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ENVIRONMENTAL PROTECTION

Mr. Scott Smale
Nevada Division of Environmental Protection
Bureau of Corrective Actions
333 W. Nye Lane
Carson City, Nevada 89706

**SUBJECT: Report of Asbestos Abatement Activities
Former Hawthorne Landfill
Mineral County, Nevada**

*Reference: "Asbestos Abatement Specification, Former Hawthorne Landfill,
Hawthorne, Nevada", dated September 26, 2005, Kleinfelder, Inc.*

Dear Mr. Smale:

Kleinfelder is pleased to provide this report to the Nevada Division of Environmental Protection (NDEP) for asbestos abatement activities at the Former Hawthorne Landfill, Hawthorne, Nevada (Plates 1 and 2, Attachment A). Kleinfelder provided asbestos abatement services to the NDEP at the Mineral County owned facility prior to planned surface debris consolidation. The work was performed under the existing contract between Kleinfelder and the NDEP (Contract No. 06-015).

Background

The former Hawthorne Landfill operated from the early 1920's until 1972. Municipal waste was reportedly buried in trenches and burned. An assessment performed by the US Army Corps of Engineers (USACE) in October 2001 showed no indication of hazardous, toxic or radioactive waste. In 2004, the NDEP contracted Kleinfelder to provide a legal survey and install a boundary fence at the subject site. In 2005 the NDEP contracted Kleinfelder to perform cleanup planning and training activities (Phase I), and surface debris consolidation (Phase II). During initial Phase I Closure Plan activities, suspected Asbestos Containing Material (ACM) was observed on the ground surface of the Site. The suspected ACM was observed as cementitious roofing tiles and friable pipe insulation material. The NDEP requested Kleinfelder provide a scope of services and cost estimate to abate the identified ACM. Asbestos abatement services were provided as a part of the Phase III Closure Plan as outlined in the following tasks:

- Task 1: Prepare a Phase III Workplan
- Task 2: Asbestos Disposal
- Task 3: Surface Debris Disposal
- Task 4: Trench Surveying
- Task 5: Prepare Report of Completion

Kleinfelder subcontracted Sato Environmental Consultants, Inc. to provide abatement contractor oversight and final clearance services. This was intended to avoid a conflict of interest since Kleinfelder hired the abatement contractor to provide abatement services at the Mineral County owned facility, and since Mineral County is also a Kleinfelder subcontractor.

Scope of Services

Kleinfelder prepared the referenced Asbestos Abatement Specification (Specification) for the Former Hawthorne Landfill. The specification described procedures and protocol to be used by the contractor during abatement activities. Three asbestos abatement contractors attended the pre-bid meeting held at the subject site on September 27, 2005. The Specification was provided to the contractors, material quantities were estimated for bid purposes, and abatement bids were requested. Material quantities are documented in the Asbestos Abatement Specification. Plates 3 and 4, Attachment A, show pre-abatement condition of portions of the site.

Based on the abatement proposal fees and contractor ability to respond within a short time frame, Diversified Demolition Company of Reno, Nevada was selected as the asbestos abatement contractor. Kleinfelder subcontracted Diversified Demolition, to provide services in accordance with the specification. As previously stated, Kleinfelder subcontracted Sato Environmental Consultants, Inc., a Nevada licensed abatement consultant, to provide contractor oversight and final clearance services.

Diversified Demolition Company performed asbestos abatement and disposal activities in general accordance with the prepared specification. Certification documentation for asbestos abatement personnel and disposal documentation is included as Attachment B. Abatement activities occurred on October 10, 11, 14 and 18, 2005. Kleinfelder provided oversight services including site visits on October 11, 14 and 17, 2005, and communication with both subcontractors. Plate 5, Attachment A, shows abatement activities and Plate 6 shows post-abatement locations. Sato Environmental Consultants, Inc. provided onsite contractor oversight and final clearance services. Final clearance was performed visually following abatement activities to allow planned surface debris consolidation activities to proceed safely. Documentation of asbestos abatement monitoring and final clearance performed by Sato Environmental Consultants, Inc. is included as Attachment C.

Future Site Activities

The asbestos abatement activities are intended to be a source reduction project. As stated in the abatement specification, identified piles of ACM were removed, but a potential exists that unidentified and/or buried ACM will remain at the subject site following abatement activities. The abatement specifications were developed based on discussions with the NDEP, with the EPA Region 9, with the Nevada Division of Industrial Relations Nevada Asbestos Abatement Program and with Mineral County.

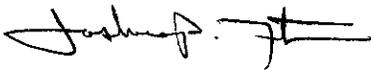
Mineral County plans to utilize heavy equipment to consolidate surface debris at the landfill. Due to the potential for unidentified ACM to remain at the site, the Recommendations and Guidelines for Future Dirt Work at the Site, Attachment B, should be implemented. Additionally, the EPA Regulatory Requirements section of Attachment B, should be utilized.

Closure

This report is intended to serve as a brief summary of asbestos abatement activities. This report should not be relied upon without a thorough review of the referenced Asbestos Abatement Specifications, and Attachments A and B. If you have any questions or require any additional information regarding this report, please contact either of the undersigned at (775) 689-7800.

Respectfully submitted,

KLEINFELDER, INC.



Joshua P. Fortmann, C.E.M.
Project Geologist



Eric Hubbard, C.E.M.
Geoscience Manager

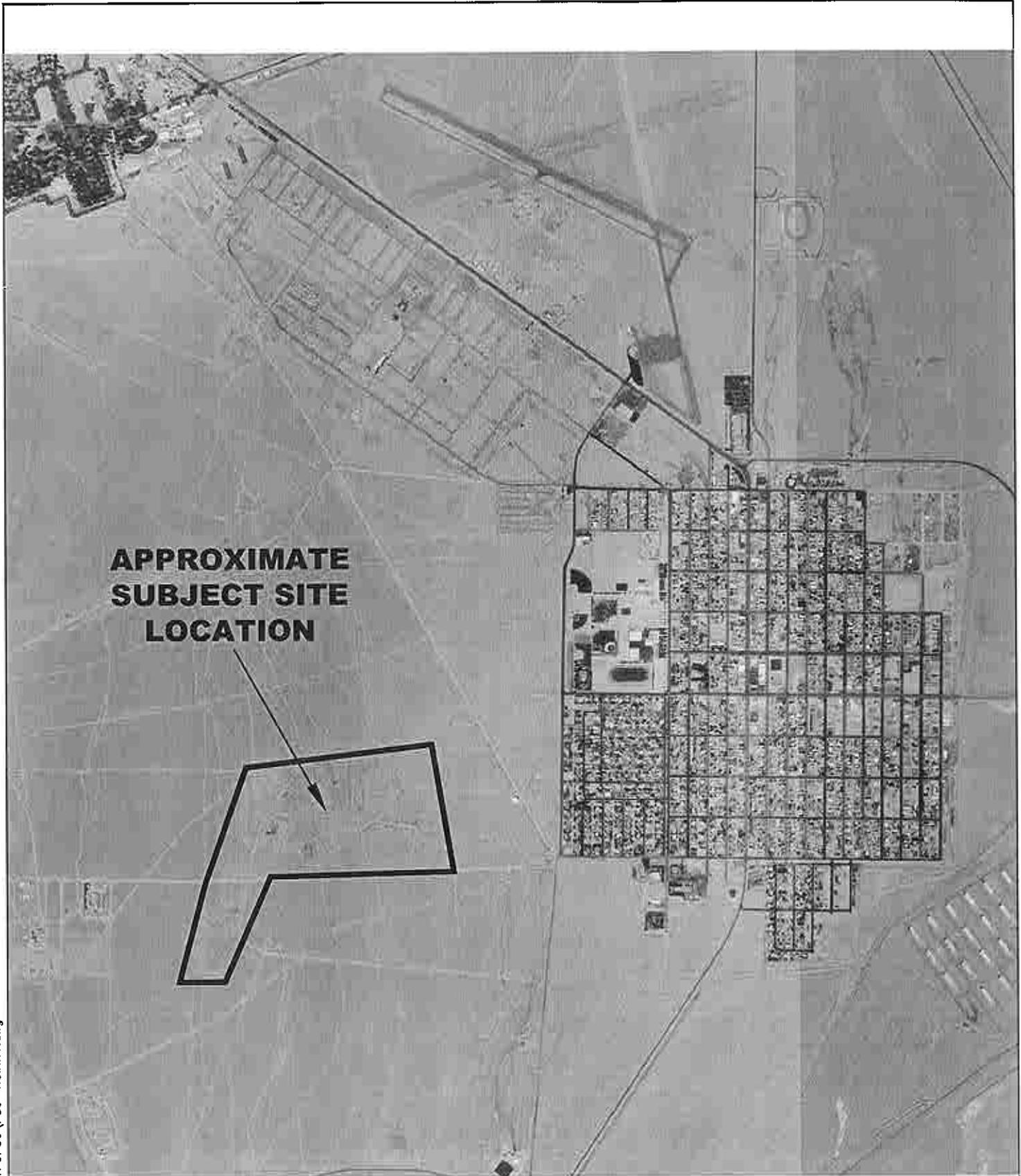
Attachment A: Plates

Attachment B: Sato Environmental Consultants, Inc. Report

Attachment C: Diversified Demolition Company Report and Hawthorne Utilities Waste Disposal Invoice

Attachment A

Plates



**APPROXIMATE
SUBJECT SITE
LOCATION**

CAO FILE: L:\2005\DRAWING\30YF5P80\P80-VICINITY.dwg

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KLEINFELDER

4875 LONGLEY LANE, SUITE 100
RENO, NEVADA 89502
Tel. (775) 689-7800

SITE VICINITY MAP

FORMER HAWTHORNE LANDFILL
HAWTHORNE, NEVADA

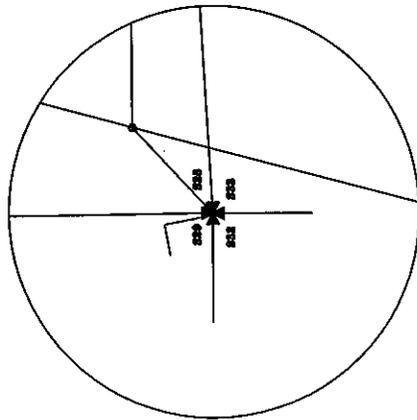
PLATE

1

PROJECT NO. 30-YP5-P80

**TOTAL AREA SURVEYED
185.25 ACRES**

LINE TABLE



**DETAIL
(NOT TO SCALE)**

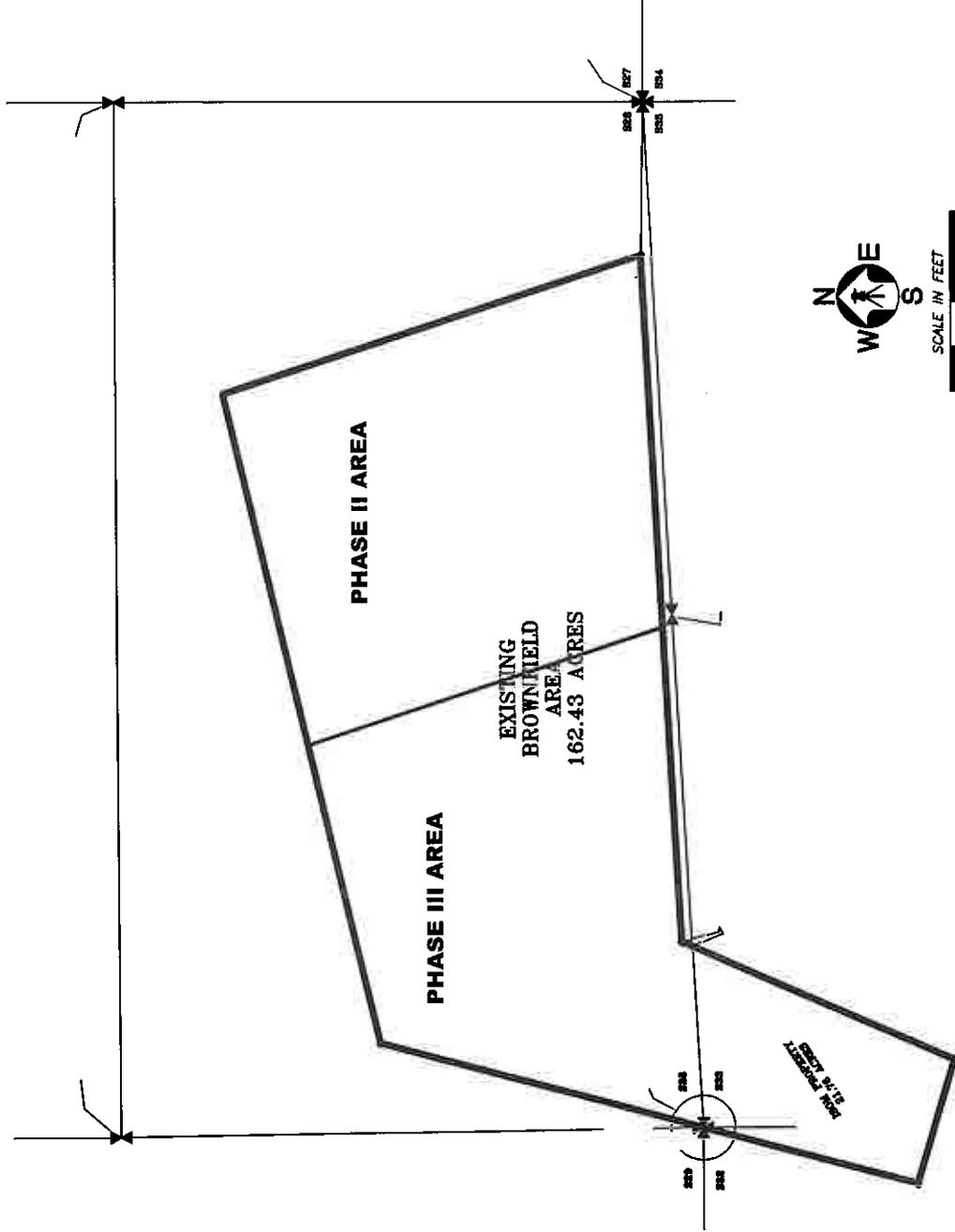
RECORD OF SURVEY FOR

MINERAL COUNTY

OF A PORTION
OF SECTIONS 29, 32 AND 33
IN SECTION 26, TOWNSHIP 8 NORTH RANGE 30 EAST
NORTH NAD80 MERIDIAN
MINERAL COUNTY, NEVADA

Division of Geology
& Earth Sciences
Reno, Nevada
(775) 444-3001

C. STROM, Jr.



SCALE IN FEET
0 450 900

SITE PLAN

PLATE

2

KLEINFELDER

4875 LONGLEY LANE, SUITE 100
RENO, NEVADA 89502
Tel. (775) 689-7800

FORMER HAWTHORNE LANDFILL
MINERAL COUNTY, NEVADA

PROJECT NO. 30-YP5-P80

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Photo 1:
Thermal system
insulation located on
the subject site.



Photo 2:
Thermal system
insulation close-up.

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PHOTOGRAPHS

Asbestos Abatement
Former Hawthorne Landfill
Hawthorne, Nevada

PLATE

3



Photo 3:
Asbestos cement
tiles located on the
subject site.



Photo 4:
Corrugated asbestos
cement tile on the
subject site.

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PHOTOGRAPHS

Asbestos Abatement
Former Hawthorne Landfill
Hawthorne, Nevada

PLATE

4



Photo 5:
Asbestos abatement
activities, with small
loader, water truck and
roll-off bin.



Photo 6:
Asbestos abatement
activities.

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PHOTOGRAPHS

Asbestos Abatement
Former Hawthorne Landfill
Hawthorne, Nevada

PLATE

5



Photo 7:
Abatement completed at
former asbestos cement
tile location.



Photo 8:
Abatement completed at
former thermal system
insulation location.

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PHOTOGRAPHS

Asbestos Abatement
Former Hawthorne Landfill
Hawthorne, Nevada

PLATE

6

Attachment B

Sato Environmental Consultants, Inc. Report



224 Vassar Street, Suite A, Reno, NV 89502 * PHONE: (775) 324-4044 * FAX: (775) 324-4635
E-MAIL: andrew@satoenviro.com

December 10, 2005

Kleinfelder, Inc.
Mr. Josh Fortmann, Project Manager
4875 Longley Lane, Suite 100
Reno, Nevada 89502-5953

Regarding: Project Monitoring, Visual Inspections and Clearances Required for Completion of the Limited Abatement of Asbestos Containing Materials (ACMs) included in the Asbestos Source Reduction Project Performed for Mineral County Specific to Eleven (11) Identified Piles of Various ACMs on the Surface of the Ground at the Former Hawthorne Landfill , Located in Hawthorne, Nevada

Sato Environmental Project # 134-09(L)

Dear Mr. Fortmann:

As contracted, Sato Environmental Consultants, Inc. provided professional services to Kleinfelder including abatement project design and monitoring of the project through final visual clearance. Sato Environmental monitored the removal of Non-Friable and Friable Asbestos Containing Materials (ACMs) included in the Abatement Contractor's Scope of Work. The ACMs abatement project consisted of various ACMS including Asbestos Cement (AC) Panels, AC Exterior Wall Shingles, AC Debris, Resilient Flooring and Jacketed Insulation on Pipe evidently deposited at random by the public following closure of the former landfill. The piles of ACMs were apparently deposited during a period of several years following closure of the Former Landfill when the property was no longer intended for use as a dump. There was no fencing around the site and the public had ready access for illegal dumping. The former landfill property is presently fenced off which made the abatement more feasible. Sato Environmental Consultants, Inc. monitored the removal of ACM from 11 specific locations where piles of ACM were identified on the surface of the ground at the Former Landfill. The intent of the abatement project was to eliminate identified piles of gross ACM that existed on the surface of the ground in various random locations spread over the 180 acre Former Landfill site. This project only addressed the locations of the known asbestos abatement included in the scope of work which are photo documented and attached for reference.

The purpose of abating the identified ACMs from the surface of the ground was to reduce the potential of airborne asbestos contamination due to erosion or potential disturbance by future vehicle and heavy construction equipment traffic at the site for Non-ACM surface waste segregation and grooming of the soil to level the landscape of the site. This report summarizes the abatement project scope of work, schedule, procedures, monitoring inspections, compliance and clearance visual inspections to verify that the asbestos abatement scope of work had been completed.

Diversified Demolition (an Asbestos Abatement Contractor from Reno, licensed in Nevada) was the Asbestos Abatement Contractor selected by Kleinfelder to perform the asbestos abatement included in the Former Landfill abatement project. Mr. Anthony Valentine served as the Project Manager for Diversified Demolition and Mr. Santiago Lemus served as the on-site Abatement Supervisor for the abatement project.

Based on Hawthorne County wanting to complete the abatement prior to winter weather potentially delaying the project until the Spring of 2006, the project was scheduled on a fast-track basis. The urgency of the project required Diversified to request a waiver of the 10 day waiting period typically required when providing 10 Day Asbestos Abatement Project written Notifications to Environmental Protection Agency (EPA), Region IX and Nevada, Occupational Safety and Health Administration (OSHA) on this type of project.

Scope of Work for the Former Landfill

The following abatement Scope of Work was revised based on field conditions that were clarified as the on-site abatement work was being performed. The Abatement Contractor's scope of work was changed from a quantity of 10 to 11 identified piles/locations where all visible ACMs, ACM debris and visibly contaminated soil was to be removed from the surface of the ground and disposed of at the Current Landfill.

Additionally revised was the boundary of the clean-up of ACMs debris which was changed from a perimeter of approximately 10 feet from the boundary of each of the piles as initially specified to a perimeter of up to 50 feet.

The following table was changed to reflect the 11 piles actually included in the Scope of Work.

SCOPE OF ASBESTOS SOURCE REDUCTION WORK AT THE HAWTHORNE FORMER LANDFILL	
ASBESTOS-CONTAINING MATERIAL TO BE REMOVED	ESTIMATED QUANTITY
Identified Piles of Asbestos Cement (AC) (Transite) Siding Shingles, Corrugated AC Scraps and TSI on ground surface.	Quantity: 11 ea.

Abatement Schedule Summary

The following is a chronologic summary of the abatement events for the project. A more detailed description of the abatement procedures utilized and information regarding monitoring and clearances for the project is provided following this section.

On Monday October 10, 2005, Mr. Santiago Lemus of Diversified Demolition and an abatement crew mobilized to the site to begin abatement operations at the Former Landfill. The crew had correct personnel documents and EPA and OSHA Notifications to allow for starting of work on the project as scheduled.

On Tuesday October 11, 2005, Andrew Sato of Sato Environmental met on-site with Diversified's personnel and reviewed the scope of work to assure that abatement personnel understood the locations of the ACMs designated for removal at the Former Landfill.

On Friday, October 14, 2005, Andrew Sato of Sato Environmental performed visual inspections following Diversified's removal and cleaning of approximately 50% of the 11 piles of ACMs that had been abated at that time to verify (as feasible) that all visible ACMs and debris had been completely removed from the soil in the abated perimeter of up to 50 feet around each of the 11 piles at the Former Landfill.

On Tuesday, October 18, 2005, Andrew Sato inspected all 11 locations where piles of ACM were abated including re-inspections of the locations that had previously been inspected; the final visual clearance inspections passed.

The abatement work was performed according to the Schedule for both daily shift times and total days allowed which included two additional working days for changes to the Scope of work which was agreed to by Kleinfelder and Diversified Demolition.

Asbestos Abatement Procedures

1. The Abatement Contractor was required to demarcate the boundary to isolate each of the 11 regulated work areas with barriers of wooden stakes, asbestos warning tape or asbestos hazard warning signs and barrier tape from the start of removal activities and for the duration of the work in each work area.
2. The Abatement Contractor was required to designate a worker decontamination area at each of the regulated areas and have workers practice proper decontamination procedures.
3. The Abatement Contractor was required to provide wet cloths, water buckets or bottles for cleaning of tools and washing off of respirators, hands and faces of abatement personnel exiting the work areas.
4. The Abatement Contractor was required to have abatement personnel don respirators

and disposable abatement suits to perform removal of the piles of ACM and debris.

5. The Abatement Contractor was required to have all abatement personnel including equipment operators entering the regulated areas utilize the appropriate Personal Protective Equipment including Abatement Suits and Respirators.
6. The Abatement Contractor was required to perform personnel exposure monitoring for asbestos on all work tasks including equipment operation during the abatement work.
7. The Abatement Contractor was required to comply with their company Health and Safety Plan. A fire extinguisher was to be kept available at each work area location.
8. The Abatement Contractor was required to hold bi-weekly safety meetings for all site workers.
9. The Abatement Contractor was required to utilize mainly hand methods to pick up and dispose of the ACMs to minimize the potential to render Non-Friable ACMs Friable during removal of ACM piles and debris.
10. The Abatement Contractor was required where the soil was contaminated with small pieces of debris over a large area to utilize heavy equipment (a Bobcat Loader) that was provided by Mineral County to scrape the surface of the soil and load the waste into a waste hauling dump trailer also provided by Mineral County.
11. The Abatement Contractor was required to pick up and bag, or load with a loader into a lined trailer, all visible suspect and visible ACMs and ACMs debris from the ground at each identified pile location to a distance of up to approximately 50 feet from the source pile.
12. The Abatement Contractor was required to double bag or double wrap the ACM and ACM debris in 6mil. polyethylene sheeting for disposal as Friable or Non-Friable asbestos containing waste depending on the condition of the material.
13. The Abatement Contractor was required to double bag or double wrap soil that was visibly contaminated with ACM debris in 6 mil. polyethylene sheeting for disposal as Friable asbestos containing waste.
14. The Abatement Contractor was required to double wrap the TSI identified in one of the 11 piles in 6 mil. polyethylene sheeting for disposal as Friable ACM.
15. The Abatement Contractor was required to treat the ACM as Friable if heavy equipment was used for clean-up handling and loading for disposal.
16. The Abatement Contractor was required to have the on-site Abatement Supervisor make the determination of friable versus non-friable condition regarding disposal of the abated ACMs.

Project Bulletin Board

The Abatement Contractor was required to place the project bulletin board at the project site which was to be moved from location to location as necessary. Items required to be posted on this board include copies of notifications, all Material Safety Data Sheets (MSDS) for materials used on the project, emergency phone numbers (hospital, fire department, police, and the Abatement Contractor's personnel), proof of the Abatement Contractor's license, proof of the required insurance, and any other postings required by OSHA or SIIS (for worker's compensation).

Access/Security

- A. The Abatement Contractor was required to provide adequate security measures to prevent any unauthorized entry into the abatement work areas at all times the abatement work was being performed. During abatement work shifts, the entrances to work areas were not to be left unattended. At all times when abatement work was not being performed, the Abatement Contractor was required to ensure that all gates to the Former Landfill site remain locked.
- B. The Abatement Contractor was required to secure the waste storage and/or dump containers until the waste was deposited at the Current Landfill.

Respiratory Protection

The Abatement Contractor was required to provide appropriate respirators equipped with High Efficiency Particulate Air (HEPA)-filter cartridges shall be used for ACM removal. All abatement personnel were required to wear half-face, Negative Pressure or full face Powered Air Purifying Respirators with HEPA filters in work areas starting when removal of ACM began or whenever inside the regulated areas.

Water for Abatement

Water was furnished by Mineral County by providing a water truck to the Former Landfill site for use by the abatement contractor during abatement activities.

Abatement Monitoring and Clearance Visual Inspections

Sato Environmental performed periodic site visits and visual inspections to verify that the Abatement Contractor was performing the abatement work in compliance with the Asbestos Abatement Specifications, the Supplemental Technical Specifications and Applicable Asbestos Abatement Regulations.

The Abatement Contractor utilized work practices including keeping the ACMs sufficiently wet and assuring that construction equipment did not pulverize the ACMs while loading the waste.

The work practices and ACM handling methods were monitored to minimize the potential for the release of airborne asbestos contamination during removal of the ACMs from the 11 designated work area locations.

On Tuesday October 11, 2005, Andrew Sato of Sato Environmental met on-site with Santiago Lemus, Diversified's on-site Supervisor and reviewed the scope of work to assure that abatement personnel understood the locations of the ACM designated for removal at the Former Landfill.

On Friday, October 14, 2005, Andrew Sato of Sato Environmental performed visual inspections following Diversified's removal and cleaning of approximately 50% of the 11 piles of ACMs that had been abated at that time. The inspections were to verify (as feasible) that all visible ACMs and debris had been completely removed from the surface of the soil in the abated perimeter of up to 50 feet around each of the piles abated. Several of the work areas inspected required some additional clean-up of ACM debris which was addressed immediately by Diversified workers before the clearance visual inspections were passed.

On Tuesday, October 18, 2005, Andrew Sato of Sato Environmental performed the final visual inspection following Diversified's removal and cleaning to verify (as feasible) that all visible ACMs and debris had been completely removed from the surface of the soil in the abated perimeter of up to 50 feet around each of the 11 pile locations at the Former Landfill.

On Tuesday, October 18, 2005, Andrew Sato inspected all 11 locations where piles of ACM were abated including re-inspections of the locations that had previously been inspected to assure that all of the locations were sufficiently cleaned-up. Several of the work areas inspected required some additional clean-up of ACM debris which was immediately addressed that day by Diversified workers before the final clearance visual inspections were passed.

Perimeter Air Monitoring

Airborne fiber levels outside the work areas were not monitored by the Abatement Contractor during abatement work, however, personnel air monitoring was performed and the Personnel Air Sample results are within the OSHA clearance standard for re-occupancy of an area following an asbestos abatement project. The Personnel Air Sample results are attached to this report for reference. The area air monitoring was waived, partially due to the fact that the nearest area that non-abatement personnel or public traffic could occupy was several hundred feet away from any of the 11 removal areas. Additionally, the area air monitoring was not required due to the potential ACM contamination due to pre-existing conditions surrounding the landfill site which were not included in the abatement project. If elevated asbestos fiber levels had been measured, the source of the contamination would have been difficult if not impossible to identify.

Pre-Existing Conditions

According to Mineral County personnel associated with the project, past demolition of houses and/or structures adjacent to and surrounding the Former Landfill was performed without removing the AC exterior siding shingles from the structures prior to demolition which left AC Shingle debris on the ground in an area which includes dozens of acres of land. The demolition of structures in the past without removing the AC Shingles created a condition of soil contamination with visible pieces of AC shingles that range from 1/8th of a square inch to several square inches in size. Past heavy equipment usage for the previous demolition work processed the soil in the area surrounding the Former Landfill to a condition that there is an unquantifiable potential of AC debris contamination beneath the surface of the soil. Sato Environmental made several rounds of visual inspections in an effort to minimize the potential of leaving surface soil contamination with AC debris remaining at the site, however, without excavating the soil and potentially removing hundreds of cubic yards for disposal as ACM waste it was not feasible to assure that no sub-surface contamination exists at the Former Landfill site. Based on the fact that there is surface soil contamination with AC debris for numerous acres surrounding the Former Landfill and the fact that Mineral County did not have funds to devote to cleaning up the entire area, it was not feasible to perform sub-surface excavation due to the potential of AC debris contamination being present underground.

The unique environmental condition which exists regarding potential asbestos contamination of soil surrounding the Former Landfill required several consultations with EPA and OSHA representatives regarding compliance and approach to the abatement. The exterior abatement and clearance included in the Former Landfill project is specific only to the immediate surface area at each of the 11 piles of ACM which were identified. Future disturbance of the soil in the area of the Former Landfill by construction equipment or wind erosion could expose additional AC debris potentially remaining just beneath the surface of the soil or underground. Based on past soil excavation at the Former Landfill having exposed ACMs from under the surface of the ground, excavation to abate potential underground ACMs was not included in the scope of the abatement of the 11 piles of ACMs. There remains the potential of underground ACMs existing at the Former Landfill; however, it was not feasible for Mineral County to address potential underground environmental concerns at the time of the project to abate surface ACMs.

Compliance

Sato Environmental performed periodic site visits to verify that the Abatement Contractor performed the abatement work in compliance with the Asbestos Abatement Specifications, the Supplemental Technical Specifications and Applicable Asbestos Abatement Regulations.

All required Asbestos Training Documentation, NV OSHA Asbestos Abatement Worker Licenses, OSHA Hazard Signs, Ground Fault Circuit Interrupters (GFCIS), Personal Protective

Equipment (PPE) and Containment sign-in logs for personnel entering the containment work area as required by OSHA.

A portable sanitary toilet unit was located at the landfill site for use by the abatement personnel for the duration of the project as required by OSHA.

The abatement work observed by Sato Environmental at the Former Landfill was performed in accordance with the required work practices regarding working wet to prevent visible emissions and proper waste handling as required by the Environmental Protection Agency (EPA) National Emissions Standard for Hazardous Air Pollutants (NESHAPS) for the Asbestos Abatement work.

ACM Waste and Disposal

The ACM waste generated during the removal process was wrapped with 6 mil polyethylene sheeting or placed inside standard 6-mil asbestos waste bags. Proper EPA, DOT, and OSHA labeling for asbestos-containing waste was preprinted on the waste bags and generator labels listing Mineral County as the Owner and the site location were placed on the 6-mil asbestos waste containers. All ACM waste generated during the removal process was removed from the Former Landfill prior to the end of the work shift and placed into a polyethylene sheeting lined dump trailer provided by Mineral County for transportation to the Current Landfill located approximately one mile from the site. The waste generated was manifested and a record of the number of loads to the landfill and quantity of the loads was kept by the Abatement Project Supervisor.

Abatement Contractor Demobilization

On Tuesday, October 18, 2005, upon receipt of visual clearances for the all of the 11 designated abatement areas at the Former Landfill, Diversified's crew removed all remaining abatement associated materials and equipment from the project site with the exception of the barrier tape to demarcate the 11 locations which was left for reference by Mineral County.

Recommendations and Guidelines for Future Dirt Work at the Site

To support compliance with regulatory standards during potential future dirt work at the Former Landfill the following recommendations, guidelines and excerpts from the EPA, NESHAPs Regulation have been incorporated into this report for reference. Mineral County's regulatory compliance during dirt work should include but not be limited to information included in this report.

- 1) Asbestos Awareness Training should be provided to dirt work personnel that would be participating in the soil grooming and potential excavation at the site.
- 2) Visual monitoring should be performed to assure that sufficient wetting with fire hoses is applied to dirt work to prevent any visual emissions during the use of heavy equipment.

- 3) Visual monitoring should be performed to assure that sufficient water is applied so that there are no visible emissions when soil and/or Non-ACM waste is being moved and/or loaded into hauling containers or trucks.
- 4) Visual monitoring should be performed during dirt work to verify that no ACMs are exposed that could have gone undiscovered as the abatement scope of work was performed or if underground ACMs are exposed by equipment during dirt work.
- 5) If suspect ACM is discovered or exposed during the dirt work, the waste should be avoided and kept segregated (when feasible) from the balance of the construction debris and not be loaded into waste transporters with typical construction debris or unregulated waste.
- 6) If suspect ACM is discovered Area and/or Personnel Exposure Air Monitoring and PPE could be required by OSHA if ACMs are discovered during the dirt work activities.
- 7) If suspect ACM is discovered, professionals with appropriate training regarding asbestos removal and handling should be consulted.
- 8) Non-Friable ACM waste allowed to be left during demolition of a structure is commonly disposed of as construction debris at landfill sites.

EPA Regulatory Requirements

The following section is from a manual which was prepared by TRC Environmental Corporation for the Stationary Source Compliance Division of the U.S. Environmental Protection Agency and has been added to this report for reference.

DEMOLITION PRACTICES UNDER THE ASBESTOS NESHAP

DEMOLITION PRACTICES UNDER THE ASBESTOS NESHAP

SECTION 1

DEMOLITION PRACTICES AND NONFRIABLE MATERIALS

INTRODUCTION

EPA revised the asbestos NESHAP regulations on November 20, 1990 (see 40 CFR Part 61 Subpart M). Although the NESHAP has not been revised to alter its applicability to friable and nonfriable asbestos-containing materials (ACM), nonfriable asbestos materials are now classified as either Category I or Category II material.

Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings and gaskets. Asbestos-containing mastic is also considered a Category I material (EPA determination - April 9, 1991). Category II material is defined as all remaining types of non-friable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Nonfriable asbestos-cement products such as transite are an example of Category II material.

The asbestos NESHAP specifies that Category I materials which are not in poor condition and not friable prior to demolition do not have to be removed, except where demolition will be by intentional burning. However, regulated

asbestos-containing materials (RACM) and Category II materials that have a high probability of being crumbled, pulverized, or reduced to powder as part of demolition must be removed before demolition begins.

PURPOSE

EPA has identified a need to address how specific demolition practices affect Category I and II nonfriable ACM. The purpose of this manual is to provide asbestos NESHAP inspectors with such information.

This manual is intended to apply primarily to demolition and cleanup activities for buildings that contain Category I nonfriable ACM. Although references will be made to Category II nonfriable ACM, for the purposes of this document, it and all other RACM will be assumed to have been removed prior to the start of actual demolition activities. Work practices associated solely with building renovations will not be addressed.

This manual is designed to assist the asbestos NESHAP inspector in identifying practices that normally do or do not make Category I nonfriable ACM become regulated asbestos-containing material (RACM). Applicability determinations (both formal and informal) provided by the Regional NESHAP Coordinators have been incorporated into the appropriate sections of this document in an effort to promote nationwide consistency in applying the asbestos NESHAP to these demolition practices.

Activities associated with site cleanup such as segregation, reduction, and on and offsite disposal of ACM are discussed because they may take place during or after the major demolition activities at a site and consequently may influence a demolition contractor's choice of methods

DEFINITIONS

The following definitions taken from the November 20, 1990 revision of the asbestos NESHAP regulation are provided for ease of reference.

Adequately wet means sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material has not been adequately wetted. However, the absence of visible emissions is not sufficient evidence of being adequately wet.

Asbestos-containing waste materials means mill tailings or any waste that contains commercial asbestos and is generated by a source subject to the provisions of this subpart. This term includes filters from control devices, friable asbestos waste material, and bags or other similar packaging contaminated with commercial asbestos. As applied to demolition and renovations operations, this term also includes regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing.

Category I nonfriable asbestos-containing material (ACM) means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II nonfriable ACM means any material, excluding Category I nonfriable ACM, containing more than one percent asbestos as determined using the methods specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Cutting means to penetrate with a sharp-edged instrument and includes sawing, but does not include shearing, slicing, or punching.

Demolition means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

Regulated asbestos-containing material (RACM) means (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart. Remove means to take out RACM or facility components that contain or are covered with RACM from any facility.

Visible emissions means any emissions, which are visually detectable without the aid of instruments, coming from RACM or asbestos-containing waste material, or from any asbestos milling, manufacturing, or fabricating operation. This does not include condensed, uncombined water vapor.

Waste generator means any owner or operator of a source covered by this subpart whose act or process produces asbestos-containing waste material.

Waste shipment record means the shipping document, required to be originated and signed by the waste generator, used to track and substantiate the disposition of asbestos-containing waste material.

STATE AND LOCAL REGULATIONS

State and local asbestos regulations are sometimes more stringent than the asbestos NESHAP regulations. This does not imply, however, that Category I nonfriable ACM is necessarily removed from a building prior to demolition. Contractors surveyed during research conducted in the preparation of this manual indicated that they typically treated Category I nonfriable ACM as RACM only when the owner or operator of the building being demolished was a state or local government agency or when project specifications explicitly specified that one or more of the Category I nonfriable ACM materials be removed prior to the start of demolition.

ABATEMENT PRIOR TO DEMOLITION

Demolition contractors typically require that a building owner/operator accept responsibility for the removal of all asbestos-containing materials found during the building inspection prior to the start of demolition activities. Several contractors indicated that if suspect ACM became exposed during demolition activities, and there was no prior knowledge of its existence at the start of demolition activities, that potential asbestos NESHAP requirements would be disregarded unless a change order was immediately processed by the owner/operator requesting the time and materials necessary to achieve compliance with the asbestos NESHAP. Such practices are in direct violation of the asbestos NESHAP.

Category I materials are considered RACM only when they "will be or have been subjected to sanding, grinding, cutting, or abrading", they are in "poor condition" and "friable", or the structure in which they are located will be demolished by burning. (Definitions for these terms and additional information concerning Category I nonfriable ACM can be found in the preamble to the November 1990 revised asbestos NESHAP (SUPPLEMENTARY INFORMATION, Section IV - Significant Comments..., Demolition and Renovation, Nonfriable ACM and Broken ACM).

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The following information details specific pre-demolition and demolition practices and their impact on Category I nonfriable ACM. The information has been compiled from telephone surveys of demolition contractors, the viewing of activities at a number of demolition sites, and formal and informal EPA applicability determinations. The effects of various demolition practices on asbestos-cement products are also discussed. Since the applicability of the asbestos NESHAP to Category II nonfriable materials is determined on a case-by-case basis, it is hoped that this additional information will help foster nationwide consistency in the application of the regulation to these materials.

As you will see, many of the various demolition techniques described do not, by themselves, cause Category I nonfriable ACM to become RACM. However, in many cases, post-demolition waste consolidation, cleanup, and recycling efforts can cause both Category I nonfriable ACM and Category II nonfriable ACM to become RACM. If that is likely to happen, such materials must be considered RACM and be treated as such. Post-demolition activities which can affect Category I and II materials will be detailed later in this manual.

ASPHALT ROOFING PRODUCTS

The pre-demolition terms and conditions (governmental regulations, contract specifications) discussed in Section 2 also influence the handling of asbestos-containing roofing materials.

Pre-demolition Roof Removal

If preliminary assessment has determined that roofing materials contain asbestos, and regulations or contract specifications dictate removal of such material prior to demolition, licensed abatement contractors may be required to do the removal. Alternatively, the demolition contractor may undertake the operation.

Roofs may be removed in a variety of ways. Demolition personnel may use sledge hammers, pry bars, axes, adzes, shovels, ice chippers and roof-cutting saws to remove the roofing materials. They also may use tractor-mounted rotating blade cutters, power plows and power slicers. Use of roof-cutting saws, either hand-or power-driven, or tractor-mounted, are of great concern, since they can generate asbestos-containing dust from roofing materials. The sawing of Category I nonfriable ACM roofing material and the debris created by the sawing are regulated by the asbestos NESHAP. Since power plows and power slicers do not sand, grind, cut or abrade the roofing materials, their use and resultant debris are not subject to the asbestos NESHAP regulation. Category I nonfriable ACM roofing squares that have been decontaminated may be disposed of with other demolition debris or at an asbestos landfill.

Demolition with Roofing Materials in Place

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM and are allowed to remain in place during demolition.

DEMOLITION PRACTICES BY METHOD

Methods of destruction employed at demolition sites include the use of heavy machines, explosions/implosions, and hand methods. All of these methods cause Category II nonfriable ACM to become RACM; however, Category I nonfriable ACM (packings, gaskets, resilient floor coverings, asphaltic roofing materials, mastic) that is not in poor condition and not friable prior to the demolition operation may be subjected to most of these techniques without becoming RACM. The following describes various demolition techniques and their effects on nonfriable materials. All Category I nonfriable ACM referenced is presumed not to be in poor condition and not friable prior to the demolition operation.

HEAVY MACHINERY RAZING OPERATIONS

For the purposes of this document heavy machinery (or equipment) includes large motorized vehicles such as bulldozers with rakes, top loaders, backhoes, skid loaders/bobcats, hydraulic excavators, and other similar machinery used for transporting, moving, or dislodging of materials at a demolition site. Cranes equipped with wrecking balls, clamshells, or buckets are also considered heavy machinery.

Heavy machinery is used at demolition sites for both razing operations and post-demolition activities. "Razing", the process which reduces a building's structural skeleton to rubble, typically occurs after the building's interior has been gutted by hand.

Use of heavy machinery during the razing process causes Category II nonfriable ACM, but not Category I nonfriable ACM to become RACM. Use of such equipment during subsequent operations, such as waste consolidation, however, is a major concern which will be addressed in Section 5 of this document.

Bulldozers and Similar Machinery

Included in this grouping of heavy machinery are all types of bulldozers, backhoes, top loaders and skid loaders/bobcats commonly used in conjunction with hand methods to raze buildings. Bulldozers move on tracks whereas backhoes, top loaders, and skid loaders operate on rubber tires.

Only if a great deal of working space exists at a site, and a precisely-controlled demolition is not necessary, can bulldozers such as 977 loaders and D-9s be used to demolish a building. These bulldozers are typically equipped with giant rakes designed to ram building walls and move debris.

977's or D-9s may be used to undermine a building, but hydraulic excavators (discussed later in this section) are usually used for this purpose. Backhoes and top loaders are mainly used for moving debris and tearing off sections of walls and other building components.

Skid loaders, machines commonly used to load skids or pallets onto trucks, may be specially equipped with a type of ram for use during demolitions and are usually of the "bobcat" type.

The razing of a building using the heavy machinery described above causes Category II nonfriable ACM, but not Category I nonfriable ACM to become RACM.

Hydraulic Excavators

Hydraulic excavators, such as EL-300s, 225s or 215s, resemble a combination bulldozer/backhoe and operate on tracks. They are easier to use and provide greater control during demolition than the bulldozers described above. However, since they too raze buildings by ramming and tearing, like bulldozers, their use in congested areas is limited. Nearby buildings must be protected from the falling debris; plywood may be applied over the windows and rubber tires may be used to cushion and prevent damage to walls of adjacent structures.

On rare occasions, hydraulic excavators may be used to topple one-or two-story buildings by means of an undermining process. The strategy is to undermine the building while controlling the manner and direction in which it falls. The demolition project manager (who in many jurisdictions must be licensed by the city or state)

must determine where undermining is necessary so that a building falls in the desired manner and direction. The walls are typically undermined at a building's base, but this is not always the case as building designs may dictate otherwise. Safety and cleanup considerations are also taken into account in determining the methods to be used.

Since the toppling of a building constitutes a safety hazard and generates enormous quantities of dust, many cities and towns will not approve of this method of demolition. Where the practice is allowed, the contractor may be required to keep the structure wet during demolition. Hydrant permits may be required and, because of the wetting restrictions, such demolitions may be impossible to accomplish during the winter.

Hydraulic excavators are also used to conduct cleanup activities such as excavation, fill burial, material reduction, and material load-out. The use of hydraulic excavators during the razing process causes Category II nonfriable ACM, but not Category I nonfriable ACM to become RACM.

ONSITE WASTE HANDLING PROCEDURES

INTRODUCTION

At the present time it is not demolition operations and ordinary cleanup activities but the post-demolition activities involving waste consolidation and recycling of Category I and II materials which are of greater concern. If such activities subject either Category I or II nonfriable ACM to sanding, grinding, cutting or abrading, the materials become RACM and are then subject to the provisions of the asbestos NESHAP.

In general, since cleanup activities such as loading waste debris onto trucks for disposal do not subject nonfriable materials to sanding, grinding, cutting or abrading, such materials are not considered asbestos-containing waste materials and are not regulated by the asbestos NESHAP.

However, waste consolidation efforts which involve the use of jack hammers or other mechanical devices such as grinders to break up asbestos-containing concrete or other materials covered or coated with Category I nonfriable ACM, are subject to the regulation.

In addition, operations such as waste recycling which sand, grind, cut, or abrade Category I or II nonfriable ACM are subject to the asbestos NESHAP. When these types of activities are performed, Category I and II nonfriable ACM become RACM.

The following details the post-demolition activities of waste consolidation (segregation and reduction), waste load-out and onsite waste disposal and their effects on nonfriable ACM.

Vehicular Traffic Impact

Rubber-tired Vehicles

If nonfriable ACM is intentionally run over by rubber-tired vehicles as a means of segregation, it does not automatically become RACM but must be examined for damage. If it has become extensively damaged, i.e., it was sanded, ground, cut or abraded during segregation, it becomes RACM and is subject to the NESHAP regulation.

Tracked Vehicles

Although tractor treads present greater risks of causing extensive damage to nonfriable ACM, limiting their use at demolition sites is not considered practical. Intentionally running over nonfriable ACM with tractor treads as a means of segregation is considered grinding; material thus treated becomes RACM.

OFFSITE WASTE HANDLING PROCEDURES

The issues discussed in this section include landfills, recycling centers, conversion facilities, and renovation activities. Since EPA has taken a "cradle to grave" approach regarding the disposition of ACM, responsibility for the ultimate fate of Category I ACM rests with all individuals involved in handling the material.

Landfills

Category I and II ACM that has become RACM must be disposed of in a landfill that operates in accordance with 61.150 and 61.154, or in an EPA-approved conversion facility described in 61.155 of the asbestos NESHAP.

Category I and II nonfriable ACM which has not become RACM during demolition may be disposed of in a landfill that normally accepts construction debris. However, if Category I or II nonfriable ACM is sanded, ground, cut or abraded before it is buried at the landfill, it is subject to the asbestos NESHAP.

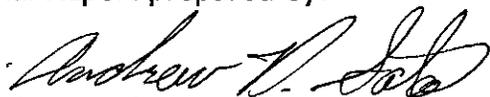
Recycling Centers

At the present time, EPA does not allow either Category I or II nonfriable demolition debris to go to any facility (e.g., a cement recycling facility) that will sand, grind, cut or abrade it or otherwise turn it into RACM waste. Recycling facilities which cause non-RACM waste to become RACM waste are subject to the provisions of the asbestos NESHAP (See Appendix I).

DISCLAIMER

This manual was prepared by TRC Environmental Corporation for the Stationary Source Compliance Division of the U.S. Environmental Protection Agency. It has been completed in accordance with EPA Contract No. 68D20059, Work Assignment No. IA2-19. This document is intended for information purposes ONLY, and may not in any way be interpreted to alter or replace the coverage or requirements of the asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M. Any mention of product names does not constitute endorsement by the U.S. Environmental Protection Agency.

Final Report prepared by:



Andrew D. Sato
Licensed Asbestos Consultant
Nevada License No. IJPM0048
California Asbestos Certification (CAC) #97-2286

Attachments: 1) Personnel Air Sample Laboratory Analytical Results
2) Photographic Documentation of Asbestos Abatement Locations

LLCO SERVICES, INC.

Diablo Avenue • Hayward, CA • 94545
786-9751 • FAX (510) 786-9625

VT: Mineral Count

ASBESTOS AIR MONITORING LOG

□ D-PHASE (PCM) □ TEM AHERA □ TEM YAMATE II

KELCO JOB #: *SP0512-05*

LAB LOGIN #: *051212A*

FIELD TECH:

NOTE: Lande Fill

LAB ANALYST: *[Signature]*

ROTAMETER NUMBER:

CALIBRATION DATE:

MFA = Walton Beckett = 0.00785 sq. mm.

ECA: 25mm = 385 sq. mm.

Fiber Concentration (Fibers/CC):

$\frac{[(FB/FL) \cdot (BFB/BFL)] \cdot (ECA)}{(1000) \cdot (FR) \cdot (MFA) \cdot (T)}$

95%LCL = MC + (1.645)(CV)(S)

Flow Rate (Liter / Min):

F. R. Measured • $\sqrt{\frac{(P_{cal}) \cdot (T_{act})}{(P_{act}) \cdot (T_{cal})}}$

Signature	Date	Time
<i>[Signature]</i>	<i>10-11-05</i>	
<i>[Signature]</i>	<i>12-12-05</i>	<i>7:00</i>

Pump Number	IWA OWA	Sample Location	Work Activity	Respirator	Worker & SS #	Sample Date	Time On		Flow On	Minutes	Fibers	Fields	Fibers /CC	TWA 8 Hr TWA
							Time Off	Flow Off						
01	(IWA) OWA	Land Fill 1st pile	Pick up trash Pigs	NONE HF FF SAR PAPR	Allen Lames 4161	10/14	7:14	2.0	9.8	2	100	0.056		
02	(IWA) OWA	Land Fill 2nd pile	Pick up trash Pigs	NONE HF FF SAR PAPR	Allen Lames 4162	10/14	7:53	2.1	4.8	7	100	0.006		
03	(IWA) OWA	Land Fill 4th pile	Pick up trash Pigs	NONE HF FF SAR PAPR	Archie Williams 1031	10/14	18:02	2.0	17.8	3	100	0.007		
	IWA OWA	Blank		NONE HF FF SAR PAPR			3:00	2.0	3.6					
	IWA OWA			NONE HF FF SAR PAPR			Not Rec'd							
	IWA OWA			NONE HF FF SAR PAPR										
	IWA OWA			NONE HF FF SAR PAPR										
	IWA OWA			NONE HF FF SAR PAPR										

White Copy: Field Job File

Yellow Copy: Lab File

LLCO SERVICES, INC.

Jablo Avenue • Hayward, CA • 94545
786-9751 • FAX (510) 786-9625

Mineral Country

ASBESTOS AIR MONITORING LOG

PHASE (PCM) TEM AHERA TEM YAMATE II

KELCO JOB #: *R Nos 12-05*

LAB LOGIN #: *051210A*

FIELD TECH:

LAB ANALYST: *MJP*

Signature	Date	Time
<i>[Signature]</i>	<i>12-12-05</i>	<i>7:00</i>
<i>[Signature]</i>	<i>12-12-05</i>	<i>7:00</i>

ROTAMETER NUMBER:

CALIBRATION DATE:

MFA = Walton Beckett = 0.00785 sq. mm.

ECA: 25mm = 385 sq. mm.

Fiber Concentration (Fibers/CC):

$[(FB/FL) \cdot (BFB/BFL)] / (ECA)$

$(1000) \cdot (FR) / (MFA) \cdot (T)$

95%UCL = MC + (1.645)(CV)(S)

Flow Rate (Liter / Min.):

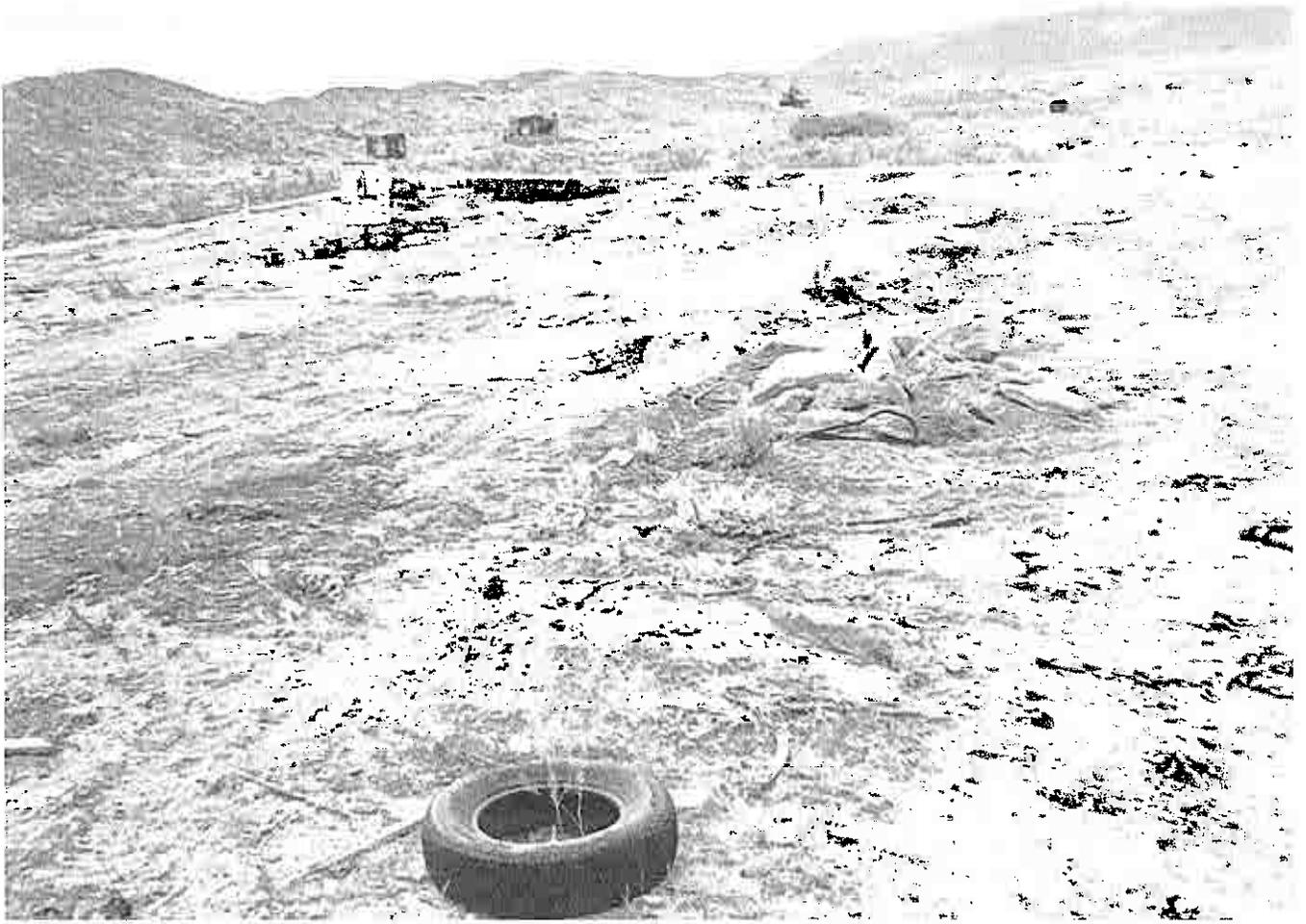
F. R. Measured • $\sqrt{\left(\frac{P_{cal}}{P_{act}}\right) \cdot \left(\frac{T_{act}}{T_{cal}}\right)}$

Pump Number	TWA OWA	Sample Location	Work Activity	Respirator	Worker & SS #	Sample Date	Time On		Flow On		Minutes Volume(L)	Fibers	Fields	Fibers /CC	TWA 8 Hr TWA
							Time Off	Time On	Flow Off	Flow On					
02	<i>(TWA)</i>	<i>Land Fill</i>	<i>Check code out P.C.</i>	NONE HF FF SAR PAPR	<i>Alisa Gomez</i>	<i>10/17</i>	<i>07:10</i>	<i>12:00</i>	<i>2.0</i>	<i>2.0</i>	<i>744</i>	<i>6</i>	<i>100</i>	<i>006</i>	
	OWA			NONE HF FF SAR PAPR	<i>11-0</i>						<i>488</i>				
	TWA		<i>Blank</i>	NONE HF FF SAR PAPR							<i>Not Read</i>				
	OWA			NONE HF FF SAR PAPR											
	TWA			NONE HF FF SAR PAPR											
	OWA			NONE HF FF SAR PAPR											
	TWA			NONE HF FF SAR PAPR											
	OWA			NONE HF FF SAR PAPR											
	TWA			NONE HF FF SAR PAPR											
	OWA			NONE HF FF SAR PAPR											

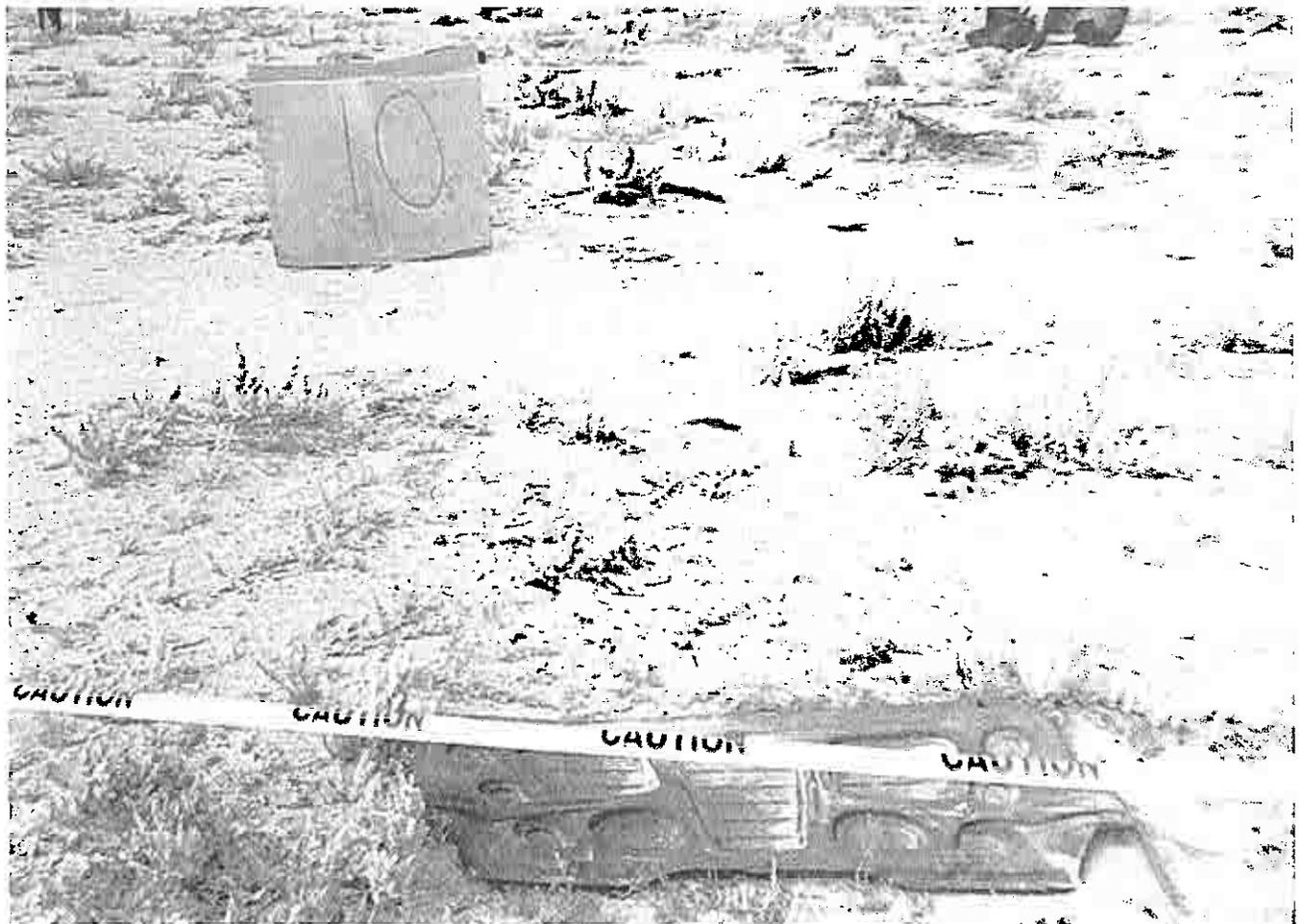
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Yellow Copy: Lab File

10/96











Attachment C

Diversified Demolition Company Report and
Hawthorne Utilities Waste Disposal Invoice

**DIVERSIFIED
CONCRETE
CUTTING**

**Asbestos Abatement
Closeout Package**

Former Hawthorne Landfill

December 30, 2005

Technical Specifications

SUPPLEMENTAL TECHNICAL SPECIFICATIONS
AND
SITE SPECIFIC CONDITIONS
FOR
LIMITED ASBESTOS ABATEMENT
SPECIFICALLY INTENDED AS AN ACM SOURCE
REDUCTION PROJECT AND LIMITED TO IDENTIFIABLE
EXPOSED ASBESTOS CEMENT TILES, DEBRIS AND TSI IN
DESIGNATED PILES ON THE SURFACE OF THE GROUND
AT THE
HAWTHORNE FORMER DUMP,
HAWTHORNE, NEVADA

Prepared by:

Mr. Andrew D. Sato



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Prepared for:

Kleinfelder, Inc.
4875 Longley Lane, Suite 100
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(775) 689-7800
fax (775) 689-7810
Mr. Josh Fortmann
Project Manager

September 27, 2005

The following Supplemental Technical Specifications and site specific requirements apply to the Asbestos Abatement Contractor for the Limited Asbestos Abatement of identified piles of Asbestos Containing Material (ACM) on the surface of the ground at the former dump site. The designated piles will be abated from the surface of the ground and only at the designated locations where piles or gross ACM are identified. The abatement is only intended as an ACM source reduction project. Abatement of the piles of ACM is to reduce the potential for airborne asbestos contamination as additional deterioration of ACM on the surface of the ground occurs due to degradation by vehicle traffic, weather, ultra violet light and wind erosion. The requirements included in this document are supplemental and not intended to diminish any requirements of the Asbestos Abatement Specifications provided by Kleinfelder, Inc. The scope of work included in the project is to abate piles of ACM in the forms of Asbestos Cement (AC) shingles & debris, corrugated AC scraps and Thermal System Insulation (TSI) in specific piles which are on the surface of the ground. There is ACM debris on the surface of the ground at the former Dump site and some adjacent properties which is not included in the scope of this project because this project is specifically intended to abate the concentrated piles of ACM on the surface.

1. Scope of Work for the Former Dump

The Abatement Contractor shall pick up and bag all visible ACM, ACM debris and visibly contaminated soil in identified piles from the surface of the ground to a perimeter of approximately 10 feet from the boundary of each of the piles.

The Abatement Contractor shall remove the designated ACM as listed in the following table. The quantities in the table are defined by the number of piles as estimated by the owner's representative. The quantity will be verified during the Pre-Bid Job-Walk if feasible. Once all Abatement Contractors present are in agreement regarding the quantities, the table can be verified or changed while on-site.

SCOPE OF ASBESTOS SOURCE REDUCTION WORK AT THE HAWTHORNE FORMER DUMP			
ASBESTOS-CONTAINING MATERIAL TO BE REMOVED	ESTIMATED QUANTITY	UNIT PRICE	ITEM TOTAL
Identified Piles of Asbestos Cement (AC) (Transite) Siding Shingles, Corrugated AC Scraps and TSI on ground surface.	Quantity: 10 ea. @ 5 CY	\$ 1650 ²⁰ ea.	\$ 16,500 ⁰⁰

Sanitary Facility

The Abatement Contractor shall place portable sanitary toilet facilities at the project site for the contractor's personnel and for the owner's representatives.

3. Access/Security

At all times during the abatement project, the Abatement Contractor shall provide adequate security measures to prevent any unauthorized entry into the abatement work areas. During abatement work shifts, the entrance to work areas shall never be left unattended. At all times when abatement work is not being performed, the Abatement Contractor shall ensure that all gates to the Former Dump site remain locked.

The Abatement Contractor shall also provide/install a sufficient number of chains, locks, or other applicable measures to secure the waste storage and/or dump containers.

4. Schedule

All abatement work must be performed according to a Schedule to be submitted by the Abatement Contractor with their bid proposal. The Abatement Contractor shall perform the work according to the schedule (for both daily shift times and total days allowed) set by Weinfelder.

5. Work Area Isolation and Limited Asbestos Abatement

- A. The Abatement Contractor shall isolate each of the abatement work areas where a pile of ACM has been located from other areas of the Former Dump Site with barriers of barricades or temporary posts and Asbestos Barrier tape.
- B. The Abatement Contractor shall install and maintain a worker decontamination station at the entrance to the regulated areas prior to the start of this work.
- C. The worker decontamination station shall have wet cloths, water buckets or bottles for cleaning of tools and washing off of abatement personnel exiting the work area.
- D. After each area where a pile has been identified has been demarcated with asbestos barrier tape, abatement personnel will don respirators and Tyvek, Or Approved Equal (OAE) disposable suits to perform removal of the gross ACM piles and debris.
- E. The Abatement Contractor shall pick up and bag, all visible suspect and known ACM debris from the ground at each identified pile to approximately 10 feet from the source pile.
- F. The intact AC shall be double bagged or double wrapped in 6mil. polyethylene sheeting for disposal as Non-Friable asbestos containing waste.
- G. The AC debris and visibly contaminated soil shall be double bagged or double wrapped in 6mil. polyethylene sheeting for disposal as Friable asbestos containing waste.

- I. TSI identified shall be double wrapped in 6mil. polyethylene sheeting for disposal as Friable asbestos containing waste.
- H. During removal of ACM piles the contractor shall utilize hand methods or heavy equipment to pick up and dispose of the ACM waste.
- G. If heavy equipment is used for handling of the ACM, it must all be treated as Friable regarding handling and disposal.
- F. All abatement personnel including equipment operators entering the regulated areas must be in appropriate Personal Protective Equipment including Suits and Respirators.
- E. All work tasks including equipment operation during the abatement require personnel exposure monitoring for asbestos.

D. Verification of Site Conditions

The Abatement Contractor shall verify the ACM quantities for materials listed in the preceding table prior to bid submission. The Abatement Contractor shall also verify physical site conditions, access to water, electricity, and any other site conditions that could affect the abatement work.

C. Storage Trailer

The Abatement Contractor may place a lockable storage trailer at the site for the contractor's materials and equipment used for the abatement work. The Abatement Contractor shall be responsible for the security of the storage trailer (and for all the contents of the trailer) for the duration of the abatement project. All abatement associated storage trailers and/or dumpsters shall be placed in a location that is acceptable to the Owner and does not interfere with day-to-day operations of the Owner.

B. Water

Water shall be supplied by the Owner up to the capacity of a water truck or a fire hydrant adjacent to the Former Dump site.

A. Bulletin Board

The Abatement Contractor shall place the project bulletin board near the worker decontamination station. Items required to be posted on this board include copies of notifications, all Material Safety Data Sheets (MSDS) for materials used on the project, emergency phone numbers (hospital, fire department, police, and the Abatement Contractor's personnel), proof of the Abatement Contractor's license, proof of the required insurance, and any other postings required by OSHA or SIIS (for worker's compensation).

10. Safety Compliance

The Abatement Contractor shall comply with all Health and Safety Plan requirements. A fire extinguisher shall be placed in each work area. The Abatement Contractor shall also hold bi-weekly safety meetings for all site workers.

11. Protective Clothing

All abatement personnel must wear full-body Tyvek, Or Approved Equal (OAE) protective suits with head and foot coverings, hard hats and eye protection if necessary to perform all the abatement work tasks.

12. Respiratory Protection

Appropriate respirators equipped with High Efficiency Particulate Air (HEPA)-filter cartridges shall be used for ACM removal. All abatement personnel must wear half-face, Negative Pressure or full face Powered Air Purifying Respirators with HEPA filters in work areas starting when removal of ACM begins or whenever inside the regulated areas.

13. Decontamination Procedures

All abatement personnel are required to practice proper decontamination procedures.

14. Warning Signage

The Abatement Contractor shall post asbestos warning signs at all entrances and/or approaches to the work areas prior to the start of removal activities in each work area.

15. Determination of Friability

The on-site Abatement Supervisor and a representative of Sato Environmental Consultants, Inc will make the determination of friable versus non-friable condition of materials being abated whether the materials are presently friable or rendered friable during abatement.

16. Detail Cleaning

All traces of debris and residue must be removed from all surfaces on the ground in the designated work areas.

17. Waste Segregation

All the waste generated by the abatement activities must be separated into the following categories for proper labeling and containerization.

- A. Friable Asbestos-Containing Material.
- B. Non-friable Asbestos-Containing Material.

3. Waste Containerization

- A. Asbestos-Containing Materials: The Abatement Contractor shall place friable asbestos-containing material waste in double layer 6-mil disposal bags.
- B. Asbestos-containing non-friable waste also must be double bagged or wrapped.

9. Waste Labeling/Disposal

The Abatement Contractor is responsible for the labeling and disposal of all the following materials.

- A. Friable Asbestos-Containing Material: Each piece of bagged or wrapped friable waste must be marked with an OSHA asbestos danger label and a appropriate DOT labels.
- B. Non-friable Asbestos-Containing Material: Each piece of bagged or wrapped non-friable waste must be marked with an OSHA Asbestos Danger Label.
- C. All pieces of bagged or wrapped ACM waste must be labeled with the generator name and the site location (Mineral County, Hawthorne Former Dump, and pertinent address).

10. Dump Containers

Waste containers of waste must be stored in dump containers for each the appropriate type of waste. All the waste transport containers must be lined with 6-mil polyethylene sheeting and must remain locked at all times except during waste loading when waste is being loaded into the containers. If the contractor opts to use heavy equipment for loading and burrito wrapping for containing the waste, the dumpster must be double lined with a minimum of 6 mil. poly and one water hose stream must be applied to the equipment bucket while loading and two water hose streams must be applied to the equipment bucket while dumping into the dumpster. Sufficient wetting of the ACM waste using water hoses must be applied to prevent visible emissions.

11. Perimeter Air Sampling

Airborne fiber levels outside the work areas shall be monitored by the Abatement Contractor during abatement work. The area monitoring shall be performed approximately 50 feet downwind from the regulated area. If elevated fiber levels are measured, the Abatement Contractor must stop activities in a work area and change work practices until perimeter sampling shows that fiber levels are no longer elevated.

22. Encapsulation

The ground where asbestos-containing materials have been removed shall be sprayed with an encapsulant after visual inspection has passed.

Waste

APPLICATION FOR WASTE RELEASE PERMIT

PERMIT NUMBER _____

X NAME OF WASTE GENERATOR (Owner) MINERAL COUNTY

X Contact Person DON ORNDORFF Phone 775-945-3377

X Address of Waste Generator P.O. Box 1450 1st AND A STREET

X City/State HAWTHORNE, NEVADA Zip 89415

X WASTE ORIGIN ADDRESS (Location) FORMER HAWTHORNE LANDFILL

IDENTITY OF WASTE (Give Detailed Description) None Fiberglass Insulation and Floor tile

PHYSICAL STATE OF WASTE (Solid, Liquid, Etc.) Solid

TYPE OF CONTAINMENT (Barrel, Bag, Loose, Etc.) Bag

QUANTITY OF WASTE (Gallons or Cubic Yards) 3cy PER LOAD

NUMBER OF LOADS TO LANDFILL (Frequency) 4

HAULING COMPANY Diversified Demolition Company

**ATTACHED M.S.D.S. TCLP TPH

** Applicable M.S.D.S.s and the appropriate lab analysis showing that the material is a non-hazardous waste must be included with the application.

AUTHORIZATION: I, the waste generator, authorize the above waste hauling company to act as my agent for the purpose of coordinating waste disposal at the Lockwood Regional Landfill.

SIGNATURES: (Please sign and print name)

X Waste Generator/Owner _____

X Designated Agent _____

Health Department Use Only

<input type="checkbox"/> Standard Waste	<input type="checkbox"/> Solidify	<input type="checkbox"/> Immediate Burial
<input type="checkbox"/> Demo	<input type="checkbox"/> TPH Treatment	<input type="checkbox"/> Other

Hazardous Waste Review	<input type="checkbox"/> Required	<input type="checkbox"/> Not Required
Date Forwarded	Date Reviewed	Reviewed By

Permit Expiration Date _____ Permit Fee \$ _____

Number of Disposal Slips _____ Slip Fee \$ _____

Approved By _____ Total \$ _____

Date Approved _____ Date Paid _____

Notes:

Sign In/Out

DIVERSIFIED DEMOLITION DIV 7

PAGE#

JOB SITE SIGN-IN

PJ# 17-050511	PJ NAME: Land Fill	PJ LOCATION: _____
DATE: 10-2-08 10-13-08	SUPERVISOR: Santiago Ramos	

DAY	NAME	SS.#	Activity	IN	OUT	IN	OUT
1	(SUP) Santiago Ramos			700	1130	1200	330
2	Armando Villanueva			700			
3	Armando Villanueva			700			
4	V. C. Lopez			700			
5	Allen Ramos			700			
6							
7							
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Visitors and comments	Representing	IN	OUT

DIVERSIFIED DEMOLITION DIV 7

PAGE#

JOB SITE SIGN-IN

PJ# 07-09-054	PJ NAME: <i>Land Fill</i>	PJ LOCATION: _____
DATE: 10-14-05	SUPERVISOR: <i>Santiago</i>	
DAY:		

DAY	NAME	SS.#	Activity	IN	OUT	IN	OUT
1	(SUP) Santiago Lemus			7:02	11:30	12:00	3:00
2	Armando Villanov			7:01	11:25	12:00	3:02
3	Armando Villanov			7:03	11:26	11:59	3:01
4	Victor Fajardo			7:06	11:29	12:00	3:00
5	Pilon Lemus			7:10	11:30	12:00	3:00
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Visitors and comments	Representing	IN	OUT

DIVERSIFIED DEMOLITION DIV 7

PAGE#

JOB SITE SIGN-IN

PJ# 07-05-054	PJ NAME: Land Fill	PJ LOCATION: -----
DATE: 10-18-05	SUPERVISOR: Santiago Hernandez	

DAY:	NAME	SS.#	Activity	IN	OUT	IN	OUT
1 (SUP)	Santiago Hernandez			700	1130	1200	330
2	Victor Fobardo			700	1130	1200	330
3	Armando Villanueva			700	1130	1200	330
4	Arnelia Villanueva			700	1130	1200	330
5	Allan Lemus			700	1130	1200	330
6							
7							
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Visitors and comments	Representing	IN	OUT

Certifications

Job # 176

Supervisor

HAZARDOUS ENVIRONMENTAL EDUCATION
SERVICES



Santiago Llamas

NAME
1100 S Verado Blvd

ADDRESS

Reno NV 89512

CITY STATE ZIP
Renresher Asbestos Contractor/Super

TRAINING - COURSE

10/20/04

10/20/05

TRAINING DATE
HEES-22333

EXPIRATION DATE
CA-022-04 552-79-6157

CERTIFICATE NUMBER

CA-DOSH #

SE #

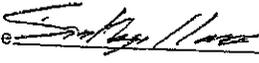
STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
Occupational Safety and Health Enforcement Section
Asbestos Control Program

Certifies That SANTIAGO LLAMAS
is Licensed As ASBESTOS SUPERVISOR

License No.S 5321

Expiration Date 10/23/05

Signature Of Licensee



(NSPO Rev. 3/02)

(O) 2579 

Non-Injury Activity Status Report for Diversified concrete

PATIENT:

Name: Santiago Llamas

Social Security # 552-79-6152

Pulmonary function test evaluation

Able to perform essential functions
No medical restrictions

PROVIDER/FACILITY: ARC MedCenters, LLC- Sparks

Environmental Safety Training

30139 Industrial PRWY, STE E, Hayward, CA 94544 Phone: (510) 475-7571 Fax (510) 475-7572

Approval # CA-044-04

Certifies That

Aurelio Villanueva

SSN: 601-60-3551



Has Successfully Completed Section 206 of the
Asbestos Contractor Supervisor Refresher Course
in Accordance with the (TSCA) Title II. (AHERA)

Certificate Number:
ACSR-020520

Course Date: April-4-05 Exp. April-4-06

[Signature]
Training Director: Roger Lowe

FROM :

FAX NO. (510)351-3595

Apr 01 2005 09:42 AM

Service Date: 04/01/2005

Concentra Occupational Med Ctrs-CA
2607 Grand Street San Leandro, CA 94577
Phone (510) 351-3535 Fax (510) 351-3525
Medical Surveillance - Asbestos

Patient: Villeneuve, Aurelia R.
SSN: 60-3551
DOB: 06/21/1962
Gender: M
Marital Status: M
Address: 3005 36th Ave. # 227
OAKLAND, CA 94601
Home Phone: (510) 536-3011
Work Phone: (510) 562-6121 Ext.:

Job Title:
Employer: Laborers Trust Fund
Address: 220 Campus Lane
BUISUN CITY, CA 94555
Job Contact: Ruben Barbe
Role:
Phone: (510) 569-4781 Ext.:
Fax: (510) 569-4763
Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 04/01/2005 in accordance with: 29 CFR 1926.1101, 40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101 (M)(2)(iii)(C).
- NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any):

[Signature]
Provider Signature

4/1/05
Date

QUALITATIVE FIT TESTING AND ISSUANCE OF RESPIRATOR

Name of Person Tested: Arvello Williams

Make, Model, and Size of Respirator: Full Face North

Type of Cartridge
() HEPA () Charcoal Filter () Combination () Other _____

- Description of Test
1. Respirator is donned and straps adjusted.
 2. Visual check is made to ensure tight fit around facial contours.
 3. Exhalation/inhalation and simulated mouth movement tests are performed.
 4. Irritant smoke is used to check fit. Proper fit is obtained if subject is not made to cough by smoke plume.

Pass Fail _____

I acknowledge that I have been issued the above type of respirator after successfully completing the qualitative fit testing. I agree to maintain and field check the respirator as instructed. Upon my termination of employment, I further agree to return the respirator in good condition, excluding normal wear and tear. In addition, should I lose the respirator I agree to pay for the replacement respirator.

Person Tested: Arvello Williams Date: 6-10-05
Signature

Test Operator: Scott Walker Date: 6-10-05

License No: 55321

- Original Issuance Temporary Issuance
- 6 Month Re-issuance Lost Respirator

QUALITATIVE FIT TESTING AND ISSUANCE OF RESPIRATOR

Name of Person Tested: Arvelio Villanueva

Make, Model, and Size of Respirator: Half Face, North

Type of Cartridge

HEPA Charcoal Filter Combination Other _____

Description of Test

1. Respirator is donned and straps adjusted.
2. Visual check is made to ensure tight fit around facial contours.
3. Exhalation/inhalation and simulated mouth movement tests are performed.
4. Irritant smoke is used to check fit. Proper fit is obtained if subject is not made to cough by smoke plume.

Pass Fail

I acknowledge that I have been issued the above type of respirator after successfully completing the qualitative fit testing. I agree to maintain and field check the respirator as instructed. Upon my termination of employment, I further agree to return the respirator in good condition, excluding normal wear and tear. In addition, should I lose the respirator I agree to pay for the replacement respirator.

Person Tested: Arvelio Villanueva
Signature

Date: 6-10-05

Test Operator: Samuel Alvarado

Date: 6-10-05

License No: 55331

- | | |
|-------------------------------------------------------|---------------------------------------------|
| <input checked="" type="checkbox"/> Original Issuance | <input type="checkbox"/> Temporary Issuance |
| <input type="checkbox"/> 6 Month Re-issuance | <input type="checkbox"/> Lost Respirator |

HAZARDOUS ENVIRONMENTAL EDUCATION
SERVICES

Allen Lemus
 NAME
 320 Moran
 ADDRESS
 Reno NV 89502
 CITY STATE ZIP
 Refresher Asbestos Worker Spanish
 TRAINING COURSE
 10/30/04 10/30/05
 TRAINING DATE EXPIRATION DATE
 HEES-22340 CA-022-12 680-16-6352
 CERTIFICATE NUMBER CA-DOSH# SSN#

NEVADA
DRIVER LICENSE
 LIC# 2600401709 EXPIRES 01-01-2008
 CLASS ENDORSE RESTRICTIONS
 C
 BIRTH DATE SEX HEIGHT WEIGHT EYES HAIR
 01-01-1974 M 5'09" 170 BLK BLK
 LEMUS-CEBALLOS, ALLAN ARMANDO
 320 MORAN ST
 RENO, NV 89502

STATE OF NEVADA
 DEPARTMENT OF BUSINESS AND INDUSTRY
 DIVISION OF INDUSTRIAL RELATIONS
 Occupational Safety and Health Enforcement Section
 Asbestos Control Program

Certifies That **ALLEN LEMUS**
 is Licensed As **ASBESTOS ABATEMENT WORKER**

License No. **A4366** Expiration Date **10/30/05**

Signature Of Licensee *Allen*

(NSPO Rev 3/02) (O) 2579

SOCIAL SECURITY
 SOCIAL SECURITY
 680-16-6352
 THIS NUMBER HAS BEEN ESTABLISHED FOR
ALLAN ARMANDO LEMUS CEBALLOS
 ADMINISTRATION
 SIGNATURE

7

PULMONARY FUNCTION TESTS

(TO BE COMPLETED BY EMPLOYEE)

NAME Allan Lemus S.S.# 680-16-6352 DATE 04-13-05
 AGE 31 HEIGHT 5-9 WEIGHT 170
 RACE ESPAÑO GENDER _____

THE FOLLOWING INFORMATION IS TO BE DOCUMENTED PRIOR TO THE PULMONARY FUNCTION TEST. IF ANY OF THE ANSWERS ARE "YES" THEN THE TEST MUST BE RESCHEDULED.

	YES	NO
1. WITHIN THE LAST ONE HOUR HAVE YOU SMOKED A CIGARETTE OR USED AN AEROSOLIZED BRONCHODILATOR? (INHALER)		X
2. WITHIN THE PAST TWO HOURS, HAVE YOU EATEN A HEAVY MEAL?	X	
3. ARE YOU UNDER THE CARE OF A PHYSICIAN FOR ANY ILLNESS AT THIS TIME?		X
4. IN THE PAST THREE WEEKS, HAVE YOU HAD ANY RESPIRATORY INFECTION SUCH AS THE FLU, PNEUMONIA, BRONCHITIS OR SEVERE COLD?		X
5. DO YOU HAVE ANY ALLERGY SYMPTOMS NOW OR IN THE PAST THREE WEEKS?		X
6. ARE YOU PRESENTLY TAKING ANY MEDICATION? IF YES, WHAT? _____		X

SPIROMETRY CHECK LIST

MAKE Vitalograph MODEL 9120 SERIAL # _____
 DATE OF CALIBRATION 02/28/04 ROOM TEMPERATURE 74
 EMPLOYEE POSITION DURING TEST sitting EMPLOYEE EFFORT good

REQUIRE AT LEAST 3 ACCEPTABLE TRACINGS PERFORMED FREE FROM COUGHS, EARLY TERMINATION OR NO PLATEAU, AND VARIABLE EFFORT
REQUIRE 2 BEST EFFORT TRACINGS WITHIN 5%

SIGNATURE OF EXAMINER [Signature] DATE 4/13/05
 PRINT NAME [Signature] PHONE # _____

ATTACH RESULTS OF THE PFT TO THIS FORM

Vitalograph 2120

ID: <Screen> Test Date: 04/13/2005 Time: 17:03:23
Age: 31 Height: 68 ins Sex: M Ethnic Origin: Hispanic
Unit Id: 07491 Cal. Check Date: 12/28/2004

Test Quality Information:

Rep: FVC: 0.1 FEV1: 0.2

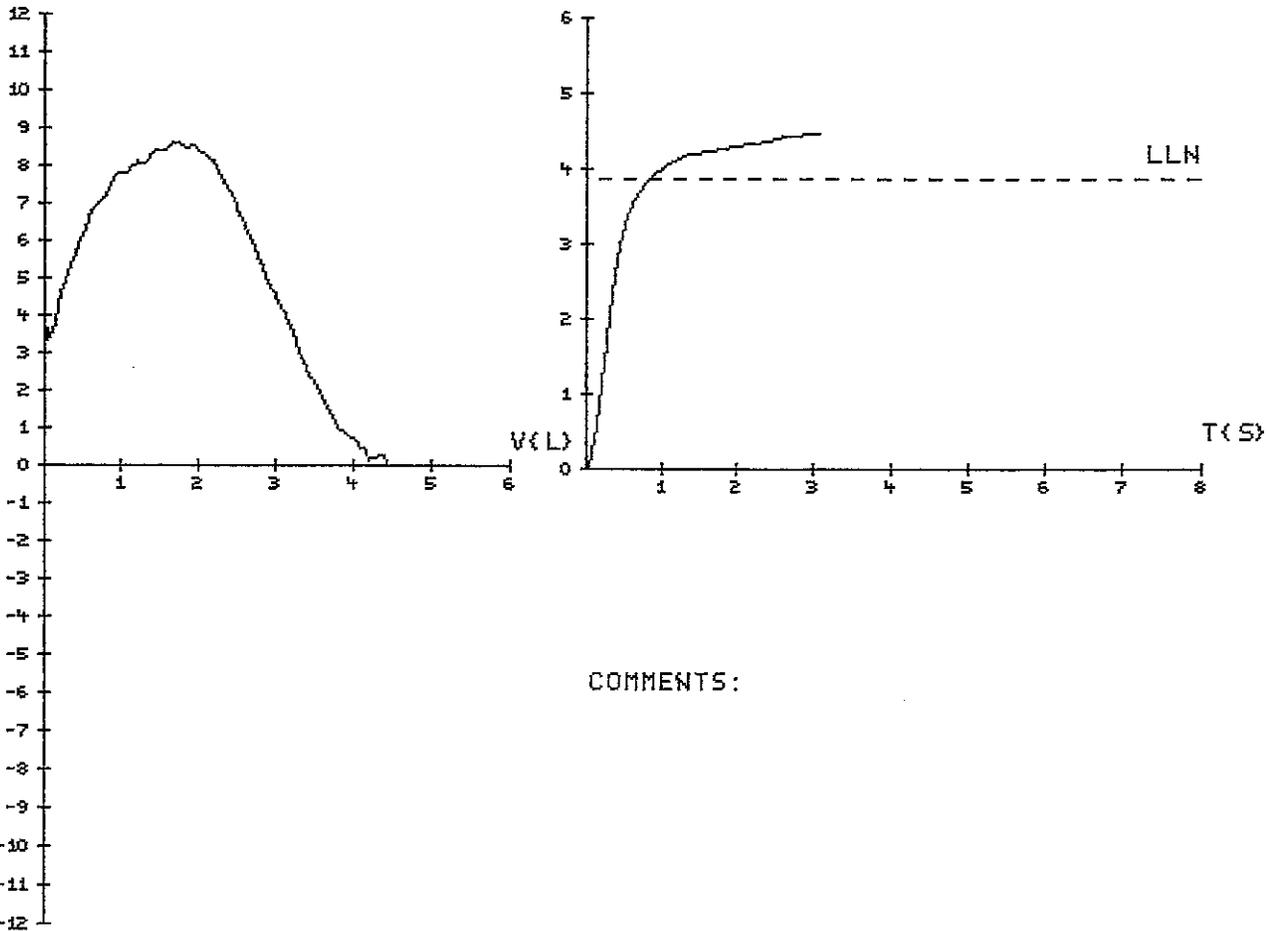
No. of Tests: 3

ATS Best Values at B.T.P.S - Morris Normal Values (S/W 74310/2.04)

Index	Pred	Meas	%
FVC	5.06	4.50	89
FEV1	4.01	4.06	101
FEV1%	79	90	114
PEF	551	515	93
FEF25-75%	4.32	6.23	144

F(L/S)

V(L)



COMMENTS:

Interpretation of Test Results:
Normal ventilatory function.

Signature: _____

QUALITATIVE FIT TESTING AND ISSUANCE OF RESPIRATOR

Name of Person Tested: Alan Jones

Make, Model, and Size of Respirator: 3-m PAPP mark Large

Type of Cartridge

HEPA Charcoal Filter Combination Other _____

Description of Test

1. Respirator is donned and straps adjusted.
2. Visual check is made to ensure tight fit around facial contours.
3. Exhalation/inhalation and simulated mouth movement tests are performed.
4. Irritant smoke is used to check fit. Proper fit is obtained if subject is not made to cough by smoke plume.

Pass Fail

I acknowledge that I have been issued the above type of respirator after successfully completing the qualitative fit testing. I agree to maintain and field check the respirator as instructed. Upon my termination of employment, I further agree to return the respirator in good condition, excluding normal wear and tear. In addition, should I lose the respirator I agree to pay for the replacement respirator.

Person Tested:  Date: _____
Signature

Test Operator: Santiago Llano Date: 5-19-05

License No: 55321

- | | |
|-------------------------------------------------------|---------------------------------------------|
| <input checked="" type="checkbox"/> Original Issuance | <input type="checkbox"/> Temporary Issuance |
| <input type="checkbox"/> 6 Month Re-issuance | <input type="checkbox"/> Lost Respirator |

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
Occupational Safety and Health Administration
Asbestos Control Program

Certifies That **ARMANDO VILLANUEVA**
Is Licensed As **ASBESTOS ABATEMENT WORKER**

License No. **A6762** Expiration Date **6/25/06**

Signature Of Licensee *Armando Villanueva*

(NRS 602.010) (0) 2379

Laborers' Training and Retraining
Trust Fund for Northern California

* * * - * * - 2318



Armando Villanueva 1001 Westside Drive San Ramon CA 94583
4539R Phone: (925) 828-2513 Fax: (925) 828-6142

Concentra Occupational Med Ctrs-CA
2587 Merced Street, San Leandro, CA 94577
Phone: (510) 351-2553 Fax: (510) 351-2553
Medical Surveillance - Asbestos

Service Date: 06/24/2005

Patient: Villanueva, Armando Z. Job Title: _____
SSN: 619-68-2318 Employer: Laborers Trust Func _____
DOB: 12/30/1973 Address: 220 Campus Lane _____
Gender: M _____ SUISUN CITY, CA 94585 _____
Marital Status: M _____
Address: 2710 Sunset Avenue Job Contact: Ruben Barba _____
_____ Role: _____
_____ Phone: (510) 569-4761 Ext.: _____
_____ Fax: (510) 569-4763 _____
Home Phone: (510) 438-0172 _____
Work Phone: _____ Ext.: _____ Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 06/24/2005 in accordance with: _____ 29 CFR 1926.1101.
_____ 40 CFR 763.121.

The following was performed:

- Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- Review of information from previous medical examinations if available.
- A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- NOTE. According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

Provider Signature

Peter Swann, MD
DEA NO. BS2960462
LIC NO. G69886

Date

QUALITATIVE FIT TESTING AND ISSUANCE OF RESPIRATOR

Name of Person Tested: Arcangelo Villanosa

Make, Model, and Size of Respirator: NORWEL 910 MASE LARGE

Type of Cartridge
 HEPA Charcoal Filter Combination Other _____

Description of Test

- Respirator is donned and straps adjusted.
- Visual check is made to ensure tight fit around facial contours.
- Exhalation/inhalation and simulated mouth movement tests are performed.
- Irritant smoke is used to check fit. Proper fit is obtained if subject is not made to cough by smoke plume.

Pass Fail

I acknowledge that I have been issued the above type of respirator after successfully completing the qualitative fit testing. I agree to maintain and field check the respirator as instructed. Upon my termination of employment, I further agree to return the respirator in good condition, excluding normal wear and tear. In addition, should I lose the respirator I agree to pay for the replacement respirator.

Person Tested: Arcangelo Villanosa
Signature

Date: 8-9-05

Test Operator: Cory D. ...

Date: 8-9-05

License No 0000

- Original Issuance
- Temporary Issuance
- 6 Month Re-issuance
- Lost Respirator

**Laborers' Training and Retraining
Trust Fund for Northern California**

*** - ** - 3128



Victor Fajardo
4499R



1001 Westside Drive San Ramon, CA 94583
Phone: (925) 828-2513 Fax: (925) 828-6142

Laborers' Training and Retraining Trust Fund for Northern California

Asbestos Worker Re-Certification : Spanish

Victor Fajardo

Certificate Number: 4499R

THIS CERTIFICATE INDICATES SUCCESSFUL COMPLETION OF TRAINING
MANDATED BY THE EPA FOR AHERA WORKER RE-CERTIFICATION IN
ASBESTOS UNDER (TSCA) ACT TITLE II Provider: CA-012-12

Start Date: 5/7/2005

Completion Date: 5/7/2005

Expiration Date: 5/7/2006

Victor Macias
Victor Macias, Training Director

Date: 5/7/2005

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
Occupational Safety and Health Enforcement Section
Asbestos Control Program

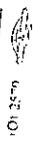
Certifies That **VICTOR FAJARDO**
is Licensed As **ASBESTOS ABATEMENT WORKER**

License No. A 6725

Expiration Date 5/7/06

Signature Of Licensee Victor Fajardo

INSPO Rev. 3/02



HEALTHSOUTH

Respiratory Compliance Letter for Asbestos Physical

Date of Examination: 6-8-05
Name of Employer: Victor Fajardo
Name of Employee: _____
Social Security Number: 649-22-3198
Date of Birth: 6-12-74

In accordance with Federal OSHA 29 CFR 1910. "Respiratory Protection" and 29 CF 1926. 1101 "Asbestos", persons should not be assigned to tasks requiring the use of respirators unless it has been determined that they are physically able to perform the work while using the required respiratory equipment.

- (A) This employee does not have any detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, tremolite, anthophyllite, or actinolite.
- (B) There is no limitation on the employee or upon the use of Personal protective equipment such as clothing or respirators.
- (C) The employee has been informed by the physician of the results of the medical examination and of any medical conditions that may result from exposure to asbestos, tremolite, anthophyllite, or a
- (D) The employee has been informed by the physician of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos.

ROBERT WAGNER, M.D.

Name of physician (Print)

6-8-05
Date

Robert Wagner
Signature of physician

QUALITATIVE FIT TESTING AND ISSUANCE OF RESPIRATOR

Name of Person Tested: Michael Antonio

Make, Model, and Size of Respirator _____

Type of Cartridge

() HEPA () Charcoal Filter () Combination () Other _____

Description of Test

1. Respirator is donned and straps adjusted.
2. Visual check is made to ensure tight fit around facial contours.
3. Exhalation/inhalation and simulated mouth movement tests are performed.
4. Irritant smoke is used to check fit. Proper fit is obtained if subject is not made to cough by smoke plume.

Pass _____ Fail _____

I acknowledge that I have been issued the above type of respirator after successfully completing the qualitative fit testing. I agree to maintain and field check the respirator as instructed. Upon my termination of employment, I further agree to return the respirator in good condition, excluding normal wear and tear. In addition, should I lose the respirator I agree to pay for the replacement respirator.

Person Tested: _____ Date: _____
Signature

Test Operator: [Signature] Date: [Date]

License No: C-0032

- | | |
|----------------------------------------------|---------------------------------------------|
| <input type="checkbox"/> Original Issuance | <input type="checkbox"/> Temporary Issuance |
| <input type="checkbox"/> 6 Month Re-issuance | <input type="checkbox"/> Lost Respirator |

Air Samples

K E L L C O

PHASE CONTRAST MICROSCOPY
NIOSH 7400A (4th Edition, #2, 8/15/94)

CLIENT: Diversified Demolition Company
 59 Coney Island Drive
 Sparks, NV 89431

DATE: 12/12/05
 KELLCO JOB#: RN0512-05
 KELLCO LOGIN#: 0512120

TEL#/FAX#: (775) 331-1411 / (775) 331-1572

PAGE#: 1 of 2
 ANALYST: M. Peterson

CLIENT REF#

ROTAMETER#:
 MONITORED BY:
 CERTIFICATION#:

FOREMAN:

LOCATION: Mineral Country
 Land Fill

RECEIVED DATE: 12/12/05
 ANALYZED DATE: 12/12/05

MEDIUM: 25MM FILTER MEMBRANE
 STANDARD: 0.1 FIBERS/CC KELLCO CV: 0.208

(Analyzed in Reno Office)

KELLCO ID#	LOCATION AND ACTIVITY	WORKER AND SS#	MASK TYPE	DATE	TIME (MIN)	FLOW (LPM)	VOL. (Liter)	LAB COUNTS		FIBERS /CC	L.O.Q.*	95% ONE SIDED UCL	REMARKS
								FIBERS	FIELDS				
	Blank			10/14/05									Not analyzed
	Blank			10/12/05									Not analyzed
0512120-1	01, IWA, STEEL, land fill, 1st pile, Pickup Transite	A. Lamas	HF	10/14/05	28	2.00	56.00	2.0	100	< 0.048	0.688	0.082	
		4161											
0512120-2	02, IWA, Personal, land fill, 2nd pile, Pickup Transite	A. Lamas	HF	10/14/05	267	2.10	560.70	7.0	100	0.006	0.069	0.040	TWA=<0.010; 8hr TWA=<0.006
		4161											
0512120-3	01, IWA, Personal, land fill, 4th pile, Pickup Transite	A. Villanueva		10/14/05	178	2.00	356.00	3.0	100	< 0.008	0.108	0.042	TWA=<0.008; 8hr TWA=<0.003
		1231											

* (U.O.L.) 95% one sided upper confidence limit for a single sample: [NIOSH 7400 method EQ: FIBERS/CC + (1.645*CV*STANDARD)]
 CV derived from the KELLCO CV program and the standard is 0.1 FIBERS/CC unless requested otherwise.

*(L.O.D.) Limit of detection for this method: 5.5 FIBERS/100 FIELDS per NIOSH 7400A.

*(L.O.Q.) Smallest fiber concentration that can be calculated for this sample with statistical reliability based on 76.5 FIBERS/100 FIELDS (NIOSH 7400 method). NIOSH has determined that the statistically optimal filter loading is between 100 and 1800 FIBERS/SQ. MM (or 76.5 FIBERS per 100 FIELDS and 205 FIBERS per 20 FIELDS.) Samples outside this range have an increased probability of variability and bias.

Samples are blank corrected. The 8 hour TWA assumes no exposure for the unsampled time of the 8 hour shift. Actual exposure values are based on the data supplied by the client.

[Signature]
 HEIDI FRUHLINGER, M.A.
 LABORATORY DIRECTOR

MASK HF Half Face Dual Cartridge
 TYPES: FF Full Face Dual Cartridge
 PAPR Powered Air Purifying Respirator
 SAR Supplied Air Respirator
 (blank) Not reported to the lab

This report must not be reproduced
 except in full with the approval of
 KELLCO Services, Inc. The test
 report relates only to the item(s)
 tested.

KELLCO

PHASE CONTRAST MICROSCOPY
 NIOSH 7400A (4th Edition, #2, 8/15/94)

CLIENT: Diversified Demolition Company
 59 Coney Island Drive
 Sparks, NV 89431

DATE: 12/12/05
 KELLCO JOB#: RND512-05
 KELLCO LOGIN#: 0512120

TEL#/FAX#: (775) 331-1411 / (775) 331-1572

PAGE#: 2 of 2
 ANALYST: M. Peterson

CLIENT REF#

ROTAMETER#:
 MONITORED BY:
 CERTIFICATION#:

FOREMAN:

LOCATION: Mineral Country
 Land Fill

RECEIVED DATE: 12/12/05
 ANALYZED DATE: 12/12/05

MEDIUM: 25MM FILTER MEMBRANE
 STANDARD: 0.1 FIBERS/CC KELLCO CV: 0.208

(Analyzed in Reno Office)

KELLCO ID#	LOCATION AND ACTIVITY	WORKER AND SS#	MASK TYPE	DATE	TIME (MIN)	FLOW (LPM)	VOL. (Liter)	LAB COUNTS		FIBERS /CC	L.O.Q.*	95% ONE-SIDED UCL	REMARKS
								FIBERS	FIELDS				
0512120-4	02, IWA, Personal, land fill.		HP	10/12/05	244	2.00	488.00	6.0	100	0.006	0.079	0.040	TWA=0.006; 8hr TWA=0.003

* (U.C.L.) 95% one sided upper confidence limit for a single sample: [NIOSH 7400 method EQ: FIBERS/CC + (1.645*CV*STANDARD)]
 CV derived from the KELLCO CV program and the standard is 0.1 FIBERS/CC unless requested otherwise.
 * (L.O.D.) Limit of detection for this method: 5.5 FIBERS/100 FIELDS per NIOSH 7400A.
 * (L.O.Q.) Smallest fiber concentration that can be calculated for this sample with statistical reliability based on 78.5 FIBERS/100 FIELDS (NIOSH 7400 method). NIOSH has determined that the statistically optimal filter loading is between 100 and 1300 FIBERS/SQ. MM (or 78.5 FIBERS per 100 FIELDS and 205 FIBERS per 20 FIELDS.) Samples outside this range have an increased probability of variability and bias.
 Samples are blank corrected. The 8 hour TWA assumes no exposure for the unsampled time of the 8 hour shift. Actual exposure values are based on the data supplied by the client.

Heidi Fruhlinger
 HEIDI FRUHLINGER, M.A.
 LABORATORY DIRECTOR

MASK TYPES: HF Half Face Dual Cartridge
 FF Full Face Dual Cartridge
 PAPR Powered Air Purifying Respirator
 SAR Supplied Air Respirator
 (blank) Not reported to the lab

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Notifications

PLEASE MARK APPROPRIATE BOX

Low Project
Revised, Project # _____
Revision Changes _____

Emergency Notification

Nevada Department of Business and Industry
Division of Industrial Relations
Occupational Safety and Health Enforcement Section

Southern District Office
1301 N. Green Valley Pkwy
Suite 200
Henderson, Nevada 89014
Phone: 702-486-9020
FAX: 702-990-0358

Northern District Office
4600 Kietzke Lane
Building F, Suite 153
Reno, Nevada 89502
Phone: 775-688-1380
FAX: 775-688-1378

Check can you please receive the 10 Days.
ASBESTOS ABATEMENT PROJECT NOTIFICATION FORM

Asbestos abatement contractor intending to engage in an asbestos abatement project in Nevada is required to submit this Notification Form and fees, which must be received by mail at the Division 10 days before beginning any on-site asbestos abatement project. **FAXES WILL NOT BE ACCEPTED FOR ORIGINAL NOTIFICATIONS.** (For original notification, please send only page 1 of Notification Form).

GENERAL INFORMATION

Name of Contractor: Diversified

Mailing Address: 59 Cow Island

City: Sparks State: NV ZIP: 89431

Contact Name: Colt Bustin Phone No: 331-1411

Name of the Building Owner: Mineral County

Owner's Address: PO Box 1450

City: Hawthorne State: NV ZIP: 89415

Description of the Building/Structure:

Building/Structure Address: Former Hawthorne Landfill

City: Hawthorne State: NV ZIP: _____

Building Age (Years): 30+ Usage of Bldg.: Landfill no longer in use.

Building Size: Total Floor Space (Square Feet): 0 No. of Floors: 0

DESCRIPTION OF PROPOSED ASBESTOS PROJECT

Project Type: Clean up transit from Ground Surface as an ACM source reduction Project.

Project Schedule: Start Date: 10-06-05 Finish Date: 10-14-05

Amount of ACM Affected: 5000 sq. Yds. 5 SQ. FT. _____ LN. FT.

Description of ACM Type and Nature: Transit House siding 5000 sq. Yds. piles

Former Landfill

Containment Measures and Work Practices: (Be Specific) Contain area, wet Methods used.

Shap on bag w/ 26mi layers.

PROJECT NOTIFICATION FEES: (NOTE: No project notification form is complete until the project notification fee is received by the Division. The maximum project notification fee required to be paid in any year by a building owner is \$2,000.) Send check or money order made payable to Division of Industrial Relations.

- \$100 For each project greater than 10 sq. ft. or 25 ln. ft., and less than 160 sq. ft. or 260 ln. ft.
- \$400 For each project greater than 260 ln. ft. or 160 sq. ft. and less than 2600 ln. ft. or 1600 sq. ft.
- \$1,000 For each project greater than 2600 linear feet or 1600 square feet.

IC FINAL CLEARANCE

Project Monitor: (Name of Consultant who will provide the final clearance for the project).
Name and Nevada License No. of each Consultant on the project:

<u>Name</u>	<u>OSHES License No.</u>
<u>Andrew Sato</u>	<u>IPM 0048</u>

Name of Firm: Sato Environmental Phone No. 324-4044

Will the Project Monitor also provide employee exposure monitoring for the project?
Yes No

Will the Project Monitor perform on-site asbestos analysis?
Yes No

Project Designer: (Name of Consultant who will perform Project Design activities.)

<u>Name</u>	<u>OSHES License No.</u>
<u>[Signature]</u>	

Name of Firm: _____ Phone No: _____

RTD WASTE DISPOSAL

Name and Address of Hauler/Waste Transporter:
Name: Diversified License No: _____

Address: 59 Coway Island

Name and Location of approved asbestos waste disposal site(s):
Operator: W. Hawthorne Landfill

Location: _____

ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

RATOR PROJECT #	POSTMARK	DATE RECEIVED	NOTIFICATION #
TYPE OF NOTIFICATION (O - ORIGINAL) (C - CANCELLED) (R - REVISION - WRITE REVISION #?) C			

FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR, AND OTHER OPERATOR)

OWNER NAME: Mineral County

ADDRESS: PO Box 1450

CITY: Hawthorne County: Mineral State: NV ZIP: 89415

CONTACT: Don Orndorff Telephone: 775-312-0340

ASBESTOS REMOVAL CONTRACTOR: Diversified

ADDRESS: 59 Conroy Island

CITY: Sparks State: NV Zip: 89431

CONTACT: Conroy Bustum Telephone: 331-1411 Title: PM

DEMOLITION CONTRACTOR: /

ADDRESS: /

CITY: / State: / ZIP: /

CONTACT: / Telephone: / Title: /

TYPE OF OPERATION: (D-DEMO O-ORDERED DEMO R-RENOVATION E-EMERGENCY RENOVATION):

BESTOS PRESENT? (YES / NO) Yes List Type of Asbestos Material (s) to be Removed: Transit Exterior House siding at landfill Piles on Ground

FACILITY DESCRIPTION (INCLUDE BUILDING NAME, NUMBER AND FLOOR OR ROOM NUMBER)

BUILDING NAME: Former Hawthorne Landfill

ADDRESS: END of Conroy View Rd.

CITY: Hawthorne County: Mineral State: NV ZIP: 89415

LOCATION: Old Landfill

BUILDING SIZE: / Number of floors: / Age in years: 30+

CURRENT USE: Vacant PRIOR USE: Landfill

PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:

APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING:	RACM TO BE REMOVED	NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED		NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED	
		CAT I	CAT II	CAT I	CAT II
REGULATED ACM TO BE REMOVED					
REGORY I ACM NOT REMOVED					
REGORY II ACM NOT REMOVED					
ACM: (Linear Feet) <u>TSI w/metal jacket</u>					
<u>Ground Surface</u>	<u>50 Luff</u>				
CE AREA (Square Feet) <u>Transit Siding</u>					
<u>Piles on Ground 5CYs ea. 10 piles</u>	<u>50 CYs</u>				
ACM OFF FACILITY COMPONENT (Cubic Feet)	<u>50 cubic ft</u>				

SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: _____ Complete: _____

SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: 10-6-05 Complete: 10-14-05

Weekdays Work Hours: 7:00^{am} - 4:00^{pm} Weekend Work Hours: /

OPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHODS TO BE USED: Designated ACM Pile
excavated from ground surface as an ACM source reduction project.

DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS
DURING DEMOLITION AND RENOVATION SITE. Barricade each area. Remove using wet methods
before abatement work.

TRANSPORTER #1

Diversified

59 Court Y Island

parks

State: NY

Zip: 99431

Person: Carl Bustrom

Telephone: 331-1411

TRANSPORTER #2

/

State:

Zip:

Person:

Telephone:

DISPOSAL SITE

New Hawthorne Landfill

Hawthorne

State: NY

Zip: 99431

775-945-3606

Steve Gustafson

IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Title:

Order (MM/DD/YY):

Date ordered to begin (MM/DD/YY):

EMERGENCY RENOVATIONS:

Hour of emergency (MM/DD/YY - HH:MM):

Reason of Sudden, Unexpected Event:

Description of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial

DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR
HIGHLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED, OR REDUCED TO POWDER:

STATE THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL
BE AVAILABLE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN
OBTAINED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.

Carl Bustrom

P/M

Carl Bustrom

9-30-05

Print Name: Owner/Operator

(Title)

(Signature of Owner/Operator)

(Date)

STATE THAT THE ABOVE INFORMATION IS CORRECT.

Carl Bustrom

Diversified

C0030

3/15/06

Print Name: Owner/Operator

(Affiliation)

(AHERA Certificate Number)

(Expiration Date)

STATE THAT THE ABOVE INFORMATION IS CORRECT.

Carl Bustrom

P/M

Carl Bustrom

9-30-05

Print Name: Owner/Operator

(Title)

(Signature of Owner/Operator)

(Date)

THIS COUNTY DOES NOT DISCRIMINATE IN THE ACTIVITIES AND/OR SERVICES WHICH IT PROVIDES. IF YOU HAVE ANY

DIVERSIFIED
DEMOLITION
COMPANY

DIVISION 7 ENVIRONMENTAL
59 CONEY ISLAND DR SPARKS NV 89431
PH (775) 331-1411 FAX (775) 358-6523

FACSIMILE TRANSMITTAL SHEET

TO: Bob Trotter FROM: Tony Valentine
COMPANY: EPA Reg 9. DATE: _____
FAX NUMBER: 1.415.947.3579 TOTAL NO. OF PAGES INCLUDING COVER: 3
PHONE NUMBER: _____ RE: Hawthorne old Landfill

URGENT FOR REVIEW BID QUOTE PLEASE REPLY FYI

NOTES/COMMENTS:

Bob. can you please wait the 10 day to
start on the 6th of oct. 05.

Thanks. Tony V.

Field Notes

Hawthorne Utilities Waste Disposal Invoice

Hawthorne Utilities

395 "E" Street
P.O. Box 1448
Hawthorne, NV 89415-1448

Invoice

Date	Invoice #
10/26/2005	1237

Bill To
Brownsfield Project-Labor c/o Don Orndorff P.O. Box 1450 Hawthorne, NV 89415-1450

Terms

Quantity	Item Code	Description	Price Each	Amount
5	Asbestos Mat...	Landfill Fees For 10-7-05 8:30 AM	25.00	125.00
5	Asbestos Mat...	Landfill Fees For 10-11-05 8:45 AM	25.00	125.00
5	Asbestos Mat...	Landfill Fees For 10-13-05 11:54 AM	25.00	125.00
5	Asbestos Mat...	Landfill Fees For 10-13-05 2:55 PM	25.00	125.00
5	Asbestos Mat...	Landfill Fees For 10-14-05 8:30 AM	25.00	125.00
5	Asbestos-Fri...	Landfill Fees for 10-16-05 12:30 PM	50.00	250.00
5	Asbestos-Fri...	Landfill Fees for 10-16-05 3:35 PM	50.00	250.00
5	Asbestos-Fri...	Landfill Fees for 10-18-05 8:40 AM	50.00	250.00
1	Asbestos-Fri...	Landfill Fees for 10-20-06 11:27 AM	50.00	50.00
			Total	\$1,425.00