Pacific Rim
ANALYTICAL REPORT

Tuesday, October 22, 2013

3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
VOICE: (888) 432-5227
www.galsonlabs.com/pacific-rim/

White Environmental Consultants
197 Sand Island Access Rd., Suite 203

Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20133944
Your Project: H13-655, Midway Atoll Lead Abatement

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20131016064	**1 Eric Alcosiba B259, 9/6/13**	UNK	< 6.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 6.7 ug/m3 TWA is < 4.2 ug/m3					
20131016065	**2 Darrin Engoring B259, 9/7/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016066	**3 Eric Alcosiba B2404, 9/9/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016067	**4 Darrin Engoring B2404, 9/10/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016068	**5 Dane Borero B259, 9/11/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016069	**6 Dane Borero B259, 9/12/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016070	**7 Darrin Engoring B259, 9/13/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					

White Environmental Consultants
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Email: honolulu_lab@wecenv.com

Galson Job No: 20133944
Your Project: H13-655, Midway Atoll Lead Abatement

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20131016071	**8 Dane Borero B2404, 9/14/13**	UNK	< 6.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 6.7 ug/m3 TWA is < 4.2 ug/m3					
20131016072	**9 Dane Borero B2403, 9/16/13**	UNK	< 3.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is < 4.2 ug/m3					
20131016073	**10 Dane Borero B2403/259, 9/17/13**	UNK	< 8.3	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 8.3 ug/m3 TWA is < 4.2 ug/m3					
20131016074	**11 Dane Borero B259, 9/18/13**	UNK	< 6.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 6.7 ug/m3 TWA is < 4.2 ug/m3					
20131016075	**12 Dane Borero B259, 9/19/13**	UNK	< 6.7	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 6.7 ug/m3 TWA is < 4.2 ug/m3					
20131016076	**13 Darrin Engoring Cable House, 9/23/13**	UNK	49	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 11 ug/m3 TWA is 18 ug/m3					
20131016077	**14 Gary Lewis Cable House, 9/23/13**	UNK	79	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 11 ug/m3 TWA is 30 ug/m3					
20131016078	**15 Darrin Engoring Cable House, 9/24/13**	UNK	53	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 4.2 ug/m3 TWA is 53 ug/m3					
20131016079	**16 Kaili Ka'awa Cable House, 9/24/13**	UNK	49	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 5.6 ug/m3 TWA is 37 ug/m3					

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Galson Job No: 20133944
Your Project: H13-655, Midway Atoll Lead Abatement

Lead, total (air filters)

NIOSH **Method:** 7082 LEAD by FAAS

Sample No.	Your Sample Description	Sample Type	Results	Units	Date Submitted	Date Analyzed
20131016080	**17 Darrin Engoring Cable House, 9/25/13**	UNK	6	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 4.2 ug/m3 TWA is 6.0 ug/m3					
20131016081	**18 Kaili Ka'awa Engoring Cable House, 9/25/13**	UNK	6.4	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 4.2 ug/m3 TWA is 6.4 ug/m3					
20131016082	**19 Darrin Engoring Cable House, 9/28/13**	UNK	9.2	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is 10 ug/m3					
20131016083	**20 Darrin Engoring Cable House, 9/30/13**	UNK	8.5	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is 9.6 ug/m3					
20131016084	**21 Darrin Engoring Cable House, 10/1/13**	UNK	45	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is 51 ug/m3					
20131016085	**22 Darrin Engoring Cable House, 10/2/13**	UNK	240	ug/m3	10/16/2013	10/18/2013
Comments	MRL = 3.7 ug/m3 TWA is 150 ug/m3					

All Quality Control data are acceptable unless otherwise noted.

White Environmental Consultants
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Honolulu HI 96819

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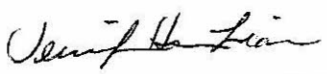
Galson Job No: 20133944
Your Project: H13-655, Midway Atoll Lead Abatement

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 Galson. 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. Concentration and TWA values have been calculated based on information supplied by the client that the laboratory cannot verify. 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.
> 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.



Ms. Jennifer Hsu Liao
Laboratory Manager

LEAD AIR SAMPLING FIELD REPORT

Iniki Enterprises, Limited.
1040 Sand Island Parkway, #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name: Midway Atoll Lead Abatement
Site: Midway Atoll
Client Name: North west Demo / USFWS
Project #:

Samples Submitted By:
Print Name:
Date: 10/16/2013

ID #	DATE	PUMP #	NAME & SS#, OR LOCATION	CTGY	TIME ON	TIME OFF	TOTAL MINS.	PRE LPM	POST LPM	FINAL LPM	AIR VLME	Sample Result	Detection Limit
1	9/6/13	1	Eric Alcosiba B 259		12:30	5:30	240	2.5	2.5	2.5	600		
2	9/7/13	1	Darrin Engering B259		8:00	5:00	540	2.5	2.5	2.5	1350		
3	9/8/13	1	Eric Alcosiba B2404		8:00	5:00	540	2.5	2.5	2.5	1350		
4	9/10/13	1	Darrin Engering B2404		8:00	5:00	540	2.5	2.5	2.5	1350		
5	9/11/13	1	Dane Borero B259		8:00	5:00	540	2.5	2.5	2.5	1350		
6	9/12/13	1	Dane Borero B259		8:00	5:00	540	2.5	2.5	2.5	1350		
7	9/13/13	1	Darrin Engering B259		8:00	5:00	540	2.5	2.5	2.5	1350		
8	9/14/13	1	Dane Borero B2403		12:00	5:00	300	2.5	2.5	2.5	750		

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
LB	LOT BLANK
IA	INSIDE AREA

OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:
DATE:

REVIEWED BY:
DATE:

LEAD AIR SAMPLING FIELD REPORT

Iniki Enterprises, Limited.
1040 Sand Island Parkway, #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name:	Midway Atoll Lead Abatement
Site:	Midway Atoll
Client Name:	North West / US FWS
Project #:	

Samples Submitted By:

Print Name:	
Date:	10/16/17

ID #	DATE	PUMP #	NAME & SS#, OR LOCATION	CTGY	TIME ON	TIME OFF	TOTAL MINS.	PRE LPM	POST LPM	FINAL LPM	AIR VLME	Sample Result	Detection Limit
9	9/16/13	1	Dane Bevero B 2403		8:40	5:00	540	2.5	2.5	2.5	1350		
10	9/17/13	1	Dane Bevero B2403/259		1:40	5:40	240	2.5	2.5	2.5	600		
11	9/18/13	1	Dane Bevero B259		7:40	12:40	300	2.5	2.5	2.5	750		
12	9/19/13	1	Dane Bevero B259		12:30	5:30	300	2.5	2.5	2.5	750		
13	9/23/13	1	Darrin Engoring Cable House		1:30	4:30	180	2.5	2.5	2.5	450		
14	9/23/13	2	Gary Lewis Cable House		1:30	4:30	180	2.5	2.5	2.5	450		
15	9/24/13	1	Darrin Engoring Cable House		8:40	4:40	480	2.5	2.5	2.5	1200		
16	9/24/13	2	Kaili Kinawa Cable House		10:40	4:00	360	2.5	2.5	2.5	900		

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
LB	LOT BLANK
IA	INSIDE AREA

OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:	
DATE:	

REVIEWED BY:	
DATE:	

LEAD AIR SAMPLING FIELD REPORT

Iniki Enterprises, Limited.
1040 Sand Island Parkway, #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name: Midway Atoll Lead Abatement
Site: Midway Atoll
Client Name: Northwest / US FWS
Project #:

Samples Submitted By:
Print Name:
Date: 10/12/13

ID #	DATE	PUMP #	NAME & SS#, OR LOCATION	CTGY	TIME ON	TIME OFF	TOTAL MINS.	PRE LPM	POST LPM	FINAL LPM	AIR VLME	Sample Result	Detection Limit
17	9/25/13	1	Darwin Engraving Cable House		8:00	4:00	480	2.5	2.5	2.5	1200		
18	9/25/13	2	Kaili Ka'awa Cable House		8:00	4:00	480	2.5	2.5	2.5	1200		
19	9/28/13	1	Darwin Engraving Cable House		7:30	4:30	540	2.5	2.5	2.5	1350		
20	9/30/13	1	Darwin Engraving Cable House		7:30	4:30	540	2.5	2.5	2.5	1350		
21	10/1/13	1	Darwin Engraving Cable House		7:30	4:30	540	2.5	2.5	2.5	1350		
22	10/2/13	1	Darwin Engraving Cable House		7:00	12:00	300	2.5	2.5	2.5	750		

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
LB	LOT BLANK
IA	INSIDE AREA

OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:
DATE:

REVIEWED BY:
DATE:

WHITE ENVIRONMENTAL CONSULTANTS INC.

197 Sand Island Access Rd. Unit 203 Honolulu, HI 96819 Phone: 808-843-0655 Fax: 808-843-0657

WEC Project Number: 653

Client Name / Billing Information: Erika' Enterprises	*Client Project Name / Location:* Midway Atoll Lead Abatement
ph:	
fax: *email:*	*Client Project Number:*
Relinquished by: Gary Lewis	*Received by:*
Date Relinquished:	*Received Date:* 10-16-13 *Time:* 0830

Please write a sample description in space provided.
(i.e. paint chips, concrete, etc.)

[ ] Please provide verbal results to: _____ Phone #: _____

Circle requested TAT: RUSH 24hr 48hr 72hr 5day

Place an 'X' under the requested analysis per sample received.

***For mold only**, Circle Requested TAT:* RUSH *Standard* (48-72 hrs)

	Client Sample Number	Collection Date	Sample Description	PCM NIOSH 7400A	PLM EPA 600/R93/116	TEM	Pb Air NIOSH 7082	* Pb Wipe HUD 14.2	Pb Paint SW 846-7420	Pb Soil SW 846-3050B	TCLP SW 846-1311	Non-Viable Mold	Viable Mold	8 RCRA Metal TCLP	PCB	Arsenic Air, Bulk, TCLP	Other	Acceptable/ Not Acceptable (A/NA)
1	1						X											A
2	2						↓											↓
3	3																	
4	4																	
5	5																	
6	6																	
7	7																	
8	8																	
9	9																	
10	10																	
11	11																	
12	12																	
13	13						↓											↓

* All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel; shall be free of exterior dust or contamination; and shall pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Wipe samples must meet ASTM requirements before analysis is run. WEC cannot determine whether wipe samples meet ASTM requirements.

* All samples are received in good condition unless otherwise stated.

* *Document any correspondence with client regarding sample acceptance criteria or other aspects of analytical request on an attached sheet.*

WHITE ENVIRONMENTAL CONSULTANTS INC.

197 Sand Island Access Rd. Unit 203 Honolulu, HI 96819 Phone: 808-843-0655 Fax: 808-843-0657

WEC Project Number: 653

Client Name / Billing Information: Shiki Enterprises	*Client Project Name / Location:* Midway Atoll Lead Abatement
ph:	
fax: *email:*	*Client Project Number:*
Relinquished by: Gary Lewis	*Received by:*
Date Relinquished:	*Received Date:* 11-16-13 *Time:* 0830

Please write a sample description in space provided.
(i.e. paint chips, concrete, etc.)

[ ] Please provide verbal results to: _____ Phone #: _____

Circle requested TAT: RUSH 24hr 48hr 72hr (5day)

Place an 'X' under the requested analysis per sample received.

***For mold only**, Circle Requested TAT:* RUSH *Standard (48-72 hrs)*

	Client Sample Number	Collection Date	Sample Description	PCM NIOSH 7400A	PLM EPA 600/R93/116	TEM	Pb Air NIOSH 7082	* Pb Wipe HUD 14.2	Pb Paint SW 846-7420	Pb Soil SW 846-3050B	TCLP SW 846-1311	Non-Viable Mold	Viable Mold	8 RCRA Metal TCLP	PCB	Arsenic Air, Bulk, TCLP	Other	Acceptable/ Not Acceptable (A/NA)
1	14						X											A
2	15						↓											↓
3	16																	
4	17																	
5	18																	
6	19																	
7	20																	
8	21																	
9	22						↓											↓
10																		
11																		
12																		
13																		

* All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel; shall be free of exterior dust or contamination; and shall pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Wipe samples must meet ASTM requirements before analysis is run. WEC cannot determine whether wipe samples meet ASTM requirements.

* All samples are received in good condition unless otherwise stated.

* *Document any correspondence with client regarding sample acceptance criteria or other aspects of analytical request on an attached sheet.*

GALSON LABORATORIES

Galson Laboratories Pacific Rim
ANALYTICAL REPORT

Monday, November 04, 2013

3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
VOICE: (888) 432-5227
www.galsonlabs.com/pacific-rim/

White Environmental Consultants
197 Sand Island Access Rd., Suite 203

Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20134160
Your Project: Midway Atoll B-578 & B-579, H13-655

Fiber Count Determination

Method NIOSH 7400

Sample No.	Your Sample description	Total Fibers	Total Fields	Reported Air Vol (L)	Results	Units	Date Submitted	Date Analyzed
20131028084	**0907, Dane Borero B579, 8/23/13**	0.5	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.6 f/mm2. TWA is < 0.0022 f/cc.							
20131028085	**0910, Dane Borero B579, 8/24/13**	4	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 5.1 f/mm2. TWA is < 0.0022 f/cc.							
20131028086	**0917, Lauren Lewis B579, 8/26/13**	0.5	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.6 f/mm2. TWA is < 0.0022 f/cc.							
20131028087	**0920, Lauren Lewis B579, 8/27/13**	0.5	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.6 f/mm2. TWA is < 0.0022 f/cc.							

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Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20134160
Your Project: Midway Atoll B-578 & B-579, H13-655

Fiber Count Determination

Method NIOSH 7400

Sample No.	Your Sample description	Total Fibers	Total Fields	Reported Air Vol (L)	Results	Units	Date Submitted	Date Analyzed
20131028088	**0923, Derek Butay B579-578, 8/28/13**	0	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.0 f/mm2. TWA is < 0.0022 f/cc.							
20131028089	**0925, Derek Butay B579-578, 8/29/13**	2	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 2.5 f/mm2. TWA is < 0.0022 f/cc.							
20131028090	**0931, Kailialoha Kaawa B578, 8/30/13**	0.5	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.6 f/mm2. TWA is < 0.0022 f/cc.							
20131028091	**0913, Kailialoha Kaawa B578, 8/31/13**	0.5	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.6 f/mm2. TWA is < 0.0022 f/cc.							
20131028092	**0934, Dane Borero B578, 9/2/13**	0	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013
Comments	Fiber Density = 0.0 f/mm2. TWA is < 0.0022 f/cc.							

White Environmental Consultants
197 Sand Island Access Rd., Suite 203

Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20134160
Your Project: Midway Atoll B-578 & B-579, H13-655

Fiber Count Determination

Method NIOSH 7400

Sample No.	Your Sample description	Total Fibers	Total Fields	Reported Air Vol (L)	Results	Units	Date Submitted	Date Analyzed
20131028093	**0893, Dane Borero B578, 9/3/13**	1	100	1200	< 0.0022	f/cc	10/28/2013	11/2/2013

Comments Fiber Density = 1.3 f/mm2.
TWA is < 0.0022 f/cc.

General Comments
The air filter analyses subject of this Analytical Report were conducted in general accordance with the procedures outlined in the National Institute of Occupational Safety and Health's "Asbestos and Other Fibers by PCM" Method 7400, Issue 2, Aug 1994. Note that although this method is primarily used for estimating airborne asbestos concentrations, PCM does not differentiate between asbestos and other fibers. Any airborne fiber may interfere since all particles meeting the counting criteria are counted. Chain-like particles may appear fibrous. High levels of non-fibrous dust particles may obscure fibers in the field of view and increase the detection limit. Transmission Electron Microscopy (TEM) Method 7402 should be employed for assistance in the identification of individual fibers. Fibers less than 0.25 micrometers in diameter may not be detected by this method. NIOSH 7400 recommends 2 field blanks or 10% of the sample set, whichever is greater. Results have not been corrected for field blank determinations unless noted in remarks. This report is not to be duplicated except in full without the expressed written permission of Galson Pacific. Galson Pacific intra-laboratory CV for the fiber density range of [5-20] is 0.148; [>20-50] is 0.235; [>50-100] is 0.120; and [>100] is 0.207. Galson Pacific inter-laboratory CV for the fiber density range of [5-20] is 0.211; [>20-50] is 0.162; [>50-100] is 0.12; and [>100] is 0.130. The reporting limit for this method is based on 7 fibers / mm2/ 100 fields. Concentration and TWA values have been calculated based on information supplied by the client that the laboratory cannot verify. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Symbols Definitions
NA = Not Analyzed due to severe interference from "debris" and / or sample particulate "overloading", although an attempt was made.
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.

Ms. Eva Skogsberg
Section Supervisor Microbiology and Organics

ASBESTOS AIR SAMPLING FIELD REPORT

Iniki Enterprises, Ltd
1040 Sand Island Pkwy., #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name:	Midway Atoll
Site:	B-578 & B579
Client Name:	
Project #:	

Samples Submitted By:	
Print Name:	
Date:	

ID #	*DATE*	*PUMP #*	*NAME & SS#, OR LOCATION*	*CTGY*	*TIME ON*	*TIME OFF*	*TOTAL MINS.*	*PRE LPM*	*POST LPM*	*FINAL LPM*	*AIR VLME*	*fibers/ field*	*CONC. f/cc*	*8 hr TWA f/cc*
0907	8/23/13	1	Dane Bonero B579		8:00	4:00	480	2.5	2.5	2.5	1200			
0910	8/24/13	1	Dane Bonero B579		8:00	4:00	480	2.5	2.5	2.5	1200			
0917	8/26/13	1	Lauren Lewis B579		8:00	4:00	480	2.5	2.5	2.5	1200			
0920	8/27/13	1	Lauren Lewis B579		8:00	4:00	480	2.5	2.5	2.5	1200			
0923	8/28/13	1	Derek Buday B579-578		8:00	4:00	480	2.5	2.5	2.5	1200			
0925	8/29/13	1	Derek Buday B579-578		8:00	4:00	480	2.5	2.5	2.5	1200			
0931	8/30/13	1	Kailialoha Kaawa B 578		8:00	4:00	480	2.5	2.5	2.5	1200			
0913	8/21/13	1	Kailialoha Kaawa B 578		8:00	4:00	480	2.5	2.5	2.5	1200			

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
FB	FIELD BLANK
IA	INSIDE AREA

LB	LOT BLANK
OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:	
DATE:	

REVIEWED BY:	
DATE:	

ASBESTOS AIR SAMPLING FIELD REPORT

Iniki Enterprises, Ltd
1040 Sand Island Pkwy., #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name:	Midway Atoll
Site:	B 578 & B579
Client Name:	
Project #:	

Samples Submitted By:	
Print Name:	
Date:	

ID #	*DATE*	*PUMP #*	*NAME & SS#, OR LOCATION*	*CTGY*	*TIME ON*	*TIME OFF*	*TOTAL MINS.*	*PRE LPM*	*POST LPM*	*FINAL LPM*	*AIR VLME*	*fibers/ field*	*CONC. f/cc*	*8 hr TWA f/cc*
0934	9/2/13	1	Dane Bovero B578		8:00	4:00	480	2.5	2.5	2.5	1200			
0893	9/3/13	1	Dane Bovero B578		8:00	4:00	480	2.5	2.5	2.5	1200			

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
FB	FIELD BLANK
IA	INSIDE AREA

LB	LOT BLANK
OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:	
DATE:	

REVIEWED BY:	
DATE:	

WHITE LABORATORIES LLC.

197 Sand Island Access Rd. Unit 203 Honolulu, HI 96819 Phone: 808-843-0655 Fax: 808-843-0657

WLH Project Number: 655

Client Name / Billing Information: Shiki	*Client Project Name / Location:* Midway Attn B-578 + B579
ph:	
fax: *email:*	*Client Project Number:*
Relinquished by: Gary Lewis	*Received by:* SM
Date Relinquished: 10/28	*Received Date:* 11-28-13 *Time:* 1155

Please write a sample description in the space provided.
(i.e. paint chips, concrete, specific location samples were collected, etc.)

[ ] **Please provide verbal results to:** _____ **Phone #:** _____

Circle requested TAT: RUSH 24hr 48hr 72hr (5day)

Place an 'X' under the requested analysis per sample received.

***For mold only**, Circle Requested TAT:* RUSH *Standard (48-72 hrs)*

	Client Sample Number	Collection Date	Sample Description	PCM NIOSH 7400A	PLM EPA 600/R93/116	TEM	Pb Air NIOSH 7082	* Pb Wipe HUD 14.2	Pb Paint SW 846-7420	Pb Soil SW 846-3050B	TCLP SW 846-1311	Non-Viable Mold	Viable Mold	8 RCRA Metal TCLP	PCB	Arsenic Air, Bulk, TCLP	Other	Acceptable/ Not Acceptable (A/NA)
1	0907	8-23		X														A
2	0910	8-24																
3	0917	8-26																
4	0920	8-27																
5	0923	8-28																
6	0925	8-29																
7	0931	8-30																
8	0913	8-31																
9	0934	9-2																
10	0893	9-3																↓
11																		
12																		
13																		

* All samples submitted to WL LLC shall be sealed in the appropriate container, cartridge, or collection vessel; shall be free of exterior dust or contamination; and shall pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Wipe samples must meet ASTM requirements before analysis is run. WL cannot determine whether wipe samples meet ASTM requirements.

* All samples are received in good condition unless otherwise stated.

* *Document any correspondence with client regarding sample acceptance criteria or other aspects of analytical request on an attached sheet.*

Galson Laboratories Pacific Rim
ANALYTICAL REPORT

Tuesday, October 22, 2013

3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
VOICE: (888) 432-5227
www.galsonlabs.com/pacific-rim/

White Environmental Consultants
197 Sand Island Access Rd., Suite 203

Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20133943
Your Project: H13-655, Midway Atoll Lead Abatement

Fiber Count Determination

Method NIOSH 7400

Sample No.	Your Sample description	Total Fibers	Total Fields	Reported Air Vol (L)	Results	Units	Date Submitted	Date Analyzed
20131016063	**1 Darrin Engoring, Marine Barracks, 10/3/13**	5	100	1200	< 0.0022	f/cc	10/16/2013	10/19/2013

Comments: Fiber density = 6.4 f/mm2
TWA is < 0.0022 f/cc.

White Environmental Consultants
197 Sand Island Access Rd., Suite 203

Honolulu HI 96819

Phone Number: (808) 843-0655
Facsimile: (808) 843-0657
Email: honolulu_lab@wecenv.com

Galson Job No: 20133943
Your Project: H13-655, Midway Atoll Lead Abatement

General Comments

The air filter analyses subject of this Analytical Report were conducted in general accordance with the procedures outlined in the National Institute of Occupational Safety and Health's "Asbestos and Other Fibers by PCM" Method 7400, Issue 2, Aug 1994. Note that although this method is primarily used for estimating airborne asbestos concentrations, PCM does not differentiate between asbestos and other fibers. Any airborne fiber may interfere since all particles meeting the counting criteria are counted. Chain-like particles may appear fibrous. High levels of non-fibrous dust particles may obscure fibers in the field of view and increase the detection limit. Transmission Electron Microscopy (TEM) Method 7402 should be employed for assistance in the identification of individual fibers. Fibers less than 0.25 micrometers in diameter may not be detected by this method. NIOSH 7400 recommends 2 field blanks or 10% of the sample set, whichever is greater. Results have not been corrected for field blank determinations unless noted in remarks. This report is not to be duplicated except in full without the expressed written permission of Galson Pacific. Galson Pacific intra-laboratory CV for the fiber density range of [5-20] is 0.148; [>20-50] is 0.235; [>50-100] is 0.120; and [>100] is 0.207. Galson Pacific inter-laboratory CV for the fiber density range of [5-20] is 0.211; [>20-50] is 0.162; [>50-100] is 0.12; and [>100] is 0.130. The reporting limit for this method is based on 7 fibers / mm2/ 100 fields. Concentration and TWA values have been calculated based on information supplied by the client that the laboratory cannot verify. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Symbols Definitions

NA = Not Analyzed due to severe interference from "debris" and / or sample particulate "overloading", although an attempt was made.
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.

Ms. Jennifer Hsu Liao
Laboratory Manager

ASBESTOS AIR SAMPLING FIELD REPORT

Page 1 of 3

Iniki Enterprises, Ltd
1040 Sand Island Pkwy., #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

Project Name:	Midway Atoll Lead Abatement
Site:	Midway Atoll
Client Name:	Northwest / USFWS
Project #:	

Samples Submitted By:	
Print Name:	
Date:	10/16/13

ID #	*DATE*	*PUMP #*	*NAME & SS#, OR LOCATION*	*CTGY*	*TIME ON*	*TIME OFF*	*TOTAL MINS.*	*PRE LPM*	*POST LPM*	*FINAL LPM*	*AIR VLME*	*fibers/ field*	*CONC. f/cc*	*8 hr TWA f/cc*
1	10/3/13	1	Darrin Engering Marina Barracks		8:00	4:00	440	2.5	2.5	2.5	1200			

CATEGORY

B	BACKGROUND
C	CLEARANCE
ENV	ENVIRONMENTAL

EX	EXCURSION
FB	FIELD BLANK
IA	INSIDE AREA

LB	LOT BLANK
OA	OUTSIDE AREA
P	PERSONAL

ANALYZED BY:	
DATE:	

REVIEWED BY:	
DATE:	

WEC WHITE ENVIRONMENTAL CONSULTANTS INC.

197 Sand Island Access Rd. Unit 203 Honolulu, HI 96819 Phone: 808-843-0655 Fax: 808-843-0657

WEC Project Number: 653

Client Name / Billing Information: Shiki Enterprises	*Client Project Name / Location:* Midway Atoll Lead Abatement
ph:	
fax: *email:*	*Client Project Number:*
Relinquished by: Gary Lewis Inc	*Received by:* SM
Date Relinquished:	*Received Date:* 10-16-13 *Time:* 0815

Please write a sample description in space provided.
(i.e. paint chips, concrete, etc.)

[ ] Please provide verbal results to: _____ Phone #: _____

Circle requested TAT: RUSH 24hr 48hr 72hr (5day)

Place an 'X' under the requested analysis per sample received.

***For mold only**, Circle Requested TAT:* RUSH *Standard (48-72 hrs)*

	Client Sample Number	Collection Date	Sample Description	PCM NIOSH 7400A	PLM EPA 600/R93/116	TEM	Pb Air NIOSH 7082	* Pb Wipe HUD 14.2	Pb Paint SW 846-7420	Pb Soil SW 846-3050B	TCLP SW 846-1311	Non-Viable Mold	Viable Mold	8 RCRA Metal TCLP	PCB	Arsenic Air, Bulk, TCLP	Other	Acceptable/ Not Acceptable (A/NA)
1	1	10-3-13		X														A
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		

* All samples submitted to WEC Inc. shall be sealed in the appropriate container, cartridge, or collection vessel; shall be free of exterior dust or contamination; and shall pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Wipe samples must meet ASTM requirements before analysis is run. WEC cannot determine whether wipe samples meet ASTM requirements.

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