

# Excavation of Beta Ditch at NERT-TIMET Property Line

Nevada Environmental Response Trust Site, Henderson, Nevada

Prepared for: Nevada Environmental Response Trust

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Project Number: 21-34800E



# **Excavation of Beta Ditch at NERT-TIMET Property Line**

# Nevada Environmental Response Trust (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (Trust) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of the Trust. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane	XXVII, Inc., not individually, but solely in its representative capacity as the Nevada
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/	or and a
Signature:	not individually, but solely in his
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as the Nevad	a Environmental Response Trust Trustee
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Date:	2151114

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# Nevada Environmental Response Trust (Former Tronox LLC Site) Henderson, Nevada

# Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

John M. Pekala, PG Senior Manager Date

Certified Environmental Manager ENVIRON International Corporation CEM Certificate Number: 2347

CEM Expiration Date: September 20, 2014

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# **Acronyms and Abbreviations**

ACM Asbestos-Containing Material

AP&CC American Potash and Chemical Company

Apex Apex Regional Landfill

ASTM American Society for Testing and Materials

BCL Basic Comparison Level

bgs below ground surface

BMI Black Mountain Industrial

CCDAQ Clark County Department of Air Quality

CCDDS Clark County Department of Development Services

Cesare Cesare, Inc. (Geotechnical Consultant)

COPCs Constituents of Potential Concern

cy cubic yards

DVSR Data Validation Summary Report

ECA Excavation Control Area

Envirocon, Inc.

ENVIRON ENVIRON International Corporation

fibers/cc fibers per cubic centimeter

ft feet

GPS Global Positioning System

HASP Health and Safety Plan

HCB Hexachlorobenzene

KMCC Kerr-McGee Chemical Corporation

LDC Laboratory Data Consultants, Inc.

LoSo Logistical Solutions, Inc.

msl mean sea level

NESHAP National Emission Standard for Hazardous Air Pollutants

Northgate Environmental Management, Inc.

NDEP Nevada Division of Environmental Protection

OCPs Organochlorine Pesticides

OSHA Occupational Safety and Health Administration

PCBs Polychlorinated Biphenyls

PEL Personal Exposure Limit

PID Photoionization Detector

PLM Polarized Light Microscopy

PPE Personal Protective Equipment

ppm parts per million

RAW Removal Action Work Plan

RCI RCI Engineering

RI/FS Remedial Investigation/Feasibility Study

RZ Remediation Zone

SMP Site Management Plan

SRG Soil Remediation Goal

SVOCs Semivolatile Organic Compounds

TEQ Toxicity equivalent

the Trust Nevada Environmental Response Trust

TIMET Titanium Metals Corp.

Tronox LLC

μg/m3 micrograms per cubic meter

USEPA United States Environmental Protection Agency

VOCs Volatile Organic Compounds

WECCO Western Electrochemical Company

# 1 Introduction

In accordance with the Interim Consent Agreement for the Nevada Environmental Response Trust (NERT or the Trust) Site (the Site), ENVIRON International Corporation (ENVIRON) submits this report on the excavation of the eastern end of the former Beta Ditch at the Trust-Titanium Metals Corp. (TIMET) property line to the Nevada Division of Environmental Protection (NDEP), on behalf of the Trust.

Tronox LLC (Tronox) formerly owned and operated the Site. Tronox currently maintains manufacturing operations on a portion of the Site leased from the Trust. In conjunction with the settlement of Tronox's bankruptcy proceeding, the Trust took title to the Site on February 14, 2011. Pursuant to the terms of the Interim Consent Agreement, the Trust is required to complete the excavation activities previously commenced at the Site. The majority of soil excavation activities at the Site were performed between August 2010 and November 2011; however, the eastern portion of the former Beta Ditch could not be excavated at that time due to access constraints. In consultation with NDEP, it was agreed to leave the soils in the eastern portion of the Beta Ditch in place until such time when the neighboring TIMET facility performed excavation of the former Beta Ditch on their property, east of the Trust property. With the completion of the activities described in this report, the Trust has completed the excavation activities required under the Interim Consent Agreement.

This report summarizes the excavation of the former Beta Ditch on Trust property, at the Trust-TIMET property line, which took place in October 2013, concurrent with TIMET's excavation on their property to the east. The planned excavation was the subject of ENVIRON's *Revised Work Plan, Planned Excavation of Beta Ditch at NERT-TIMET Property Line* (the "Work Plan"), dated June 27, 2013 (ENVIRON 2013). Specifically, this report describes:

- the general approach taken for conducting excavation work, instituting Site controls, and addressing wells, utilities, and other Site infrastructure:
- the air monitoring program in place during excavation work:
- the management of waste material;
- the removal of materials within designed polygons, asbestos-containing material (ACM), and discolored soil; and
- the Site restoration process.

# 1.1 Site Background

The Site is located approximately 13 miles southeast of the city of Las Vegas in an unincorporated area of Clark County, Nevada, and lies in Sections 12 and 13 of Township 22 S, Range 62 E (see Figure 1). The approximately 346-acre Site is located within the Black Mountain Industrial (BMI) complex, which has been the site of industrial operations since 1942 when it was first operated by the U.S. government as a magnesium plant for World War II operations. Later, a part of the BMI Complex that would ultimately become the Site was leased by Western Electrochemical Company (WECCO). WECCO produced manganese dioxide, sodium chlorate, sodium perchlorate, and other perchlorates. WECCO also produced ammonium perchlorate (a powerful oxidizer) for the Navy during the early 1950s using a plant

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that was constructed on the Site by the Navy. WECCO merged with American Potash and Chemical Company (AP&CC) in 1956, and continued production of ammonium perchlorate for the Navy. In 1967, Kerr-McGee Chemical Corporation (KMCC) purchased AP&CC. KMCC began production of boron chemicals in the early 1970s. The production processes included elemental boron, boron trichloride (a colorless gas used as a reagent in organic synthesis), and boron tribromide (a colorless fuming liquid used in a variety of applications). The production of boron tribromide was discontinued in 1994, and the production of sodium chlorate and ammonium perchlorate was discontinued in 1997 and 1998, respectively. Perchlorate was reclaimed at the Site using existing equipment until early 2002.

In 2006, Tronox took ownership of the facility formerly operated by KMCC on the Site and operated it to produce electrolytic manganese dioxide for use in the manufacture of alkaline batteries; elemental boron for use as a component of automotive airbag igniters; and boron trichloride for use in the pharmaceutical and semiconductor industries and in the manufacture of high-strength boron fibers for products that include sporting equipment and aircraft parts. In 2009, Tronox filed for Chapter 11 bankruptcy. The Trust took title to the Site on February 14, 2011, as a result of the settlement of Tronox's bankruptcy proceeding. Tronox currently has a long-term lease for approximately 114 acres of the Site, where it continues its manufacturing operations.

On December 14, 2009, NDEP issued to Tronox a Finding of Alleged Violation and Order requiring Tronox to comply with the obligations pertaining to the Henderson facility under the various Consent Agreements previously issued for the Site, and setting forth a specified schedule for such compliance (the "2009 Division Order") (NDEP, 2009). At the conclusion of a February 22, 2010 meeting, NDEP and Tronox discussed the conceptual scope and implementation of a soil remediation program needed to comply with the 2009 Division Order. A detailed scope of work, consistent with previous discussions with NDEP, was presented by Northgate Environmental Management, Inc. (Northgate) in the May 2010 Removal Action Work Plan for Phase B Soil Remediation of Remediation Zones RZ-B through RZ-E, Tronox LLC, Henderson, Nevada, revised May 28, 2010 (the "RAW") (Northgate, 2010c).

# 1.2 Site Description and Land Use

#### 1.2.1 Physical Characteristics

The Site is a 346-acre property (Figure 1) that is generally rectangular in shape with the long side in the north-south direction. Elevations across the Site range from 1,677 to 1,873 feet (ft) above mean sea level (msl). The land surface slopes toward the north at a gradient of approximately 0.023 ft per foot (ft/ft). The developed portions of the Site have been modified by grading to accommodate plant facility buildings, surface impoundments, access roads, a former landfill, and other Site features.

The excavation area is situated on the Site, along the property line with the adjacent TIMET facility to the east. The land surface slopes downward to the east and north in the vicinity of the excavation area.

### 1.2.2 Current Land Use

Tronox currently operates processes on a portion of the Site (the "Facility") to produce manganese dioxide, boron trichloride, elemental boron, and batteries. The Facility includes numerous buildings, sheds, labs, ponds, tanks, and pipelines related to the production processes. However, there are no facility buildings in the excavation area.

# 1.3 Scope of Work

Tronox performed two soil sampling programs (known as Phase A and B Source Investigations) that were completed in 2006 and 2008, respectively (ENSR-AECOM, 2006 and 2008). These investigations identified a number of constituents in excess of state Basic Comparison Levels (BCLs) criteria within the upper 10 ft of soil, including dioxins/furans (quantified as a toxicity equivilency quotient, or TEQ), hexachlorobenzene (HCB), other semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), asbestos, metals, organochlorine pesticides (OCPs), and perchlorate. The 2009 Division Order directed Tronox to remove all soil containing constituents of potential concern (COPCs) in excess of worker BCLs (or modified risk-based site-specific goals agreed upon by NDEP) from the Site, reducing the human health risks associated with contaminated soil. In the May 2010 RAW, Northgate laid out a strategy for excavating chemically impacted soil within the upper 10-foot below ground surface (bgs) horizon in contaminated portions of the Site, to the extent such soils were accessible (Northgate, 2010). These remediation activities were commenced by Tronox in August 2010 and were completed by the Trust in November 2011, as detailed in the Revised Interim Soil Removal Action Completion Report (ENVIRON 2012c).

During the 2011 remediation program, Excavation Control Areas (ECAs) were established, within which remediation could not be completed due to access constraints. ECA E3 was established at the east end of the former Beta Ditch, where structures and equipment prevented the removal of soil from polygon RZ-E-16B and a small portion of polygon RZ-E-16A (ENVIRON 2012a and 2012b). The excavation of soils in ECA E3 is the subject of this report.

The scope of work of the ECA E3 remediation activities described herein included the following tasks:

- Relocation of the site perimeter fence
- Removal of the existing structures and equipment
- Excavation of the remaining polygon soil that was included in the ECA
- Excavation of additional discolored soil known to be impacted by asbestos
- · Backfilling and compaction of the area
- Restoration of the perimeter roadway
- · Replacement of the perimeter fence

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# 2 Soil Remediation Program

# 2.1 General Remediation Approach

The east end of the former Beta Ditch was previously characterized during the Phase A and B sampling, after which remediation area polygons were established by Northgate in 2010. At the east end of the Beta Ditch, polygon RZ-E-16B, as well as a small portion of polygon RZ-E-16A, was inaccessible during the 2011 excavation activities due to an existing sandbag diversion structure, drainage culverts, the perimeter fence line, the underground Pittman Bypass pipeline (a former wastewater conveyance line), and an elevated walkway structure. As a result, ECA E3 was established. In addition, as described in the Interim Soil Removal Action Completion Report (ENVIRON 2012c), the excavation of the accessible portion of RZ-E-16A (adjacent to the southwest of ECA E3) revealed a layer of asbestos-impacted soils extending along the path of the former Beta Ditch through ECA E3 at a depth of approximately five to seven feet bgs. In addition to the previously characterized remediation polygon soil, this asbestos-impacted layer was targeted for removal during this excavation.

The general remediation strategy for the east end of the former Beta Ditch consisted of removal of the equipment and structures that had previously prevented access to the area, excavation of remaining soils within the designated remediation polygons, removal of the previously identified asbestos-impacted soil layer, and observations for any additional discolored soil (to be sampled and removed if above site remediation goals [SRGs]).

The soil remediation program was implemented by the Trust and managed by ENVIRON. ENVIRON retained Envirocon, Inc. (Envirocon) as the soil remediation contractor and Logistical Solutions (LoSo) as the asbestos remediation observation contractor. Walker Specialty Construction, Inc. (Walker) was subcontracted by Envirocon to perform excavation of asbestos-impacted soils. Envirocon's work included soil removal, asbestos remediation, transportation, waste disposal, grading, and site restoration.

#### 2.1.1 Excavation Design

The east end of the former Beta Ditch excavation was designed to remove the remaining soil within the boundaries of the original excavation polygons RZ-E-16A and RZ-E-16B, which were established based on the results of soil samples from soil boring SSAL8-02 and other nearby soil borings. The original polygon RZ-E-16A was an elongated area along the former Beta Ditch with a depth of seven feet below the ground surface at the time of polygon design (only a small corner of this polygon was inaccessible due to the overlying sandbag dam structure). The original polygon RZ-E-16B consisted of a triangular area with a depth of five feet below the ground surface at the time. Northgate's November 2010 Excavation Plan for Phase B Soil Remediation of RZ-E, Addendum to the Removal Action Work Plan, which describes the approach to soil remediation including the excavation polygons, was approved by NDEP in a letter dated November 29, 2010.

To design the excavation, ENVIRON overlaid the polygon boundaries onto the topographic surface that remained after the 2011 soil remediation. The design depth of polygon RZ-E-16B was originally five feet below the pre-2011 remediation topographic surface, however some surface grading and shallow excavation had been performed in the area as part of the 2011 remediation program, including the removal and disposal of shallow polygon material in

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accessible areas as part of the construction of a stormwater conveyance ditch. In consideration of the changes in topography, ENVIRON created a new polygon RZ-E-16B design with an excavation depth of five feet below the pre-grading ground surface, which corresponded to a depth ranging from two to five feet below the post-grading surface. No changes had been made to the topographic surface within the small remaining area of RZ-E-16A (due to the position of the overlying sandbag dam structure), thus the design of the portion of the excavation comprised of the remaining RZ-E-16A polygon remained unchanged, with a depth of seven feet below grade. Envirocon imported ENVIRON's excavation design into AutoCAD Civil 3D and modeled the excavation in three dimensions to ensure that all of the remaining soil within the vertical and horizontal boundaries of the original polygons would be removed.

The three dimensional polygon design model was uploaded to global positioning system (GPS) rover units for field use. Excavation was completed with GPS-guided equipment and with periodic manual topography checks using the rover units to determine when the design depth had been reached. Upon completion of the excavation, post-work topographic data were collected. ENVIRON field personnel worked closely with Envirocon's surveying technician to ensure that design depths had been reached.

#### 2.1.2 Discolored Soil Observations and Remediation

Discolored soil was encountered in various locations at the Site during the 2011 remediation activities described in the Interim Soil Removal Action Completion Report (ENVIRON 2012c). Based on chemical composition and/or accessibility, discolored soil was typically removed.

During the 2011 remediation activities, when the adjacent portion of RZ-E-16A to the southwest was excavated, a vertical cross-section of the southwestern boundary of the ECA E3 area was visible. The cross section was observed to contain a layer of beige, fibrous soil and debris, as well as discolored soil, ranging between approximately 5 to 7 feet depth bgs. The layer, where visible in cross-section, appeared to be within polygon RZ-E-16A, and it appeared to extend northeastward beneath the bottom depth of polygon RZ-E-16B, along the axis of the former Beta Ditch. Samples collected from the layer indicated that the discolored soil and debris were impacted with asbestos (ENVIRON 2012c). During the recent excavation activities, this layer was completely excavated and removed following the excavation of the overlying polygon soil.

Following removal of polygon soil and the ACM-impacted soil layer beneath the RZ-E-16B polygon, continual observations were made of excavation sidewalls and bottom for discolored soil. No additional discolored soil areas were observed in the excavation area.

# 2.2 Work Area Preparation and Remediation Program Resources

#### 2.2.1 Perimeter Fence Relocation

In the vicinity of the excavation area, the perimeter fence line was temporarily relocated to the west, in order to provide access to the entire excavation area from the adjacent TIMET property, where Envirocon was concurrently working on a soil remediation program for TIMET. The relocation of the fence was performed by Fencing Specialists, Inc. in September 2013. The fence was restored to its original configuration in October 2013 after completion of the excavation activities, as described in Section 4.2.

### 2.2.2 Property Line Survey

The property line between the NERT and TIMET properties was marked within and adjacent to the excavation area by Atkins Global, Inc. in July 2013, prior to the start of excavation activities. The survey was based on an ALTA survey map (Quantum 2009). The property line formed the eastern boundary of the excavation area.

# 2.2.3 Underground Utility Clearance

Before excavation began, the work area was checked for underground utilities to prevent the utilities from being damaged during remediation activities. The protection of utilities consisted of checking plans, blueprints, and figures from Tronox and GWETS groundwater conveyance system designs, checking with Tronox personnel, and retaining a private utility locator (GPRS, Inc.) to scan for utilities using non-intrusive geophysical techniques. Tronox also required ENVIRON to obtain a groundbreaking permit prior to excavation because the excavation is within a Tronox-leased area. The groundbreaking permit was issued prior to the start of work. In addition, Underground Service Alert (USA) was contacted at least 48 hours prior to the start of excavation to allow public utility companies to mark underground lines.

The only utilities identified in the excavation area were transite pipes related to the Pittman Bypass pipeline which were removed from within the excavation area and sealed with concrete where they exited the excavation area.

# 2.2.4 Permitting

Envirocon obtained the following permits prior to beginning remediation activities at the Site:

- A Dust Control Permit for Construction Activities including Surface Grading and Trenching
  was obtained from the Clark County Department of Air Quality (CCDAQ), Permit Number
  42498, by Envirocon for the adjacent TIMET project. Envirocon requested and received
  approval for the TIMET permit to be modified (Modification No. 2) to cover the activities at
  the east end of the former Beta Ditch on NERT property.
- A National Emissions Standards for Hazardous Air Pollutants (NESHAP) Notification of Asbestos Abatement (Project No. 130352) was submitted to the CCDAQ for the adjacent TIMET project. Envirocon requested and received approval for the TIMET notification to be modified to include asbestos abatement activities at the east end of the former Beta Ditch excavation on NERT property.
- A Permit to Transport Asbestos was obtained for the adjacent TIMET project from the Southern Nevada Health District (Permit Number ATP13-072204) and based on Envirocon's discussion with CCDAQ, the permit was allowed to be used for the transportation of ACM from the east end of the former Beta Ditch on NERT property;
- The work was conducted under the previous grading permits from the 2010-2011 remediation project, which remained open according to communications with the County.
   The permits (Permit Numbers 10-21350 GD6 and 10-33981 GD6) were obtained from Clark County Department of Development Services (CCDDS).

Following completion of the remediation activities, permits were closed out as necessary. Permit closure documentation for the dust control permit was obtained from CCDAQ on October

15, 2013. Asbestos abatement notification and transportation permits expire after the completion of the work; specific permit closure documentation was not required. The grading permit remains open pending future soil remediation work at the Site that may require grading activities.

Copies of permits obtained for the excavation program and associated documentation are provided in Appendix B, except for the grading permits, copies of which were included in the Interim Soil Removal Action Completion Report (ENVIRON 2012c).

#### 2.2.5 Site Controls

Due to the relocation of the perimeter fence further to the west to allow equipment and personnel access from the TIMET property, Site access during remediation activities was controlled by TIMET's perimeter fence with locking gates and security personnel. Signs posted on the perimeter fencing warned visitors to deter unauthorized entry onto the Site. All workers and visitors were required to enter at the TIMET main security gate, where security personnel were present 24 hours a day, 7 days a week.

Additional Site controls included site work requirements, protecting utilities, traffic control, and an exclusion zone designation. These Site controls were necessary to direct the following:

- Remediation workers;
- Vendors and subcontractors (e.g., equipment mechanics, materials delivery, trucking subcontractors); and
- Site visitors (e.g., agency staff, elected or appointed government officials).

Envirocon and ENVIRON personnel, as well as other project subcontractor personnel, were required to complete the TIMET safety training program in order to move around the Site without a TIMET safety trained escort. No visitors were allowed on the Site without escorts, with the exception of NDEP representatives who had completed the TIMET safety training program and were onsite to observe the remedial work. All properly trained remediation workers, subcontractors, and NDEP personnel were required to check in at the TIMET security office and receive a badge and vehicle pass on a daily basis. All personnel were required to attend a tailgate health and safety briefing before entering any remediation exclusion zones.

Traffic control at the Site occurred at excavation entrances/exits that were difficult for large equipment to exit. As an example, flaggers were used to stop traffic while haul trucks dumping fill exited the area. Flaggers were also used any time material was being hauled offsite or when fill was being brought onto the Site.

An exclusion zone was set up around excavation areas before work began. The perimeter fencing acted as a barrier around the excavation. The eastern side of the excavation was unfenced and was used for access by equipment and personnel. Signs were placed near the excavation to alert workers of the exclusion zone area and proper decontamination areas.

Stormwater best management practices (BMPs) were in place at the excavation area, including the use of silt fences and straw wattles in sloped areas, procedures to cover any soil stockpiles

prior to a predicted rain event, and procedures to prevent or contain and clean up any leaks of fuel, oil or other equipment-related fluids.

# 2.2.6 Survey Equipment and Survey Control Stations

Envirocon utilized Trimble GPS equipment, including portable data controllers and receivers (model numbers TSC2 and R8GNSS, respectively) and a base station (Zephyr Geodetic Model 2 with SPS 850 Radio unit). Software used included Trimble Business Center, SiteVision Office, and AutoCAD Civil 3D 2013. The normal accuracy range of the equipment was +/- 0.01 to 0.05 ft for both horizontal and vertical data.

ENVIRON provided Envirocon with a pre-work site map including topographic information which was tied in with the state plane coordinate system. Envirocon imported the topographic information into their AutoCAD Civil 3D 2013 software program to model excavation depths and track progress.

#### 2.2.7 Personnel Roles and Responsibilities

ENVIRON was contracted by the Trust to oversee the excavation. ENVIRON personnel and responsibilities included our Principal-in-charge (design and planning of project; addressing technical issues; managing contracts, budget, and client interactions), Project Managers (leading site activities, addressing issues arising during excavation work, coordinating soil sample collection, scheduling subcontractors and ENVIRON project team, managing waste profiles), and Field Staff (providing subcontractor oversight at active excavation sites, inspecting subcontractor decontamination procedures, collection of soil samples, checking excavation depths, perimeter dust monitoring, dust and volatile organic compound (VOC) monitoring at active excavation sites).

The NDEP program manager provided input and approval of activities which deviated from the approved work plan documents. McGinley and Associates (NDEP representative) provided oversight in the field on behalf of NDEP. McGinley and Associates was onsite periodically during excavation activities to monitor progress and report their observations to NDEP.

Envirocon was subcontracted by ENVIRON to perform the excavation, transportation, disposal and backfill placement for the excavation area. During excavation and backfilling, Envirocon was responsible for maintaining roadways, dust control, and monitoring of truck traffic. Envirocon was also responsible for setting up and maintaining barriers delineating contaminant zones and decontamination zones. Envirocon subcontracted with Walker for asbestos abatement performed during the excavation. Envirocon also subcontracted with other firms and individuals for tasks including soil and debris hauling and assorted minor tasks.

LoSo was subcontracted by ENVIRON to perform asbestos abatement oversight, and air monitoring during asbestos abatement activities. LoSo also assisted with the characterization and disposal of asbestos-containing waste.

RCI Engineering (RCI) provided assistance and coordination with local regulators to ensure the proper permits were in place for grading activities.

Cesare, Inc. (Cesare) performed geotechnical consulting tasks including making a recommendation for the proper backfill and compaction materials and procedures (which was included as an attachment to the Work Plan), coordinating laboratory testing of backfill material, and field testing of compaction and soil moisture content during backfilling activities.

#### 2.3 Excavation Procedures

Envirocon was contracted to complete the soil excavations according to ENVIRON's Work Plan for the excavation activities (ENVIRON 2013). Envirocon used excavation-specific equipment that was appropriate to remove the COPC-impacted soil to the proper depth and lateral extent. The soil was direct-loaded into dedicated end-dump haul trucks and transported offsite for direct disposal at Republic Services, Inc.'s (Republic's) Apex Regional Landfill (Apex). Envirocon's survey figures showing the topography of the area before excavation, after excavation, and after backfilling and compaction are provided in Appendix C. The Envirocon survey data of the excavated area is also provided on Figure 2.

### 2.3.1 Excavation Equipment Used

GPS-guided excavators were used to remove the existing concrete basin, metal walkway, pipes and associated vaults, and the sandbag dam structure, and were also used to remove soil and debris from the excavation. A GPS-guided dozer was also used to complete the excavation. Backfill materials were transported to the area in end dump trucks and the backfilling was performed by a loader and the GPS-guided dozer. The GPS-guided dozer was also used for compaction of backfill materials. A grader was used to restore the perimeter roadway area.

- Water Equipment: Envirocon used an 8,000-gallon water pull to control the dust produced during excavation and related activities. Envirocon also used an approximately 3,000-gallon water truck to spray water on the perimeter roadway and adjacent areas to control dust produced by trucks and equipment.
- Excavating Equipment: Excavation equipment used within the excavation area included excavators, a dozer, and a loader. The dozer and excavator were GPS-guided to assist in excavating to final grade.
- Loaders: Loaders were used for general soil/backfill transportation onsite.
- <u>Backfilling/Grading Equipment:</u> Several pieces of backfilling and grading equipment were used onsite, including a GPS-guided dozer, a loader and a grader.

# 2.3.2 Dust Control Measures

The dust control measures at the Site were implemented in accordance with Sections 90 – 94 of the *Clark County Air Quality Regulations*, which are administered and enforced by the CCDAQ. These control measures consisted primarily of wetting the surface soil in active excavation areas and along onsite transportation routes. Water for dust control was obtained from TIMET fire hydrants.

# 2.4 Air Monitoring Program

### 2.4.1 Perimeter Dust Monitoring

During the excavation and related activities, onsite personnel performed dust monitoring at four locations around the perimeter of the excavation area to provide information on the effectiveness of dust control measures and to ensure that dust concentrations did not exceed the Site Action Level of 100 micrograms per cubic meter ( $\mu g/m^3$ ) (24-hour average). To accommodate changing wind conditions and to measure both upwind and downwind concentrations, monitoring stations were established at the north, south, east, and west sides of the excavation area (Figure 2). Perimeter dust concentrations were measured during work hours using Thermo Scientific personal DataRAM pDR-1000AN devices that were programmed to provide real-time dust concentrations and to record the average concentration every sixty seconds.

After the completion of dust-generating activities each day, the perimeter dust monitoring data were downloaded, graphed and reviewed to ensure that dust concentrations did not exceed the Site Action Level. The data were compared to field notes on wind direction to better understand the reason for any short-term exceedance(s) of the Site Action Level. ENVIRON found that while there were some sporadic short-term measurements over 100  $\mu$ g/m³, they were typically brief and likely due to momentary increases in wind speed or mobilization of equipment in the vicinity of an air monitoring station. Measured values above 100  $\mu$ g/m³ were uncommon and short-lived. While data were only recorded during work hours and not during night-time hours, the daytime data indicate that the 24-hour average dust concentrations at the excavation area did not exceed the Site Action Level, assuming night-time concentrations were less than or equal to daytime concentrations.

#### 2.4.2 Work Zone Asbestos Air Monitoring

Work zone asbestos monitoring was performed by LoSo during asbestos remediation. Samples were taken using Gilian BDX II Personal Abatement Air Samplers. The asbestos air sampling was performed within the work area in a downwind direction from abatement activities and loading of asbestos-impacted material. According to the monitoring data, the concentration of asbestos at the project boundary was never measured above the Occupational Safety and Health Administration (OSHA) 8-hour personal exposure limit (PEL) of 0.1 fibers per cubic centimeter (fibers/cc). Work zone asbestos air monitoring data are included in LoSo's *Visual Inspection Report*, provided in Appendix D (LoSo 2013).

#### 2.4.3 Work Zone Dust Monitoring

During the excavation and related activities, onsite personnel performed work zone dust monitoring. The monitoring was performed using a Thermo Scientific personal DataRAM pDR-1000AN device which was programmed to measure the sixty-second average of real-time dust concentrations. Readings of upwind and downwind concentrations were taken approximately once every hour and were recorded in daily logs. If the difference between the upwind and downwind concentrations exceeded 100  $\mu$ g/m³, onsite personnel worked with excavation crews to ensure that additional dust control measures were implemented in a timely manner. A review of the daily logs found that, while there were sporadic exceedances of the 100  $\mu$ g/m³ threshold, these exceedances were brief and were typically caused by an acute dust generating activity

(e.g., backfill unloaded at the excavation site) or from a momentary change in meteorological conditions (i.e., gust of wind).

### 2.4.4 Work Zone Volatile Organic Compound Monitoring

ENVIRON personnel performed periodic VOC monitoring of worker breathing zones as part of ENVIRON's site-specific Health and Safety Plan (HASP). The monitoring was performed at the working face of the excavation using handheld MiniRAE 3000 photoionization detectors (PIDs) with 10.6 electron volt (eV) and 11.7 eV lamps, which provided direct read-outs of real-time VOC concentrations. The results of the VOC monitoring were recorded in daily logs.

ENVIRON's HASP describes the action level for total volatile organic compounds (VOCs) as a sustained (i.e., five-minute sampling period) concentration of five parts per million (ppm) above background levels. Should concentrations exceed the action level, Site personnel are instructed in the HASP to upgrade to Level C personal protective equipment (PPE) and attempt to mitigate exposure through the use of engineering controls (i.e., move upwind, increase air circulation). If the action level still could not be met, ENVIRON personnel would leave the area and contact the Site Health and Safety Officer and Project Manager for further instructions.

No VOCs were detected in worker breathing zones or anywhere in the excavation area during the excavation of the east end of the former Beta Ditch.

# 2.5 Decontamination of Personnel and Equipment

During the remediation of Site soils, all personnel and equipment which came into contact with impacted material were required to undergo decontamination procedures. Initial decontamination procedures took place within exclusion zones to minimize the transport of contaminants to clean areas, with additional controls and practices in place throughout the Site to prevent transport of impacted materials offsite.

#### 2.5.1 Personnel Decontamination

All personnel used proper PPE and were subject to all HASP rules while work was in progress at the Site. Decontamination areas were established near access points to exclusion zones. These areas included boot brushes and mats. All personnel were required to use a boot brush to remove excess soil before exiting an exclusion zone. Nitrile gloves were made readily available for personnel having to come in contact with impacted soils.

#### 2.5.2 Excavation Equipment and Haul Truck Decontamination

All excavation equipment was decontaminated before exiting the work area, including the area encompassing the TIMET soil remediation program. Prior to relocating equipment, all loose and heavily caked soil was removed using brushes, flatbladed scrapers, hammers, or other suitable tools. The insides of excavator buckets were also decontaminated. All removed soil scrapings were contained and disposed appropriately. A Neptune wheel-wash station was used to clean haul truck and equipment wheels and undersides prior to exiting the TIMET soil remediation program area.

Upon arriving at Apex, the haul trucks travelled to the appropriate cell for placement of the waste. After dumping the waste, the haul trucks proceeded along rumble strips and/or a gravel

track out road to a decontamination station located on a wide berm between treatment cells (double-lined shallow ponds used for liquid wastes received by the landfill). Trucks first passed over an under-carriage wash unit while a laborer washed off the lower portion of the haul truck cab and trailers, including tires, mud flaps, and dump gates, with a fire hose. Rinse water from the decontamination station drained directly into the treatment cells. At the end of the day's rounds and when trucks were to return to the Site with clean fill, a laborer typically ascended a scaffolding setup in order to rinse the insides of the haul truck trailer beds.

# 2.5.3 Sampling Equipment Decontamination

Confirmation soil samples were collected using an AMS<sup>®</sup> slide hammer and two-inch by six-inch stainless steel core sampler. New pre-cleaned stainless steel or brass sample liners were inserted into the decontaminated core sampler, which was then threaded onto the slide hammer. After the slide hammer was used to collect the sample, the undisturbed soil sample (contained in the metal core liner) was removed from the sampler and sealed with Teflon sheeting and new plastic end caps.

The stainless steel slide hammer core sampler tubes were decontaminated using a Liquinoxdeionized water solution in combination with a scrub brush to remove residual soil. The equipment was rinsed with deionized water after cleaning.

# 2.6 Waste Management

After soils were excavated, they were loaded onto covered end-dump trucks for direct transportation to Apex landfill. All operators and vehicles were properly licensed by the Nevada Department of Transportation.

#### 2.6.1 Waste Disposal Facility

All waste was profiled as nonhazardous and, thus, was transported to Apex, which is operated by Republic and is located approximately 37 miles from the Site. Upon arriving at the landfill, trucks were directed to a "working face" where the contents of the trucks were uncovered and dumped. Waste was placed in several different cells within the landfill property, depending on which areas of the landfill were active. The haul truck decontamination procedures in place at the landfill are detailed in Section 2.5.2.

### 2.6.2 Waste Streams, Characterization, and Profiling

All Site soil excavated during remediation at the Site was characterized as nonhazardous. Two profiles were set up for Site soils: one for soil and construction debris (3825 13 12625) and a second for asbestos-impacted soil and debris (3825 13 12575). Waste profiles were submitted with analytical data from soil samples previously collected in 2010 by Northgate at location SSAL8-02. The samples had been analyzed for arsenic and manganese (USEPA Method 6020/7471A); and Organochlorine Pesticides (USEPA Method 8081A) during previous soil characterization activities at the Site. The analytical results, along with a description of manufacturing processes related to the former Beta Ditch and an explanation of the selection of analytical methods at that location, were sent to Republic for waste profile acceptance. Profile documentation, including analytical results, is provided in Appendix E. Republic approved the waste profiles and allowable disposal quantities in September 2013. The approved disposal

quantity of asbestos-impacted soil and debris was subsequently increased from 50 to 500 cubic yards (cy).

# 2.6.3 Waste Manifests and Truck Tickets

Upon entering the Site, haul trucks proceeded to the work area for loading. Before the trucks were loaded, Envirocon operators provided the driver with the correct manifest for the current waste load. Apex returned a copy of each manifest and its corresponding scale ticket to Envirocon after the waste was dumped. All waste manifests and a summary of truck tickets from Apex are provided in Appendix H.

# 3 Soil Excavation Work

# 3.1 Soil Excavation from Polygon Areas

Remediation polygon soils (RZ-E-16B and a portion of RZ-E-16A) and debris at the east end of the former Beta Ditch were excavated and disposed of at Apex. An estimated total of 1028 cy of non-asbestos-impacted soil and debris was removed from the Site and disposed of at Apex during the excavation.

The excavation design and its relationship to the boundaries of the remediation polygons are described in Section 2.1.1. Waste profiling and disposal are discussed in Section 2.6. A summary of excavated volumes is provided in Table 2. The remediation polygon boundaries within the excavation area are shown on Figure 2.

# 3.2 Removal of Asbestos-Containing Material Encountered During Remediation

Asbestos remediation was performed by Walker, the asbestos abatement subcontractor working for Envirocon. Oversight of remediation activities, including the removal of ACM, was performed by ENVIRON, with assistance from its subcontractor LoSo. As part of the asbestos abatement oversight, LoSo performed visual clearance assessments and work zone asbestos air monitoring (see Section 2.4.2).

During the excavation activities, both known and previously unknown ACMs were found within the excavation. An estimated total of 422 cy of asbestos-impacted soil and debris was removed from the Site and disposed at Apex during the excavation. A description of ACMs encountered during the remediation program is provided below.

Known ACM removed during the excavation included fibrous debris and soil containing fibrous material within a discolored layer of soil that had been discovered during the excavation of the adjacent area to the west during the 2011 remediation program (see Section 2.1.2). The layer was present within the small remaining portion of polygon RZ-E-16A, and beneath polygon RZ-E-16B, at a depth of approximately 5 to 7 feet bgs. In order to characterize the discolored layer within the ECA, the layer was sampled and tested as part of a *Limited Asbestos Survey* conducted by LoSo during the 2011 remediation program (included in Appendix F). Three of the five samples collected and analyzed for bulk asbestos contained asbestos at concentrations ranging from 10 to 99 percent (ENVIRON 2012c; LoSo 2011).

Previously unknown ACM removed during the excavation included underground piping associated with the Pittman Bypass pipeline that was identified by LoSo and Walker as transite (a material manufactured from concrete and asbestos).

Transite pipe segments and larger pieces of fibrous debris were immediately covered with plastic sheeting by Walker. Smaller pieces of fibrous debris, transite pipe fragments, soil containing fibrous material, and soil adjacent to fibrous material were excavated and direct-loaded into end-dump trucks lined with plastic sheeting. All ACM and suspect ACM were disposed at Apex landfill under an approved waste profile for asbestos-impacted soil and debris. Waste profiling and disposal are discussed in Section 2.6. A summary of excavated volumes is provided in Table 2.

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### 3.2.1 Asbestos Inspection and Clearance

After completion of ACM abatement and disposal, visual inspections of each removal area were performed by LoSo to identify any remaining ACM material. If none was present, the area received clearance and soil remediation excavation work or backfill/grading would continue. Based on the work zone air monitoring data collected, the concentration of asbestos at the project boundary was never measured above the OSHA 8-hour PEL of 0.1 fibers/cc. A visual clearance and air sampling report prepared by LoSo is provided in Appendix F.

#### 3.3 Discolored Soil

A layer of discolored soil and fibrous debris was known to exist beneath and within the excavation polygon boundaries. This layer, which is discussed in Section 2.1.2 and Section 3.2, was specifically targeted for removal. After removal of the layer, no additional discolored soil was observed in the excavation bottom or sidewalls.

# 3.4 Confirmation Soil Sampling

After the completion of excavation activities, confirmation soil samples were collected from the sidewalls and bottom of the excavation. Sidewall samples were collected from the north, west, and south sides of the pit. No eastern sidewall sample was collected because the adjacent excavation on TIMET property to the east was deeper than the excavation on NERT property, thus no eastern sidewall was present. A bottom sample was collected from the bottom of the excavation in the approximate center of the excavation area. Confirmation soil sample locations are shown on Figure 2.

# 3.4.1 Confirmation Soil Sample Analyses

In accordance with the Work Plan (ENVIRON 2013) and the Site Management Plan (SMP) Appendix A (*ECA Summary*) (ENVIRON 2012a, 2012b), confirmation soil samples were analyzed for the constituents identified as being associated with ECA E3. The analytes included metals by USEPA Method 6010B (arsenic and manganese), hexavalent chromium by USEPA Method 7199, perchlorate by USEPA Method 314.0, PCBs by USEPA Method 8082, organochlorine pesticides by USEPA Method 8081A, inorganic ions by USEPA Method 9056 (nitrate, nitrite, and orthophosphate), sulfide by USEPA Method 9034, cyanide by USEPA Method 9014, pH by USEPA Method 9045C, and asbestos by USEPA Method 600/R-93/116.

#### 3.4.2 Confirmation Soil Sample Analytical Results

Confirmation soil sample analytical results were tabulated and the results of chemical analyses were compared to SRGs. SRGs are based on NDEP BCLs in effect at the time of excavation (dated August 2013) except for arsenic, the SRG for which is based on the typical natural background concentration of arsenic in Site soils. All results were below SRGs with the exception of arsenic in the southern sidewall sample, which had a concentration of 7.3 milligrams per kilogram (mg/kg), which slightly exceeded the SRG of 7.2 mg/kg. Based on consultation with NDEP, the southern sidewall arsenic result was found to be acceptable provided that the results would be factored into future risk assessment calculations as part of the Remedial Investigation/Feasibility Study (RI/FS).

Asbestos analytical results indicated that no asbestos fibers were counted during the polarizing light microscopy (PLM) analysis of the samples.

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Confirmation soil sample analytical results were provided by email to NDEP on October 11, 2013. Written approval of confirmation soil sample analytical results was received from NDEP on the same day. After receiving the approval, the excavation was backfilled and compacted, and the perimeter fencing and access roadway were restored as described in Section 4. Confirmation soil sample analytical results are presented in Table 3.

# 3.4.3 Validation of Confirmation Sample Analytical Reports

Data validation for chemical analytical data was provided by Laboratory Data Consultants, Inc. (LDC). A Data Validation Summary Report (DVSR) is provided as Appendix H.

# 4 Site Restoration

### 4.1 Backfill Methods

Imported fill materials were transported to the Site from the Buffalo Ranch quarry, located in Spring Valley, approximately 16 miles northwest of the Site, and west of Las Vegas, Nevada. During backfilling, the imported backfill materials were placed in maximum 12-inch loose lifts, moisture conditioned, and compacted to a minimum of 90 percent of maximum dry density and within 3 percent of optimum moisture content.

Cesare was subcontracted by ENVIRON to perform backfill placement oversight and soil compaction testing. Laboratory testing was performed on imported backfill material, including moisture/density relationships, plasticity index, expansion and particle size distribution. Field density and moisture content were determined after the compaction of each lift with a nuclear density gauge, in general accordance with the American Society for Testing and Materials (ASTM) D6938 test method. Approximate elevations and locations of the tests performed were referenced from survey elevations provided by Envirocon. Results of laboratory backfill testing, as well as field density and moisture content testing, are provided in the Summary Grading Report prepared by Cesare (provided in Appendix I).

Based on their field observations, field testing, and laboratory testing, Cesare concluded that preparation, placement and compaction of fill materials were performed in accordance with the geotechnical recommendations they had provided, which were included in the Work Plan (ENVIRON 2013).

# 4.2 Restoration of Perimeter Fence and Access Roadway

Following the completion of backfilling and compaction activities, the perimeter fence was restored to its original configuration by Fencing Specialists, Inc.

The backfilled and compacted area of the access roadway along the east side of the perimeter fence was re-graded and re-surfaced with road base gravel, thus restoring the roadway to its previous condition.

#### 4.3 Demobilization

Upon completion of the Site activities, all of the equipment utilized by Envirocon was removed from the Site.

# 5 References

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# **Tables**

TABLE 1 Soil Remediation Goals (SRGs)				
Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL <sup>a</sup> or Site- Specific Screening Level	Basis
Organic Acids	4-Chlorobenzenesulfonic acid	mg/kg	117	sat
	Benzenesulfonic acid	mg/kg	100,000	max
	Diethyl phosphorodithioic acid	mg/kg	90,800	N
	Dimethyl phosphorodithioic acid	mg/kg	100,000	max
	Phthalic acid	mg/kg	100,000	max
Organophosphate	Azinphos-Methyl	mg/kg		
Pesticides	Bolstar	mg/kg		
	Chlorpyrifos	mg/kg	2,050	N
	Coumaphos	mg/kg		
	Demeton-O	mg/kg		
	Demeton-S	mg/kg		
	Diazinon	mg/kg	616	N
	Dichlorvos	mg/kg	6.6	С
	Dimethoate	mg/kg		
	Disulfoton	mg/kg	27.4	N
	EPN	mg/kg		
	Ethoprop	mg/kg		
	Ethyl Parathion	mg/kg	4,100	N
	Famphur	mg/kg		
	Fensulfothion	mg/kg		
	Fenthion	mg/kg		
	Malathion	mg/kg	13,700	N
	Merphos	mg/kg		
	Methyl Parathion	mg/kg	171	N
	Mevinphos	mg/kg		
	Naled	mg/kg	1,370	N
	Phorate	mg/kg		
	Ronnel	mg/kg	34,200	N
	Stirophos		79.8 <sup>b</sup>	N
	Sulfotep	mg/kg	1 3.0	
	Thionazin	mg/kg mg/kg		
	Tokuthion	mg/kg		
	Trichloronate	mg/kg		
Organochlorine				
Pesticides	4,4'-DDD	mg/kg	11.1	С
. couloides	4,4'-DDE	mg/kg	7.81	С
	4,4'-DDT	mg/kg	7.81	С
	Aldrin	mg/kg	0.113	С
	Alpha-BHC	mg/kg	270	С
	Alpha-chlordane	mg/kg		
	Beta-BHC	mg/kg	53.9	С
	Delta-BHC	mg/kg	270	
	Dieldrin	mg/kg	0.12	С
	Endosulfan I	mg/kg	4,100	
	Endosulfan II	mg/kg	4,100	
	Endosulfan Sulfate	mg/kg	4,100	

TABLE 1 Soil Remediation Goals (SRGs)				
Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL <sup>a</sup> or Site- Specific Screening Level	Basis
	Endrin	mg/kg	205	N
	Endrin Aldehyde	mg/kg		
	Endrin Ketone	mg/kg		
	Gamma-BHC (Lindane)	mg/kg	898	С
	Gamma-chlordane	mg/kg		
	Heptachlor	mg/kg	0.426	С
	Heptachlor Epoxide	mg/kg	0.21	С
	Methoxychlor	mg/kg	3,420	N
	Tech-Chlordane	mg/kg	7.19	С
	Toxaphene	mg/kg	1.74	С
SVOCs	1,4-Dioxane	mg/kg	19.2	С
	2-Methylnaphthalene	mg/kg		
	Acenaphthene	mg/kg	2,560	N
	Acenaphthylene	mg/kg	147	sat
	Anthracene	mg/kg	9,920	N
	Benz(a)anthracene	mg/kg	2.34	С
	Benzo(a)pyrene	mg/kg	0.234	С
	Benzo(b)fluoranthene	mg/kg	2.34	C
	Benzo(g,h,i)perylene	mg/kg	34,100	N
	Benzo(k)fluoranthene	mg/kg	23.4	С
	bis(2-Ethylhexyl)phthalate	mg/kg	137	С
	Butyl benzyl phthalate	mg/kg	240	sat
	Chrysene	mg/kg	234	C
	Dibenz(a,h)anthracene	mg/kg	0.234	C
	Diethyl phthalate	mg/kg	100,000	max
			100,000	
	Dimethyl phthalate	mg/kg		max
	Di-N-Butyl phthalate	mg/kg	68,400	N
	Di-N-Octyl phthalate	mg/kg		
	Fluoranthene	mg/kg	24,400	N
	Fluorene	mg/kg	3,670	N
	Hexachlorobenzene <sup>c</sup>	mg/kg	1.2	С
	Indeno(1,2,3-cd)pyrene	mg/kg	2.34	С
	Naphthalene	mg/kg	17.4	С
	Nitrobenzene	mg/kg	15.1	С
	Octachlorostyrene	mg/kg		
	Phenanthrene	mg/kg	24.5	sat
	Pyrene	mg/kg	19,300	N
	Pyridine	mg/kg	667	N
VOCs	1,1,1,2-Tetrachloroethane	mg/kg	20.3	С
	1,1,1-Trichloroethane	mg/kg	1,390	sat
	1,1,2,2-Tetrachloroethane	mg/kg	2.59	С
	1,1,2-Trichloroethane	mg/kg	5.80	С
	1,1-Dichloroethane	mg/kg	23.3	С
	1,1-Dichloroethene	mg/kg	1,400	N
	1,1-Dichloropropene	mg/kg		

TABLE 1 Soil Remediation Goals (SRGs)				
Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL <sup>a</sup> or Site- Specific Screening Level	Basis
	1,2,3-Trichlorobenzene	mg/kg		
	1,2,3-Trichloropropane	mg/kg	0.106	С
	1,2,4-Trichlorobenzene	mg/kg	110	N
	1,2,4-Trimethylbenzene	mg/kg	671	N
	1,2-Dibromo-3-chloropropane	mg/kg	0.0583	С
	1,2-Dichlorobenzene	mg/kg	373	Sat
	1,2-Dichloroethane	mg/kg	2.41	С
	1,2-Dichloropropane	mg/kg	4.54	С
	1,3,5-Trimethylbenzene	mg/kg	254	sat
	1,3-Dichlorobenzene	mg/kg	373	Sat
	1,3-Dichloropropane	mg/kg	71.6	N
	1,4-Dichlorobenzene	mg/kg	14.3	С
	2,2-Dichloropropane	mg/kg		
	2-Butanone	mg/kg	34,100	sat
	2-Chlorotoluene	mg/kg	511	sat
	2-Hexanone	mg/kg	2,150	N
	2-Methoxy-2-methyl-butane	mg/kg		
	4-Chlorotoluene	mg/kg		
	4-Isopropyltoluene	mg/kg	647	Sat
	4-Methyl-2-pentanone	mg/kg	17,200	Sat
	Acetone	mg/kg	100,000	Max
	Benzene	mg/kg	4.50	C
		- 0		
	Bromobenzene Bromochloromethane	mg/kg	695	N
	Bromodichloromethane	mg/kg		
		mg/kg	3.60	C
	Bromoform	mg/kg	242	
	Bromomethane	mg/kg	42.9	N
	Carbon tetrachloride	mg/kg	4.07	C
	Chlorobenzene	mg/kg	695	Sat
	Chloroethane	mg/kg	1,100	С
	Chloroform	mg/kg	1.71	С
	Chloromethane	mg/kg	8.95	C
	cis-1,2-Dichloroethene	mg/kg	791	N
	cis-1,3-Dichloropropene	mg/kg	 C 4E	
	Dibromochloromethane	mg/kg	6.15	C
	Dibromomethane  Diablaradifluoremethans	mg/kg	210	N
	Dichlorodifluoromethane	mg/kg	340	Sat
	Ethyl t-butyl ether	mg/kg		
	Ethylbenzene	mg/kg	21.0	С
	Ethylene dibromide	mg/kg	0.185	С
	Hexachlorobutadiene	mg/kg	24.6	С
	Isopropyl ether	mg/kg		
	Isopropylbenzene	mg/kg	647	Sat
	m p-	mg/kg	214	Sat
	Methyl tert butyl ether	mg/kg	216	С

TABLE 1 Soil Remediation Goals (SRGs)				
Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL <sup>a</sup> or Site- Specific Screening Level	Basis
	Methylene chloride	mg/kg	60.4	С
	Naphthalene	mg/kg	17.4	С
	N-Butylbenzene	mg/kg	237	Sat
	N-Propylbenzene	mg/kg	237	Sat
	o-Xylene	mg/kg	282	Sat
	sec-Butylbenzene	mg/kg	223	Sat
	Styrene	mg/kg	1,730	Sat
	t-Butyl alcohol	mg/kg	21,300	Sat
	tert-Butylbenzene	mg/kg	393	Sat
	Tetrachloroethene	mg/kg	3.28	С
	Toluene	mg/kg	521	Sat
	trans-1,2-Dichloroethylene	mg/kg	600	N
	trans-1,3-Dichloropropene	mg/kg		
	Trichloroethene	mg/kg	5.49	С
	Trichlorofluoromethane	mg/kg	1,980	Sat
	Vinyl Chloride	mg/kg	1.86	C
	Xylenes, total	mg/kg	214	Sat
TPH	Oil Range Organics (TPH-oil)		100 <sup>d</sup>	
	TPH-d	mg/kg	100 <sup>d</sup>	
	TPH-g	mg/kg	100 <sup>d</sup>	
PCBs		mg/kg		
1 003	Aroclor-1016	mg/kg	23.6	C
	Aroclor-1221	mg/kg	0.826	
	Aroclor-1232	mg/kg	0.826	С
	Aroclor-1242	mg/kg	0.826	С
	Aroclor-1248	mg/kg	0.826	С
	Aroclor-1254	mg/kg	0.826	С
	Aroclor-1260	mg/kg	0.826	С
	Total PCBs	mg/kg	0.826	С
	TCDD TEQ <sup>®</sup>	pg/g	2,700 <sup>†</sup>	С
General Chemistry	Cyanide	mg/kg	13,700	N
	Perchlorate	mg/kg	795	N
Dioxins/Furans	TCDD TEQ <sup>9</sup>	pg/g	2,700 <sup>f</sup>	С
Metals	Aluminum	mg/kg	100,000	Max
	Antimony	mg/kg	454	N
	Arsenic	mg/kg	7.2 <sup>h</sup>	
	Barium	mg/kg	100,000	Max
	Beryllium	mg/kg	2,230	N
	Boron	mg/kg	100,000	Max
	Cadmium	mg/kg	1,110	N
	Chromium (III)	mg/kg	100,000	Max
	Chromium (VI)	mg/kg	1,360	С
	Cobalt	mg/kg	337	N
	Copper	mg/kg	42,200	N
	Iron	mg/kg	100,000	Max
	Lead	mg/kg	800 <sup>i</sup>	

	TABLE 1 Soil Remediation Goals (SRGs)				
Parameter of Interest	Chemical	Unit	NDEP 2013 Worker BCL <sup>a</sup> or Site- Specific Screening Level	Basis	
	Magnesium	mg/kg	100,000	Max	
	Manganese	mg/kg	24,900	N	
	Mercury	mg/kg	341	Ν	
	Molybdenum	mg/kg	5,680	N	
	Nickel	mg/kg	21,800	N	
	Platinum	mg/kg			
	Potassium	mg/kg			
	Selenium	mg/kg	5,680	Ν	
	Silver	mg/kg	5,680	Ν	
	Sodium	mg/kg			
	Strontium	mg/kg	100,000	Max	
	Thallium	mg/kg	74.9 <sup>i</sup>		
	Tin	mg/kg	100,000	Max	
	Titanium	mg/kg	100,000	Max	
	Tungsten	mg/kg	8,510	N	
	Uranium	mg/kg	3,400	N	
	Vanadium	mg/kg	5,680	N	
	Zinc	mg/kg	100,000	Max	
Asbestos	Long amphibole fibers Long chrysotile	fibers	1 or more <sup>J</sup> More than 5 <sup>J</sup>		

- a From User's Guide and Background Technical Document for Nevada Division of Environmental Protection (NDEP) August 2013 Basic Comparison Levels (BCLs) for Human Health for the BMI Complex and Common Areas, Revision 12, August 2013 (<a href="http://ndep.nv.gov/bmi/technical.htm">http://ndep.nv.gov/bmi/technical.htm</a>). Values listed are for the outdoor industrial/commercial worker.
- b BCL based on mixed isomer.
- c Hexachlorobenzene analyzed using both USEPA Methods 8081 and 8270. Data reported based on USEPA Method 8270 as it was deemed to be the superior method.
- d 100 mg/kg total TPH value used for screening.
- e TCDD equivalents based on WHO 2005 TEFs for the 12 co-planer PCBs; the detection limit was used for non-detect values.
- f Site-specific value.
- g TCDD equivalents based on WHO 2005 TEFs for the 17 dioxin and furan congeners.
- h Based on regional background concentrations.
- i A basis for the lead and thallium BCLs are not identified by NDEP.
- j Site-specific value.
- C = Cancer
- N = Noncancer
- Sat = soil saturation

Max = risk-based value is greater than 100,000 mg/kg

-- = undefined

Table 2: Excavated Soil Volumes
East End of Beta Ditch Excavation
Nevada Environmental Response Trust (NERT) Site; Henderson, NV

	Soil and (	Construction Debris	Asbestos-Impacted Soil and Debris		
Date	Tons	Cubic Yards (Estimated)	Tons	Cubic Yards (Estimated)	
10/2/2013	78.59	102.2	204.54	265.9	
10/3/2013	350.88	456.1	101.76	132.3	
10/4/2013	361.03	469.3	18.66	24.3	
Total	790.5	1027.7	324.96	422.4	

#### Notes:

Weight (tons) of soil/debris disposed was reported by Apex Landfill, as shown in the Truck Tickets Summary in Appendix F. Conversion from tons to cubic yards assumes approximately 1.3 tons per cubic yard.

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Table 3: Confirmation Soil Sample Results
East End of Beta Ditch Excavation
Nevada Environmental Response Trust (NERT) Site; Henderson, NV

Analyte Group	Analyte	Bottom	North Sidewall	West Sidewall	South Sidewall	Site-Specific Criteria <sup>1</sup>
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Arsenic	4.3	5.4	5.4	7.3	7.2
Metals	Manganese	470	550	740	1,100	24,900
	Chromium VI	ND<0.8	0.25 J	ND<0.79	0.52 J	1,360
Perchlorate	Perchlorate	0.92	46	42	6.2	795
PCBs	Total PCBs	ND<0.05	ND<0.049	ND<0.049	ND<0.99	0.826
	4,4-DDT	0.015	0.023	0.003 J	0.94	7.81
	4,4-DDD	ND<0.005	ND<0.0049	ND<0.0049	0.013	11.1
	4,4-DDE	0.044	0.021	0.0049	1.3	7.81
Organochlorine	alpha-BHC	ND<0.005	ND<0.0049	ND<0.0049	0.0028 J	270
Pesticides	beta-BHC	0.0021 J,p	0.017	0.0082	0.037	53.9
	Endrin ketone	ND<0.005	ND<0.0049	ND<0.0049	0.011	na
	Endosulfan II	ND<0.005	ND<0.0049	ND<0.0049	0.2	4,100
	Other Pesticides	ND	ND	ND	ND	N/A
	Nitrate	2.6	16	16	9.6	100,000
	Nitrite	ND<1.5	ND< 1.5	ND<1.5	ND<1.5	100,000
Inorganic Ions	Orthophosphate	ND<1.6 *	ND< 1.6 *	ND<1.6 *	ND<1.6 *	na
	Sulfide	ND<40	ND<40	ND<40	ND<40	na
	Cyanide	ND<0.5	ND<0.5	ND<0.5	ND<0.49	29.3
Wet Chemistry	рН	8.77	8.49	8.49	8.63	na
Asbestos	Bulk Asbestos	No Fibers Detected	No Fibers Detected	No Fibers Detected	No Fibers Detected	na

#### Notes

mg/kg: milligrams per kilogram

na: not available N/A: not applicable

ND<##: not detected at or above the laboratory reporting limit shown

1: based on August 2013 NDEP Basic Comparison Levels (BCLs) except for arsenic, the criteria for which is based on typical natural background concentration.

: result exceeds site specific cleanup criteria (BCL or arsenic background value)

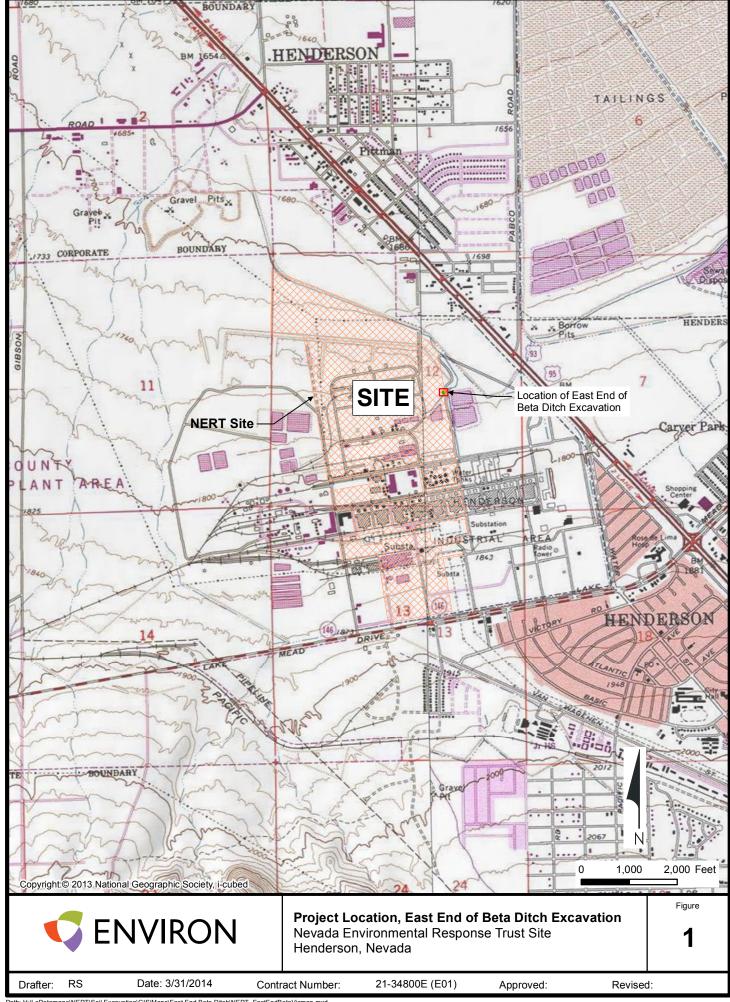
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

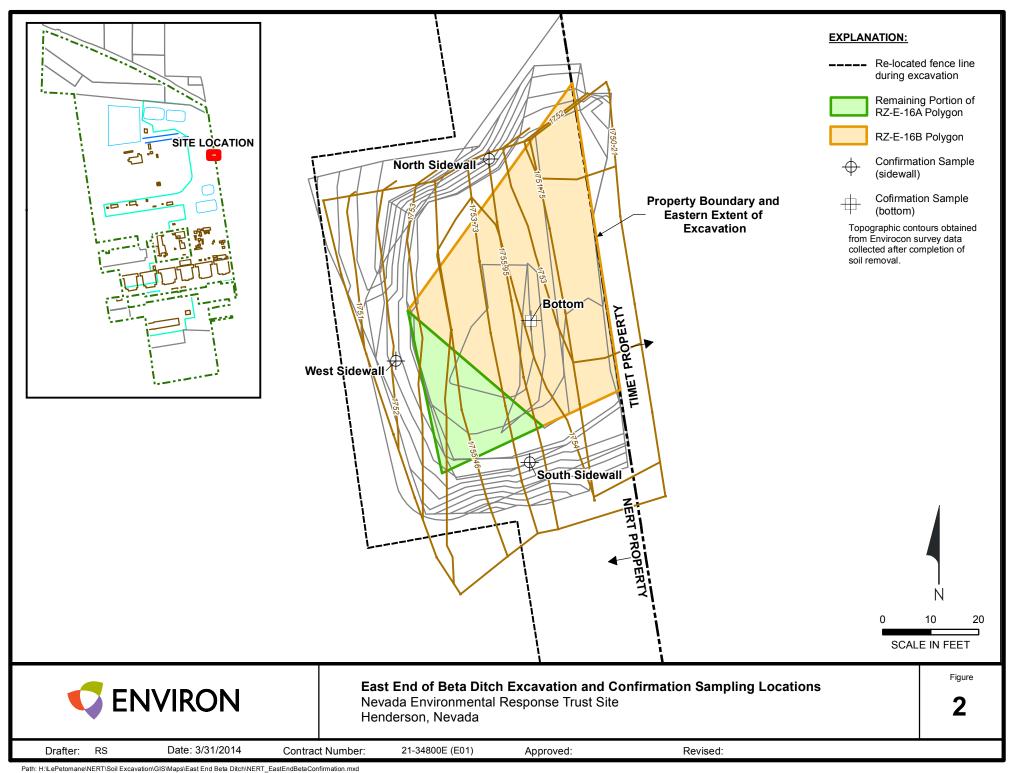
p: The % RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

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<sup>\*:</sup> LCS or LCSD exceeds control limits.

# **Figures**





## **Appendices**

## Appendix A

Photographic Log



Photo 1: Facing north. Removal of structures at east end of former Beta Ditch. October 1, 2013.



Photo 2: Facing northwest. Removal of culvert pipes from shallow soil adjacent to former structures. October 1, 2013.





Photo 3: Facing northwest. Excavation progress near end of second day. October 2, 2013.



Photo 4: Loading of asbestos-impacted soil into end-dump trailer lined with plastic sheeting. October 2, 2013.





Photo 5: Facing northeast. Containing transite pipe (containing asbestos) within plastic sheeting for disposal. October 3, 2013.

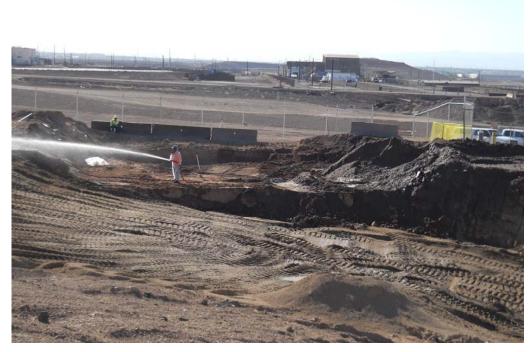


Photo 6: Facing west. Excavation progress toward end of third day. October 3, 2013.





Photo 7: Facing northwest. Excavation nearing completion on fourth day. October 4, 2013.



Photo 8: Removal of last remaining portion of Pittman Bypass Pipeline within excavation area. October 4, 2013.





Photo 9: Facing west. Completed excavation during confirmation soil sampling. October 7, 2013.



Photo 10: End of Pittman Bypass Pipeline terminating at excavation boundary. Pipeline was sealed with concrete and mortar. October 7, 2013.





Photo 11: Facing north. Excavation during backfilling and compaction. October 11, 2013.



Photo 12: Facing east. Compaction testing of backfill materials. October 11, 2013.





Photo 13: Facing west. Backfilling and compaction completed, final compaction testing in progress. October 14, 2013.



Photo 14: Facing north. Restoration of perimeter roadway after completion of backfilling and compaction. October 14, 2013.





Photo 15: Facing northeast. Resurfacing of perimeter roadway with gravel road base. October 15, 2013.



Photo 16: Facing north. Perimeter roadway after resurfacing. October 15, 2013.





Photo 17: Facing southeast. Installation of new perimeter security fence. October 18, 2013.



Photo 18: Facing northeast. New perimeter security fencing has been installed to complete the project. October 21, 2013.



## Appendix B

Permits Obtained for the Remediation Program



## **Department of Air Quality**

4701 W. Russell Rd. - Suite 200 - 2nd Floor Las Vegas, NV - 89118 Main Number : (702) 455-5942 Fax Number : (702) 383-9994

\*42498-0-1\*

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

## DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: PAYMENT INFORMATION: 20131911

42498 Mod: 0 Fee: \$2,058.00

#### Permittee and Project Information

Permittee: **Environcon Inc.** 

Permittee Address: 651 Corporate Circle Suite 114

City, State, Zip: Golden CO 80401 Fax No.:: 3032150182

Project Name: Titanium Metal Corporation - Northwest/Beta Ditch Excavation

Project Address: 181 North Water Street

Located In: Township: 22 Range: 62 Section: 12 EO Area: ESE

Acreage This Mod: 14 Total Acreage: 14

Cross Streets: West Warm Springs Road & N. Boulder Highway

#### Project Contact(s)

Normal Hours: Richard Whitman After Hours: Steve Peterson
Company: Environcon Inc.
Phone: (801)450-9667 Company: Environcon Inc.
Phone: (970)201-2335

Issue Date:	25-Jul-2013	Expiration D	Pate: 25-Jul-2014
Notes			Request Of Sign Waiver
			Public Works Agreement
			○ Closure Plan
			○ Conditional Renewal

#### **DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK**

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.



**CLARK COUNTY • DEPARTMENT OF AIR QUALITY** 

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231 (702) 455-5942 • Fax (702) 383-9994

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APPLICATION
DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES

Blank spaces must be completed for the application to be processed. If not applicable, enter N/A. If the project site has an expired permit or project was previously permitted list the previous permit number: N/A 1. Applicant/Permittee: ☐ Property Owner Developer ✓ Prime Contractor Other Name: Envirocon Inc. Address: 651 Corporate Circle Suite 114 City: Golden State: CO Zip: 80401 Telephone: (303) 215-0187 Ext: Fax: (303) 215-0182 E-mail Address: abuell@envirocon.com 2. Project: Name: Titanium Metal Corporation - Northwest / Beta Ditch Excavation Address: 181 North Water Street City: Henderson Nearest major cross-streets: West Warm Springs Road & N. Boulder Highway Township(s): 22 Range(s): \_\_ 62 Section(s): 12 Assessor's Parcel number(s) (Attach map): <u>178-12-601-003 & 010; 1</u>78-12-701-002 Project Description: Excavation and removal of impacted soils - backfill excavated trench Project Acreage: 14.0 acres (rounded to the nearest 0.1 acre, all land that will be disturbed must be included in project acreage) Permit fees: If the project acreage listed above contains a faction, the project acreage will be rounded up to the next whole number for fee purposes. The rounded up acreage (quantity) value will be used to assess the acreage fee for this permitting action. Submit the total permit fee, with this application. Permit fees are non-refundable. You must select one of the following three choices. This project does not require any offsite street or utility development. This project requires offsite street/utility development that is not included in this application, and will be added at a later date by modification or additional permit. ☐ This application includes offsite street/utility development. (Area must be marked on the accompanying parcel map. Check all that apply) Utility Lateral less than 100 ft. greater than 100 ft. ☐ Half Street Curb / Entrance ☐ Entity Name and Number of Approved Offsite Plan / Permit / ☐ Plan Pending ☐ Other Easement:

Rev. 2/20/2013

3.	Property Owner (if not applicant);		
	Name: Titanium Metal Corporation		
4.	Point of Contact for dust control matter be sent if necessary:	s and to whom a NOTIC	CE OF VIOLATION should
	Name: Steve Peterson	Company: Envirocon la	nc.
	Address: 651 Corporate Circle Suite 114		
	City: Golden		Zip: 80401
	Telephone: (303) 215-0187 Ext:	Fax: (303) 215	0187
	Cellular/Pager: (970) 201-2335		
5.	On-site Superintendent/Supervisor/Fore		
	Name: Richard Whitman	_ Company: Enviroco	on Inc.
	On-site phone: (801) 450-9667	Cellular/Pager: (80	1) 450-9667
	DAQ Dust Class Certification/Card #: DC0		
	Have all on-site supervisory personnel atter	nded the DAQ Dust Class	? Yes 🛭 No
	If no, all on-site supervisory personnel must	tattend a DAQ Dust Clas	s within 30 days.
C D	construction activities will be limited to ris authorized to use for construction application is not a substitute for obtailand. Issuance of a Dust Control Permemissions of air pollutants and assuring applicant/permittee agrees to hold have employees and assigns from any claim land for construction activities.  The permittee accepts responsibility from all other persons on the constructions and conditions of the permit, Quality Regulations.  The applicant/permittee understands permittee agrees to allow the inspectic conditions of the permit and Air Quality hours of operation by a DAQ officer with investigation of a complaint or upon maintain Best Management Practices.  I understand that any material mistinvalidate the permit and that Clark Colin addition, I understand any willful mit declare under penalty of perjury that the couted on:	n activities. The permit is ining the property owner it is intended only for the ing compliance with Air rmless, indemnify, and its that may arise due to or assuring that all contion site covered by this the dust mitigation play that it is a condition on of the site for comply Regulations at any tire ithout prior notice or at direct observation of empresentation made in the internal intended in the intended in the intended in the intended intended in the int	ssued subsequent to this or's permission to use his he purpose of controlling Quality Regulations. The defend Clark County, its any unauthorized use of attractors, subcontractors, sepermit, comply with the in and all applicable Air of the permit that the iance with the terms and me during the permittee's any time pursuant to the mission and/or failure to in this application may ement action against messult in criminal penalties.
	cuted on: 12/13	165	
DAT		RE	
	an Buell	Project Director - E	nvirocon Inc.
PRI	ITED NAME	TITLE AND COMPANY N	

PAYMENT INFORMA	TION TO BE COMPLETED BY THE APPLICANT		
PAYING BY  CASH	(Please Print)		
✓ CHECK	CHECK # 00817653  NAME AND ADDRESS AS IT APPEARS ON CHECK: Envirocon		
	P.O. Box 16655	<del></del>	
	Missoula, MT 59808	<del></del>	
	Telephone #: (406) 523-1150		
CREDIT CARD	LAST FOUR DIGITS OF CREDIT CARD NUMBER: EXACT NAME AS IT APPEARS ON CREDIT CARD:		
FOR DAQ USE OF	3 99 42498	20131911	
ISSUE DATE	ISSUED BY RECEIVED BY	POS#	
DATE PAID			
DAQ REVIEW:	llan Gutternez	DATE: 6/19/13	
BLASTING APPRO	VAL (if applicable):	_ DATE:	
DEMOLITION APP	ROVAL (if applicable):	DATE: 7-23-/3	
COMPLIANCE AREA ASSIGNMENT: ESE Hydrographic Area: 2/2			
☐ Highway	Other/MISC.		

DCP 01

Rev. 2/20/2013

#### **CLARK COUNTY • DEPARTMENT OF AIR QUALITY**

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231 (702) 455-5942 • Fax (702) 383-9994

DUST MITIGATION PLAN FOR ALL PROJECTS
Project Name: Titanium Metal Corporation - Northwest / Beta Ditch Excavation
Permittee Name: Envirocon Inc.
Identify the Project Soil "Particulate Emission Potential" (check all that apply):
Using silt and optimum moisture content to determine the particulate emission potential (PEP) is the preferred method.
PEP determined using generalized PEP determination maps included in the Dust Control Handbook.
PEP determined using silt vs. optimum moisture table in Figure 2 of the Dust Control Handbook.
Percentage of silt through a #200 sieve:% Optimum moisture content:%
PEP for this project is determined to be:
☐ High ☐ Moderate High ☑ Moderate Low ☐ Low
Water source: ☑ Hydrant with Jones Valve ☐ Fire hose ☑ Water trucks/pulls ☐ Well ☑ Stand tanks ☐ Ponds ☐ Other:
PROJECT ACTIVITIES CHECKLIST
Place a check mark in the box to the right of each Project Activity that will occur on your project. If additional soil disturbing activities that are not on the checklist are to be included in the project, list them on a separate page and provide a description. For a more complete description of the listed activities, see the Control Measures Selection Pages (Form DCP 03) that follow or refer to the Best Management Practices for dust control in the Dust Control Handbook.  BMP 10 Disturbed Soil and BMP 20 Trackout Prevention and Cleanup must be marked for every Dust Mitigation Plan.
CONTROL MEASURES SELECTION PAGES
Instructions:  For each project activity that you have selected on the Project Activities Checklist you must include the corresponding Control Measures Selection Page. Read and understand each item listed as a "Requirement" on these included pages. Where control measure options are listed, place a check in the box in front of the control measure you will use to meet that requirement. You must select at least one control measure where a choice is listed. In addition you must select the control measure that corresponds to your PEP as listed above, if applicable.
NOTE: PROJECTS 10 ACRES AND LARGER MUST COMPLETE A SUPPLEMENT TO THE DUST MITIGARTION PLAN (APPENDIX B-1 AND B-2).



# Clark County Nevada Supplement to the Dust Mitigation Plan

TIMET BETA DITCH HENDERSON, NEVADA

Prepared for: Clark County Dept. of Air Quality 4701 W. Russell Rd. Suite 200 Las Vegas, NV 89118-2231 (702) 455-5942 Prepared by: Envirocon, Inc. 651 Corporate Circle Suite 114 Golden, CO 80401 (303) 215-0187

June 12, 2013



## **DUST PLAN SUPPLEMENT**

## **TABLE OF CONTENTS**

A.	Project Description1
В.	Site Plan1
C.	Additional Explanation of Control Measures1
D.	Contingency Measures2
Ε.	Soil Stabilization Measures2
F.	Employee Dust Control Training and Compliance3
G.	Plan Aproval and Authority4
Н.	Figures5



#### A. PROJECT DESCRIPTION

This project consists of the removal of 79,299 BCY of impacted soil from several drainage ditches at the Timet Property. As a portion of each ditch is remediated, it will be backfilled with clean soil, and graded to include a storm water basin and drain at the same areas the ditches currently drain. It is anticipated that 81,941 BCY of backfill will be required to achieve the final grade. The actual removal ditches are approximately 5 Acres in size. However, with the creation of parking and laydown areas, haul roads, and storm water controls, the total site disturbance may reach 14 Acres.

Envirocon intends to mobilize to the Site June 17<sup>th</sup> and the project will be complete by August 26<sup>th</sup>. Please see the attached GANNT Chart in Figure 1 for a detailed construction schedule. The total budget for dust control activities is approximately \$55,000. Please note that the cost for the water for the dust control activities is not in this number as it is being provided free of charge to Envirocon by the site owner, Titanium Metal Inc. during construction.

#### B. SITE PLAN

The project has been divided into six remedial zones, each consisting of three phases of operations. The first phase for each remedial zone is to install shoring for the excavation. The second phase of operation for each zone is excavation. The final stage is backfill and finish grading. It is important to note that these operations occur concurrently once each operation is sufficiently out in front of the next dependent operation. The construction GANNT Chart presented as Figure 1 indicates the following durations for these construction sequences:

• Shoring Installation & Removal: 42 Work Days

• Excavation: 44 Work Days

• Backfill and Final grading: 39 Work Days

The location of the haul routes, construction zones, and the construction trailers have been provided on Figure 2, Site Layout. Figure 2 also indicates the location of the wheel wash exit point for haul traffic as well as the water tank location and the areas to receive dust palliative at project completion.

#### C. ADDITIONAL EXPLANATION OF CONTROL MEASURES

Envirocon intends to utilize a water wagon with operator during active site work (10 to 12 hours per day), every day during the project to control dust at the Site. To adequately suppress dust, Envirocon will utilize the following means:

1. The onsite haul roads will be constructed with base course aggregate. A water wagon will then add water to the routes as needed to prevent dust, but not so much water as to create mud.



- 2. Haul traffic will heed a speed limit of 10 MPH.
- 3. The water wagon will also supply water to active excavation and backfill location and wet those areas to suppress the dust. Presoaking may occur at the removal areas, but not to the extent they pose a hazard to the shoring installation. Palliatives may be added as necessary to suppress the dust on backfilled soil areas.
- 4. A dedicated fire hydrant and drop tank will be at the site to ensure sufficient water is always available to expediently fill the water wagon.
- 5. Excavation personnel will load trucks in a manner that minimizes the drop height of soils to the extent practical.
- 6. Haul vehicles will tarp their loads.
- 7. A wheel wash will be utilized to prevent the offsite tracking of material. By using this wheel wash system, Envirocon does not anticipate the need for street sweeping. Should soil be tracked offsite onto a public road, it will be removed via street sweeper. Please see Figure 3 for the information sheet on the project wheel wash system.

#### D. CONTINGENCY MEASURES

Dust control measures will be monitored by several entities at the Site. The oversight Engineer, GEI Consultants and the Owner, Titanium Metals Inc. will also be monitoring dust in addition to monitoring performed by Envirocon's Dust Card qualified Superintendent and Dust Card qualified water wagon operators, and the Envirocon H&S officer. Given the impacts at the site, extensive monitoring beyond visible monitoring will occur, including the use of real-time particulate monitors. These monitors provide quantitative particulate data, beyond the qualitative data obtained from visual observation, and will be utilized to ensure the dust control measures are effective, and can be utilized to alert personnel to dust control deficiencies. Additionally, some personnel monitoring will occur, utilizing lapel time weighted monitors located within the breathing zone of high risk operators at the site. The results of these air samples will assist in determining if the dust control measures are effective. Should dust become problematic, the two approaches Envirocon intends to utilize to get the dust back under control are to add more water and add additional dust palliatives. Operations may need to be slowed until these two operations can get the dust controlled. Additional water addition may occur during non-working hours by the water wagon operator to add additional pre-soaking to the regimen.

#### E. SOIL STABILIZATION MEASURES

Prior to and during the active excavation / loading of transport trucks, water will be applied using the water wagon as mentioned above. If the soils encountered require further dust control measures based off particulate monitoring and/or the Site Superintendent, a dust palliative may be used. Envirocon will utilize DustGuard<sup>TM</sup> for a dust palliative should straight water not accomplish the proper dust control. DustGuard<sup>TM</sup> is an eco-friendly co-polymer soil binding product used nation-wide for erosion and dust control for a wide array of applications. This



product will also be utilized as the final soil stabilization product for the Beta Ditch Excavation Project.

DustGuard<sup>TM</sup> has a wide range of application rates, depending on soil types, expected traffic, and duration of protection requested. Should stockpiles of soils need to be left in place for an extended period of time, this dust palliative will be applied as a capping agent at 50 gallons per acre (30 gallons water to 1 gallon DustGuard<sup>TM</sup>). At project completion, the final surfaces will be capped with a stronger solution of dust palliative at 100 gallons per acre (25 gallons water to 1 gallon DustGuard<sup>TM</sup>). These solutions will be mixed and applied utilizing the onsite water wagon.

Although all areas requiring final stabilization are expected to be non-traffic areas, the application rate Envirocon plans to use will allow for light traffic without reapplication for 1 year. All inspections and documentation will be performed in accordance with the Clark County Dust Permit and as stated below.

See Figure 4 for the Data Sheet, MSDS, and Application Manual for DustGuard™.

#### F. EMPLOYEE DUST CONTROL TRAINING AND COMPLIANCE

Envirocon's Superintendent for this project has obtained a Clark County dust card. The superintendent is Mr. Richard Whitman, (801) 450-9667. Mr. Whitman will direct all field personnel, including operators, laborers, and drivers. Mr. Whitman will complete the Form attached as Figure 5 along with his Daily Activity log to document the dust control activities. Once the water wagon operators have been identified for this project, those drivers will also obtain training and their Dust Cards from the Clark County Air Quality Department.

In addition to the Superintendent, Envirocon will have a full time Project Manager (PM) on Site. The Envirocon PM has full authority for the project. This means that the PM can stop operations, direct new operations, and is the person responsible for addressing any violations. Mr. Steve Peterson (970) 201-2335 has been identified as the Site Project Manager.

Further, Envirocon utilizes Health and Safety Officers, who are independent of operational personnel. They report to the Corporate Health and Safety Manager, Mr. Joe Ocken. The HSO, has the authority to stop work, as do all individuals at Envirocon if they find an unsafe condition. The HSO's perform personnel monitoring, and other monitoring, such as air quality monitoring with the real-time particulate monitors. The HSO also maintains the Site personnel training records. At this Site, all personnel must have HAZWOPER training, and so the dust training certificates received by personnel will also be maintained onsite by the HSO. If the HSO identifies non-compliance with the dust policies, the HSO will direct the PM to correct the



situation. If the PM does not adequately address the problem, the HSO can then get a remedy via the Corporate Health and Safety chain of command. The HSO has not yet been identified for this project.

G.	PL.	ΔN	APR	OVAL	AND	<b>AUTHO</b>	RITY
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This plan is approved for implementation at the Timet Project.

aland. Brell	June 12, 2013
Alan Buell, Project Director	Date



## **PROJECT ACTIVITIES CHECKLIST**

Project Name:	Titanium Metal Corporation - Northwest / Beta Ditch Excavation
Permittee Name:	Envirocon Inc.

PLACE A CHECK MARK NEXT TO EVERY ACTIVITY THAT WILL BE CONDUCTED ON THIS SITE, FOR EACH CHECKED ACTIVITY COMPLETE THE CORRESPONDING CONTROL MEASURES SELECTION PAGE AND INCLUDE WITH APPLICATIO

ACTIV	ITY COMPLETE THE CORRESPONDING CONTROL MEASURES SELECTION PAGE AND INCLUDE WITH API	Check All
BMP	Project Activity	That Apply
01	Backfilling Filling area previously excavated or trenched.	<b>✓</b>
02	Blasting - Abrasive	<u> </u>
	Sandblasting and/or abrasive blasting.	
03	Blasting Soil & Rock	
	Explosive blasting of soil and rock.	
04	Clearing & Grubbing	
	Clearing and grubbing for site preparation and vacant land cleanup.	
05	Clearing Forms, Foundations and Slabs	
00	Clearing and cleaning of forms, foundations and slabs prior to pouring concrete.	
06	Crushing Crushing of construction and demolition debris, rock and soil.	
07	Cut and/or Fill	
"	Cut and/or fill soils for site grade preparation.	
08	Demolition - Implosion	
	Implosive demolition of a structure, using explosives.	
09	Demolition - Mechanical/Manual	
	Mechanical and manual demolition of walls, stucco, concrete, freestanding structures, buildings, load-bearing walls and/or	
	removal of transit pipe	
10	Disturbed Soil THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS	
11	Disturbed soil throughout project including between structures.	<del>                                     </del>
11	Disturbed Land - Long Term Stabilization Large tracts of disturbed land that will not have continuing activity for more than 30 days.	
12	Dust Suppressants - Selection and Use	
	Selection and use of chemical and organic dust suppressing agents and other dust palliatives.	
13	Importing/Exporting Materials	
	Importing or exporting of soil, aggregate, decorative rock, debris, Type II and other bulk material.	
14	Landscaping	
	Installation of sod, decorative rock, desert or other landscape material.	<del>                                     </del>
15	Paving/Subgrade Preparation Subgrade preparation for paving streets, parking lots, etc.	
16	Sawing/Cutting Material	<del>                                     </del>
'	Sawing or cutting materials such as concrete, asphalt, block or pipe.	
17	Screening	
''	Screening of rock, soil or construction debris.	
18	Staging Areas	
	Staging areas, equipment storage, vehicle parking lots, and material storage areas.	
19	Stockpiles	
	Stockpiling of materials, such as Type II, other soils, rock or debris, for future use or export.	
20	Trackout Prevention and Cleanup THIS ACTIVITY MUST BE SELECTED FOR ALL PROJECTS Prevention and cleanup of mud, silt and soil tracked out onto paved roads.	
21	Traffic - Unpaved Routes and Parking	
~ '	Construction related traffic on unpaved interior and/or access roads and unpaved employee/worker parking areas.	
22	Trenching	
	Trenching with track or wheel mounted excavator, shovel, backhoe or trencher.	
23	Truck Loading	
	Loading trucks with materials including construction and demolition debris, rock and soil.	<b>8</b>

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

BACKFILLING BMP 01				
OU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.				
Requiremen	t: Stabilize backfill material when not actively handling.			
<b>1</b> 01-1	Water backfill material to maintain moisture or to form crust when not actively handling.			
□ 01-2	Apply and maintain a dust palliative to backfill material to form crust when not actively handling.			
□ 01-3	Cover or enclose backfill material when not actively handling.			
Requiremen	t: Stabilize backfill material during handling.			
□ 01-4	Empty loader bucket slowly and minimize drop height from loader bucket.			
<b>☑</b> 01-5	Dedicate water truck or large hose to backfilling equipment and apply water as needed.			
	ect at least one of the above; in addition the appropriate control asure for your soil type must be selected from the following.			
<b>01-6</b>	L: Mix moist soil with dry soil until the optimum moisture is reached.			
<b>2</b> 01-7	ML: Apply and mix water into the backfill material until optimum moisture is reached.			
01-8	MH: Apply and mix water and tackifier solution into the backfill material until optimum moisture is reached.			
<u> </u>	H: Apply and mix water and surfactant solution into the backfill material until optimum moisture is reached.			
Requiremen	t: Stabilize soil at completion of backfilling activity.			
<u> </u>	Apply water and maintain disturbed soils in a stable condition until permanent stabilization is complete.			
<b>✓</b> 01-11	Apply and maintain a dust palliative on disturbed soils to form a crust following backfilling activity.			
Requiremen	t: Stabilize material while using pipe padder equipment.			
<b>01-12</b>	Mix moist soil with dry soil until the optimum moisture is reached.			
<b>2</b> 01-13	Dedicate water truck or large hose to equipment and apply water as needed.			

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

## **CLEARING AND GRUBBING**

**BMP 04** 

YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.
PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.

PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.	
Requiremer	nt: Stabilize surface soils where support equipment and vehicles will operate.
<b>☑</b> 04-1	Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.
□ 04-2	Apply and maintain a dust palliative on surface soils where support equipment and vehicles will operate.
Requiremen	nt: Stabilize soil during clearing and grubbing activities.
<b>✓</b> 04-3	L & ML: Apply water during clearing and grubbing activities.
□ 04-4	<b>MH:</b> Apply water and tackifier mixture during clearing and grubbing activities.
□ 04-5	H: Apply water and surfactant mixture during clearing and grubbing activities.
Requirement: Stabilize disturbed soil immediately after clearing and grubbing activities.	
<b>✓</b> 04-6	Water disturbed soils to form crust immediately following clearing and grubbing activities.
□ 04-7	Apply and maintain a dust palliative on disturbed soils to form crust immediately following clearing and grubbing activities.
Recommend	lations: Maintain live perennial vegetation and desert pavement where possible.
	MP 11: DISTURBED LAND – Long-Term Stabilization, if no ntinuing activity will occur within 30 days.

Titanium Metal Corporation - Northwest / Beta Ditch Excavation			
CUT AND FILL BMP 07			
YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.			
Requiremen	t: Stabilize surface soils where support equipment and vehicles will operate.		
<b>☑</b> 07-1	Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.		
□ 07-2	Apply and maintain a dust palliative to surface soils where support equipment and vehicles will operate.		
Requiremen	t: Pre-water soils.		
□ 07-3	Dig a test hole to depth of cut or equipment penetration to determine if soils are moist at depth. Continue to pre-water if not moist to depth of cut.		
□ 07-4	<b>L &amp; ML:</b> Pre-water with sprinklers or wobblers to allow time for penetration.		
<b>☑</b> 07-5	<b>L &amp; ML</b> : Pre-water with water trucks or water pulls to allow time for penetration.		
□ 07-6	<b>MH:</b> Pre-water with a water and tackifier mixture using sprinklers or wobblers to allow time for penetration.		
□ 07-7	<b>MH:</b> Pre-water with a water and tackifier mixture using water trucks or water pulls to allow time for penetration.		
□ 07-8	H: Pre-water with a water and surfactant mixture using sprinklers or wobblers to allow time for penetration.		
□ 07-9	H: Pre-water with a water and surfactant mixture using water trucks or water pulls to allow time for penetration.		
Requiremen	t: Stabilize soil during cut activities.		
<b>✓</b> 07-10	Apply water, using water truck or water pull, to depth of cut prior to subsequent cuts.		
□ 07-11	No cut activities fill only.		
Requiremen	t: Stabilize soil after cut and fill activities.		
□ 07-12	Water disturbed soils to form crust following fill and compaction.		
<b>☑</b> 07-13	Apply and maintain a dust palliative on disturbed soils to form crust following fill and compaction.		
See also:	BMP 11: DISTURBED LAND - Long-Term Stabilization if no		

continuing activity will occur within 30 days.

Titanium Metal C	Corporation - Northwest / Beta Ditch Excavation		
DISTURBED	SOIL BMP 10		
YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.			
Requireme	nt: For each non-linear project to be permitted for 5 acres or less; install perimeter wind barrier 3 feet or more in height made of material with a porosity of 50% or less.		
Requiremen	nt: Limit vehicle traffic and disturbance of soils where possible.		
<b>1</b> 0-1	Limit vehicle traffic and disturbance of soils with the use of fencing, barriers, barricades, and/or wind barriers.		
Requireme	nt: Stabilize and maintain stability of all disturbed soil throughout construction site.		
Note: You n	nust choose one or more of the following.		
<b>✓</b> 10-2	Apply water to stabilize disturbed soils. Soils must be kept in a sufficiently damp, crusted or covered condition.		
<u> </u>	Apply and maintain a dust palliative based on soil type and future plans.		
Requireme	nt: Soil conditions, including preventive and corrective measures, must be recorded every day the construction project is active.		
<b>1</b> 0-4	Record soil conditions and dust control actions in daily project records.		
Recommend	dations: If interior block walls are planned, install as early in the construction as possible.		

See also: BMP 11: DISTURBED LAND – Long-Term Stabilization, if no continuing activity will occur within 30 days.

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

## OUST PALLIATIVE – Selection and Use YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.

Requirement: Follow AQD "Interim Policy on Dust Palliatives Use In Clark County, Nevada".

Requirement: Record use of suppressants and dust palliatives and retain records.

Requirement: Follow applicable federal and state regulations.

Requirement: Select method of long-term stabilization taking into consideration future land use.

- ☐ 12-1 For traffic area applications use Table 1: Traffic Area Application Requirements, Appropriate Use of Liquid Dust Palliatives and Application Rates, from the Interim Policy on Dust Palliatives Use In Clark County, Nevada.
- ✓ 12-2 For non-traffic area applications use Table 2: Non-Traffic Area Application Requirements, Appropriate Use of Liquid Dust Palliatives and Application Rates, from the Interim Policy on Dust Palliatives Use In Clark County, Nevada.

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

IMPORTING/EXPORTING SOIL, ROCK AND OTHER BULK MATERIAL	BMP 13
YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REC PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION	
Requirement: Limit visible dust opacity from vehicular operations.	
✓ 13-1 Apply water and limit vehicle speeds to 15 mph on the work s	site.
☐ 13-2 Apply and maintain dust suppressant on haul routes.	
Requirement: Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage.	y
Requirement: Maintain 3-6 inches of freeboard to minimize spillage.	
Requirement: Stabilize materials during transport on site.	
✓ 13-3 Use tarps or other suitable enclosures on haul trucks.	
13-4 Stabilize materials with water.	
Requirement: Clean wheels and undercarriage of h aul trucks price leaving construction site.	or to
Recommendations: Verify State and local laws, concerning the hauling of the materials on public roadways.	oulk
See also: BMP 20: TRACKOUT PREVENTION AND CLEANUP.	
BMP 23: TRUCK LOADING.	

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

STAGING AREAS BMP 18		
	CT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. E A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.	
_ <del></del>	t: Limit visible dust opacity from vehicular operations. Limit vehicle speeds to 15 mph in the staging area and on all unpaved access routes.	
<u> </u>	Apply and maintain dust suppressant on all vehicle traffic areas in the staging areas and unpaved access routes.	
Requiremen	t: Stabilize staging area soils during use.	
<b>✓</b> 18-3	Pre-water and maintain surface soils in a stabilized condition where support equipment and vehicles will operate.	
<u> </u>	Apply and maintain a dust palliative to surface soils where support equipment and vehicles will be operated.	
Requiremen	t: Stabilize staging area soils at project completion.	
<b>✓</b> 18-5	Apply a dust palliative.	
☐ 18-6	Apply screened or washed Type II aggregate.	
<u> </u>	Use wind breaks in accordance with a site-specific plan approved by the Control Officer and Region IX Administrator of the EPA.	
<u> </u>	Pave with thin paving.	
□ 18-9	Completed project will cover staging area with buildings, paving, and/or landscaping.	
<u> </u>	Apply water to form adequate crust and prevent access.	
Recommend	ations: Limit size of staging areas.	
	Limit ingress and egress points.	

See also: BMP 20: TRACKOUT PREVENTION AND CLEANUP

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

## TRACKOUT PREVENTION AND CLEANUP **BMP 20** YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION. Requirement: In soils that have a PEP classification of "High", pave construction activities roadways as early as possible. Requirement: Use of soil to create a ramp for vehicle access over a curb is prohibited. Requirement: Trackout conditions, including preventive and corrective measures, must be recorded daily for every day that the construction project access is used by vehicles. **√** 20-1 Record soil conditions and dust control actions in daily project records. Requirement: Prevent dust from trackout. 20-2 Immediately clean trackout from paved surfaces to maintain dust control. Trackout must not extend 50 feet or more. Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day. Trackout must not extend 50 feet or more and must be cleaned daily, at minimum. Requirement: Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect. Install gravel pad(s) consisting of 1" to 3" rough diameter, clean, 20-4 well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness. 20-5 Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness. **✓** 20-6 Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness. Install wheel shakers in the event that trackout cannot be controlled 20-7 with gravel pads. 20-8 Install wheel washer in the event that trackout cannot be controlled with gravel pads and wheel shakers.

(Continued on next page)

20-9 Motorized vehicles will only operate on paved surfaces.

Requirement: All exiting traffic must be routed over selected trackout control device(s).	
<b>✓</b> 20-10	Clearly establish and enforce traffic patterns to route traffic over selected trackout control device(s).
<b>20-11</b>	Limit site accessibility to routes with trackout control devices in place by installing effective barriers on unprotected routes.

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

TRAFFIC – Unpaved Routes and Parking Areas

PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.

BMP 21

BMP 21

Requirement: Limit visible dust opacity from vehicular operations.	
<u>√</u> 21-1	Limit vehicle speeds to 15 mph on all unpaved routes and parking
21-2	areas.  Apply and maintain dust palliative on all vehicle travel areas.
Requirement: Stabilize all haul routes.	
<b>21-3</b>	Apply water to haul routes and maintain in a stabilized condition.
<u>21-4</u>	Apply a dust palliative to haul routes and maintain in a stabilized condition.
<b>✓</b> 21-5	Apply gravel to haul routes and maintain in a stabilized condition.
<u> </u>	Supplement dust palliative or aggregate applications with watering, if necessary.
Requiremen	t: Stabilize all off-road and parking areas.
<u> </u>	Apply water to off-road traffic and parking areas and maintain in a stabilized condition.
<b>✓</b> 21-8	Apply gravel to off-road traffic and parking areas and maintain in a stabilized condition.
<u>21-9</u>	Apply recycled asphalt (or other suitable material) to off-road traffic and parking areas and maintain in a stabilized condition.
<u> </u>	Apply and maintain a dust palliative (designed for vehicle traffic) to off-road traffic and parking areas and maintain in a stabilized condition.
Recommendations: Use of bumps or dips for speed control is encouraged.	
	Apply paving as soon as possible to all future roadway areas for PEP categories other than "High".

Titanium Metal Corporation - Northwest / Beta Ditch Excavation

RUCK LOA	DING BMP 23	
U MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT.		
PLAC	CE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION.	
Requirement: Ensure all loads are covered prior to leaving the construction site and traveling on public roadways.		
Requirement: Stabilize surface soils where loaders, support equipment and vehicles will operate.		
<b>☑</b> 23-1	Pre-water and maintain surface soils in a stabilized condition where loaders, support equipment and vehicles will operate.	
□ 23-2	Apply and maintain a dust palliative on surface soils where loaders, support equipment and vehicles will operate.	
Requirement: Stabilize material during loading.		
<b>✓</b> 23-3	Empty loader bucket slowly and keep loader bucket close to the truck to minimize the drop height while dumping.	
Note: You must selected 23-3 if PEP is greater than LOW, in addition one of the following must be selected.		
<b>✓</b> 23-4	L & ML: Mix material with water prior to loading.	
<b>23-5</b>	L & ML: Spray material with water while loading.	
<b>23-6</b>	MH: Mix material with a water and tackifier mixture prior to loading.	
<b>23-7</b>	MH: Spray material with a water and tackifier mixture while loading.	
<b>23-8</b>	H: Mix material with a water and surfactant mixture prior to loading.	
23-9	H: Spray material with a water and surfactant mixture while loading.	



Def 42498 - 14.0 Avos 6/19/13



# **Department of Air Quality**

4701 W. Russell Rd. - Suite 200 - 2nd Floor Las Vegas, NV - 89118 Main Number : (702) 455-5942 Fax Number : (702) 383-9994

\*42498-1-1\*

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

# DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: PAYMENT INFORMATION: 000879

42498 Mod: 1 Fee: \$33.40

### Permittee and Project Information

Permittee: Environcon Inc.

Permittee Address: 651 Corporate Circle Suite 114

City, State, Zip: Golden CO 80401 Fax No.:: 3032150182

Project Name: Titanium Metal Corporation - Northwest/Beta Ditch Excavation

Project Address: 181 North Water Street

Located In: Township: 22 Range: 62 Section: 12 EO Area: ESE

Acreage This Mod: **0** Total Acreage: **14** 

Cross Streets: West Warm Springs Road & N. Boulder Highway

### Project Contact(s)

Normal Hours: Richard Whitman After Hours: Steve Peterson
Company: Environcon Inc. Company: Environcon Inc.
Phone: (801)450-9667 Phone: (970)201-2335

Issue Date:	10-Sep-2013	Expiration D	ate: 25-Jul-2014
Notes			Request Of Sign Waiver
Adding BMP 20			Public Works Agreement
J			○ Closure Plan
			Ocnditional Renewal

# **DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK**

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.



### **CLARK COUNTY • DEPARTMENT OF AIR QUALITY**

4701 W Russell Rd , Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231 (702) 455-5942 • Fax (702) 383-9994

Mod DI

For DAQ Use Only Invoice Number RECEIVED CC-DAG: -

7013 SEP -Ь Р 1: 28

# APPLICATION FOR DUST CONTROL PERMIT MODIFICATION

	Submit applicable fee per Section 18 of the Air Quality Regulations
1.	PERMIT INFORMATION: Permit Number: 42498-0-1
	Applicant/Permittee: FNUTRO CON JNC
	Project Name: TITANTUM METALS CORP. NORTHWEST / BETA DITCH EXCAMATION
	Email Address: Speresson @ emiloco
2.	IS MODIFICATION REQUESTED AS A RESULT OF A NOTICE (NON/CSI)? Yes Modification Requested As a result of a notice (non/csi)?
3.	INFORMATION TO BE MODIFIED:  Control Measures:
	Attach Control Measure Selection Pages (DCP03) for all modifications.
	☐ Project Acreage:
	Acreage to be added:  Acreage to be removed:  Attach a revised Assessor's Parcel Map showing the originally permitted area and the area to be added/removed.
	Supplemental Forms:  Blasting Demolition Portable Source: List permit number and/or company.  Attach Supplemental forms and Control Measure Selection Pages.  Other:  ADDING BMP 20-4
	Attach modifications and/or current information.
4.	SUBMITTED BY:
	Signature STEVEN J. PETEUSON Print Name
	Signature Print Name  ENVIROCON INC. PROJECT MANAGER
	Company Name/ Hite
	970 201 2335 9/6/2013
5.	ARPROVED BY:  DAQ Permitting Approval  Date  Date
	DAQ Asbestos/Removal Approval Date

MODIFICATIONS SUBMITTED ON THIS FORM DO NOT CHANGE THE EXPIRATION DATE OF THE PERMIT.

ACREAGE ADDED WILL EXPIRE ON THE SAME DATE AS THE CURRENT PERMIT EXPIRATION.

# TRACKOUT PREVENTION AND CLEANUP **BMP 20** YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION. Requirement: In soils that have a PEP classification of "High", pave construction activities roadways as early as possible. Requirement: Use of soil to create a ramp for vehicle access over a curb is prohibited. Requirement: Trackout conditions, including preventive and corrective measures, must be recorded daily for every day that the construction project access is used by vehicles. 4 20-1 Record soil conditions and dust control actions in daily project records. Requirement: Prevent dust from trackout. 20-2 Immediately clean trackout from paved surfaces to maintain dust control. Trackout must not extend 50 feet or more. 20-3 Maintain dust control during working hours and clean trackout from paved surfaces at the end of the work shift/day. Trackout must not extend 50 feet or more and must be cleaned daily, at minimum. Requirement: Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect. Install gravel pad(s) consisting of 1" to 3" rough diameter, clean, well-graded gravel or crushed rock. Minimum dimensions must be 30 feet wide by 3 inches deep, and, at minimum, 50' or the length of the longest haul truck, whichever is greater. Re-screen, wash or apply additional rock in gravel pad to maintain effectiveness. 20-5 Install wheel shakers. Clean wheel shakers on a regular basis to maintain effectiveness. M 20-6 Install wheel washers. Maintain wheel washers on a regular basis to maintain effectiveness. 20-7 Install wheel shakers in the event that trackout cannot be controlled with gravel pads. 20-8 Install wheel washer in the event that trackout cannot be controlled with gravel pads and wheel shakers. 20-9 Motorized vehicles will only operate on paved surfaces.

(Continued on next page)



# **Department of Air Quality**

4701 W. Russell Rd. - Suite 200 - 2nd Floor Las Vegas, NV - 89118 Main Number : (702) 455-5942 Fax Number : (702) 383-9994

\*42498-2-1\*

CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

# DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

THIS PERMIT DOES NOT EXEMPT THE PERMITTEE FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT

Permit Number: PAYMENT INFORMATION: 001036

42498 Mod: 2 Fee: \$180.40

### Permittee and Project Information

Permittee: Environcon Inc.

Permittee Address: 651 Corporate Circle Suite 114

City, State, Zip: Golden CO 80401 Fax No.:: 3032150182

Project Name: Titanium Metal Corporation - Northwest/Beta Ditch Excavation

Project Address: 181 North Water Street

Located In: Township: 22 Range: 62 Section: 12 EO Area: ESE

Acreage This Mod: 1 Total Acreage: 15

Cross Streets: West Warm Springs Road & N. Boulder Highway

### Project Contact(s)

Normal Hours: Richard Whitman After Hours: Steve Peterson
Company: Environcon Inc.
Phone: (801)450-9667 Company: Environcon Inc.
Phone: (970)201-2335

Issue Date:	01-Oct-2013	Expiration D	Pate: 25-Jul-2014
Notes			O Request Of Sign Waiver
Add acreage			Public Works Agreement
			○ Closure Plan
			O Conditional Renewal

# **DUST CONTROL MEASURES MUST OCCUR 24 HOURS A DAY, 7 DAYS A WEEK**

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice. This condition must be stated on each application form and operating permit. NRS 445B.580.



**CLARK COUNTY • DEPARTMENT OF AIR QUALITY** 

RECEIVED CC-DAQ

| OO DAG

701R SEP 20 P 2: 19

For DAQ Use Only

Invoice Number:

4701 W. Russell Rd., Suite 200 • 2nd Floor • Las Vegas, NV 89118-2231 (702) 455-5942 • Fax (702) 383-9994

APPLICATION FOR DUST CONTROL PERMIT MODIFICATION Submit applicable fee per Section 18 of the Air Quality Regulations Permit Number: 42498 - 0 - 1 1. PERMIT INFORMATION: Applicant/Permittee: ENVILOCON INC Project Name: NERT EAST END OF RETA DITCH Email Address: ASImmons & ENVIROCON. COM 2. IS MODIFICATION REQUESTED AS A RESULT OF A NOTICE (NON/CSI)? Yes No 3. INFORMATION TO BE MODIFIED: Control Measures: Attach Control Measure Selection Pages (DCP03) for all modifications. Project Acreage: Acreage to be added: Acreage to be removed: Attach a revised Assessor's Parcel Map showing the originally permitted area and the area to be added/removed. ■ Supplemental Forms: ☐ Blasting ☐ Demolition ☐ Portable Source: List permit number and/or company. Attach Supplemental forms and Control Measure Selection Pages. X Other: 1781280100P Attach modifications and/or current information. 4. SUBMITTED BY: Signature PROJECT ENUTROCON Company Name/Title 970) 201 - 233 Phone Number Date Date DAQ Asbestos/Removal Approval

MODIFICATIONS SUBMITTED ON THIS FORM DO NOT CHANGE THE EXPIRATION DATE OF THE PERMIT.

ACREAGE ADDED WILL EXPIRE ON THE SAME DATE AS THE CURRENT PERMIT EXPIRATION.



# NERT - East of Beta Ditch Parcel Map & Area Delineation



AFG) 9/26/13





# PERMIT CLOSURE CERTIFICATE OF PROJECT COMPLETION

Submit completed form to DAQ or FAX to (702) 383-9994

	Submit completed form to DAQ of FAX to (702) 363-9994				
1.	PERMIT INFORMATION:				
	Permit Number: 42498 Mod.2 Project Name: Timet - NW/Beta Ditch Excavation				
	Applicant/Permittee: Envirocon Inc.				
	Project Address/Location: 181 North Water Street				
2.	CLOSURE INFORMATION:				
	Permittee Statement				
	By submitting this form I verify no further soil disturbing construction activities will occur at the above referenced location. All project soils designated in the Dust Control Permit have been permanently stabilized by the following method(s) (Check all that apply):  Permitted area built out – no disturbed soil areas remain.  Application of ground cover / dust palliative.  <1/4 acre disturbed soil remains. Dust Control Permit #: has replaced this permit for any remaining disturbed areas.				
	I further verify I have inspected the site for the following items, with the results indicated:  Unpaved roads or easements are remaining on or accessing the permitted site.   Yes No Unpaved areas remain on the site that could be used for parking or storage lots.				
	Print Name: Andrew N. Simmons Date: 10/18/2013				
	Send me this form upon completion of inspection. ✓ Yes □ No, if yes FAX #:				
	or Email address asimmons@envirocon.com				
1Q	use only				
In	spection Results				
	e any unpaved roads, easements or parking/storage lots on the permitted site? 🂢 Yes 🗌 No				
Ar	inspection by a DAQ Enforcement Officer has been performed with the following results:				
	Construction has ceased and the entire site has been adequately treated for long-term stabilization (PASS)				
	Construction has ceased, but the site has not been adequately treated for long-term stabilization in certain areas (FAIL)				
	Construction has ceased, but the site has not been adequately treated for long-term				
	stabilization (FAIL)  This project will require an ATC/OP for the following equipment:				
	This permit replaced with permit(s) #				
No	otes: Project complete				
	1,00				
En	nforcement Officer: Whitney Frances Date: 10/22/13				
Rev	v by				

WILL HAND DELIVER THIS AFTERNOON



### DEPARTMENT OF AIR QUALITY & ENVIRONMENTAL MANAGEMENT

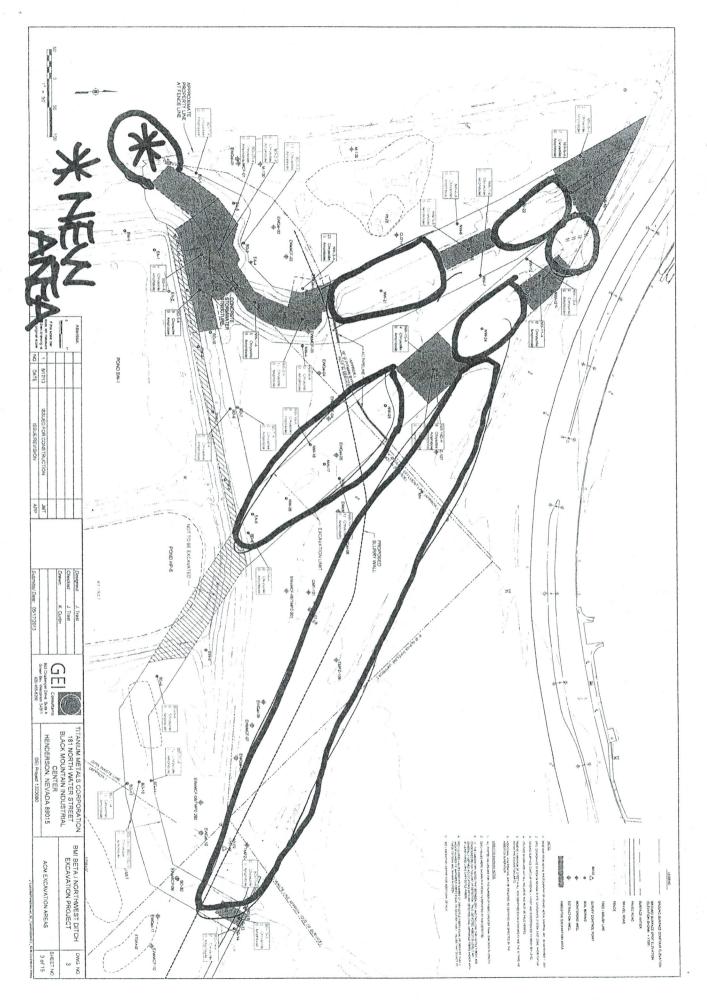
500 S. Grand Central Pkwy 1<sup>st</sup> FI • PO Box 555210 • Las Vegas, Nevada 89155-5210 Office (702) 455-5942 • Fax (702) 383-9994

# NESHAP NOTIFICATION OF ASBESTOS ABATEMENT

Operator Project # _		Project Numb	per: 130352	
1. Type of Notification:	Revision # 6			
2. Facility Information: Owner's Name:	Titanium Metals Corp.			
Owner's Address:	PO Box 2128			
	Henderson		State: NV	Zip Code: 89009
Contact Person:	Alan Buell	,		
Office Number:	(702) 564-2544	Cellular Number:	(406) 689-2012	Fax: <u>(702)</u> 564-1704
	abuell@envirocon.com			
3. Removal Contractor:	Walker Specialty Cons	struction Inc		
	6428 Windy Road	our doubli, into		
	Las Vegas		State: NV	Zip Code: 89119
	Brett Unbedacht		State. 111	Zip Code
	(702) 243-2500	Cellular Number:	(702) 612-9195	Fax: (702) 243-6052
	melissau@wsclasvega		()	1 ux. (1-1-)
4. Other Operator/Consu Company Name:	GEI Consultants			
Address:	955 Challenger Drive,	Suite A		
	Green Bay		State: WI	Zip Code: 54311
Contact Person:		2		
		Cellular Number:	(813) 404-6688	Fax:
	gonorato@geiconsulta			
5. Type of Operation: Re	enovation		PNR Year:	
6. Description of ACM ty				
Asbestos Containing S Added Asbestos Conta	aining Soil (12,000 Cu Ft)	=t)		
Adding Asbestos Cont	taining Soil (400 Cu Ft)			

7. Facility Description:  Building Name: Time	et				
Building Address: 181	North Water Street				
			State: NV	Zin Code:	89009
Specific Work Location: Beta	Ditch		State.	_ 2ip Code	
		ber of Floors:			
		Prior use:			
8. Procedure Used To Detect I	Presence Of ACM: _F	PLM			
9. Approximate Amounts of As	sbestos:				
Amount RACM		Amount of on-friable ACM		Amount of	
to be remo		o be Removed		non-friable A to Remain	
	Category	Category I		gory I	Category II
Pipe (linear ft.)	-	The second secon			
Surface (sq. ft.)					
<b>∀ Volume (cu. ft.)</b> <u>52,400</u>			•		
Note: This notice must be rev					
		nd amounts of ACM on	a separate sheet	of paper.	
10. Scheduled Dates of Asbes			12		
Start Date: 10/02/13		End Date: _10/08/	13		
11. Expected Hours of Abatem Start Time: 7:30	nent Operation:	End Time: 4:00		PM	
					l
12. Description of work practic		Critical Barriers	missions. Che	ck all that app	y:
3 Stag Decon		Glove Bag			
Maintain Adequately Wet Negative Air Pressure		Amended Water	ra Air Maahina		
Hand removal of non-friab	ole ACM	Number of Negativ Mechanical remov		s <u></u> ✓	
	<b>W</b>	Machines: Excava			
Other Work Practices:			MINTER BOTH MATERIAL CHIES AND HER HAR PROPERTY AND		Name or decision to the resident content that it does
* * *					
13. Waste Transporter:					
Company Name: Werd					
Address: 4660			- NO /		
City: Las V	'egas		State: NV	Zip Code: _	
Contact Person:	CAE 5040 - :				
Office Number: (702)	045-5848 Cel	lular Number:		Fax:	
Fmail address:					

14. Waste Disposal Site:	
Company Name: Apex Landfill	
Address: 13550 North US 93	
City: Apex State: NV Zip Code: 89124	
Contact Person:	
Office Number: _(702) 599-5920	
Email address:	
15. If Demolition ordered by a Government Agency, identify below and attach a copy of the order:	
Agency Name:Address:	
City: State: _select _ Zip Code:	
Contact Person: Cellular Number: Fax: Fax:	
Email address:	
16. Emergency Renovations: Submit a letter by the authorizing agency for the work:	
Date and Time of the Emergency: Date: Time:	
Description of the sudden UNEXPECTED Event:	Pyres/2-s.i-Ontelepolicies
	-
Explanation of how the event caused an unsafe condition:	
17. Description of procedures to be followed in the event that unexpected asbestos is found or previously no	n-
friable asbestos material becomes crumbled, pulverized, or reduced to powder.	
Stop work & notify appropriate agencies	than an a
18. An individual trained in the provisions of the regulation (40 CFR Part 61 Subpart M) will be on site during	this
project and will have evidence that the required training has been accomplished.	
Yes ☑ No □	
CERTIFICATION	
19. I certify that the information contained in this notification (sections 1 through 18) are current and correct.	
19. I certify that the information contained in this notification (sections 1 through 18) are current and correct.  Signature:  Date: 10/02/13	





# SOUTHERN NEVADA HEALTH DISTRICT Permit to Transport Asbestos AUTHORITY: Nevada Administrative Code 444.965-444.976

Permit Number:

ATP13-072204

Expires 01/07/2014

1.	Waste Asbestos Contractor:  Walker Specialty Construction, Inc. 6428 Windy Rd. Las Vegas, NV 89119  NV Contractor License No. (Type): 0047312, A-23  Contact Name: Brett Unbedacht Telephone No. 702-243-2500	2.	Waste Asbestos Generation Site:  TIMET 181 N. Water Street Henderson, NV –89009 Contact Name: Alan Buell Telephone No. 406-698-2012
3.	Werdco Trucking 4660 Flippin St. Las Vegas, NV 89110 NVDOT No.: 811231 License No.: 811231 Contact Name: Alan Buell Telephone No.: 702-645-5848	4.	Waste Disposal/Temporary Storage Site:  Apex Landfill Operated by: Republic Services 13550 North US 93 Apex. NV 89124  Contact Name: Rob Tidwell Telephone No.: 702-423-2128
5.		Com	pletion Date: December 31, 2013
6.	Description(s) of Waste Asbestos for Removal and Dispos Asbestos Containing Soil. (300 Cubic Feet)	sal:	
7. a.	Limitations and Conditions:  This Permit is valid only for above described waste asbestos	gen	erated at the site during the dates specified above, as

a. This Permit is valid only for above described waste asbestos generated at the site during the dates specified above, as amended and/or extended by the Southern Nevada Health District. The generator, and all subcontractors, must operate in accordance with the compliance procedure submitted pursuant to NAC 444.972 as approved and/or amended by the Southern Nevada Health District.

 As required, a Notification of Demolition and Renovation for Asbestos Removal must be submitted to the Clark County Department of Air Quality and Environmental Management.

c. The dates stipulated in Section 5 and the description(s) in Section 6 may be amended by, and at the sole discretion of, the Southern Nevada Health District. Application for such must be made before the ending of the Completion Date above. In no case shall more than two extensions of the start/completion dates be granted.

d. This Permit is granted based on the information provided in the application submitted in accordance with NAC 444.965 through 976, and any supplements approved by the Solid Waste Management Authority, and may be modified by the District if the statutes or regulations upon which the approval is based change, or if a modification is otherwise necessary in the interest of public health and safety, and the environment. Any discrepancies between information contained in the application and the actual operation of the transporter may be grounds for immediate revocation of this Permit and/or appropriate enforcement action. The waste asbestos generator must inform the Southern Nevada Health District of any circumstance(s) which may affect their, or any of their subcontractors', ability to comply with the requirements of this Permit, applicable regulations, or other legal requirements.

Signature: Campbell	Name and Title: Dennis Campbell, R.E.H.S., Environmental Health Manager	Date:  Que ust 2 2513



Applicant Signature

# **Clark County Department of Development Services**

# PERMIT



4701 West Russell Rd • Las Vegas NV 89118 (702) 455-3000

IMPORTANT: Always use the permit number below when	requesting	inspections or information	on concerning this permit.
PERMIT NUMBER PHONE SYSTEM NUMB 10-33981 GD6 13641956 PROJECT NAME BLACK MOUNTAIN INDUSTRIAL PAR	SUB	INTERNET PIN N Ø21231 DIVISION	UMBER ISSUE DA 2/08/11
PARCEL NO: 178-13-501-001 RAN	NGE-TOW	NSHIP-SECTION	62-22-13
SITE ADDRESS: 560 W LAKE MEAD PKWY TENANT NAME: BLACK MOUNTAIN INDUST	TRIAL		TENANT NO:
PROPERTY OWNER: TRONOX L L C CONTRACTOR: LAS VEGAS PAVING CO	ORPORAT	ION	
PERMIT: GRADING 100,001-OR MORE COMMERCIAL COMMERCIAL SHORT GRADING ONLY//NO BUILDING//SCREMEDIATION ONLY UNITS/RMS: 0 SG FOOTAGE: OCCUPANCY: TYPE OF CONST:	DIL	CODE	VEAR: 2006  Ø GAA: no
PMT DETAIL: QTY ITEM  1.00 100,000 + 0  29.00 100,000 + 0	CY.		
FEE SUMMARY PERMIT FEE ZONING PC FEE GRADING PLAN REVIEW-BLD 4:	ED- 32.72 33.27 13.40	PAID PREV .00 .00 413.40	PAID 1332.72 133.27 .00
		TOTAL PAID PAYMENT TYPE NUMBER	1465.99 CHECK 69111
CONDITIONS OF PERMIT  I agree to build according to declared description, approved plans, specifications a construction phase is completed.	and the Clark C	ounty Code. I also agree to call 45	5-3000 for required inspections as each
LICENSED CONTRACTORS DECLARATION  I hereby affirm that I am licensed under the provisions of NRS 624.283			
Contractor Signature			
OWNER-BUILDER DECLARATION  I, as owner of the property upon which I am requesting to build or improve a structure.	ure, and the str	ucture to be built or improved is a re	sidential structure which I intend to occupy
I do not intend to sell said structure or transfer ownership of said structure at leas	st until I occupy	the premises for a period of one ye	ear under NRS 624.031.
not be exempt from license requirement as outlined in NRS 624.031.		2/08/11	PAMELA

Issued By

# CLARK COUNTY DESERT CONSERVATION PROGRAM LAND DISTURBANCE / MITIGATION FEE FORM

Date:

_	<b>OFFI</b>	CIAL	USE	ONLY-	-9
---	-------------	------	-----	-------	----

All project proponents in the permit area are required to submit it to the appropriate local agency. Authorization not be granted by the local agency until this form has accepted as complete. The project proponent is respondent required below and for accurately providing   PROPERTY SITE DESCRIPTION		10-33981	
Assessor's Parcel Number(s):			
Legal Description includes: Township; Ran	the nearest ten acres: 640 ct property. Provide proper ters, railroad tracks, power	ac./sec * 1/64 sec. = te ty address and neares lines or other unique	en acres). This information is t major street intersection if features) with directions and
CITY OR TOWN LOCATION:	101		A Section 1
770,302			
PROPERTY OWNER - PRINT NAME	SIGNATURE	6	DATE
360 FA WERINFAS PK	of 15 mores	NV 76	7-6<1-2260
ADDRESS, CITY, STATE, ZIP	1	T A A T	TELEPHONE NUMBER
PROJECT PROPONENT - PRINT NAME	of I I	THE MITTER	510-031-468
PROJECT PROPONENT - PRINT NAME	SIGNATURE		DATE
300 BANK 11 SIDLA PLAZA	12176 50 17 1k	1100 12 746	12 10 0
ADDRESS, CITY, STATE, ZIP		7	TELEPHONE NUMBER
-FOR	R OFFICIAL USE ON	LY –	
Acres within Parcel to be developed verified by:  a. Building Department b. Public Works c. Zoning d. Health District	Mitigation Fee Assessed Compliance Report Fee (	:ac. × \$550 (Administrative Fee)	0 = \$ 00.00 \$ 00.00 \$ 00.00
If exemption or reduction of fee applies, ple	ease explain below:		
<ul> <li>Tortoise Mitigation Fee Previously I</li> <li>Property Previously Developed, Fe</li> </ul>	e Not Applicable. Explain	:	
• Property Subject to Governmental I			
Other. Explain:			
Peceived By:	CALCULAT	ION OF ACRES D	EVELOPED

AND FEES PAID WILL BE AUDITED



# **DEPARTMENT OF DEVELOPMENT SERVICES**

4701 West Russell Road - Las Vegas, NV 89118 \* (702) 455-3000

# **INSPECTION RECORD**

COMMERCIAL BUILDING

Site Address: 560 W LAKE MEAD PKWY

Permit Nbr: 10-33981 GD6

Owner Name: TRONOX L L C

Owner Phn: 00

Owner Address: P O BOX 268859, OKLAHOMA CITY OK 73126-8859, OKLAHOMA CITY OK 731268859

Contractor: LAS VEGAS PAVING CORPORATION

Ctr Phone: 251-5800

Contr Addr: 4420 S DECATUR BLVD, LAS VEGAS NV 89103

Subdivision:

Unit#:

Lot#:

Block#:

Parcel Nbr: 178-13-501-001 Nbr of Units: 0 Square Footage:

Permit Type: GRADING PERMIT 100,001+ CY Construction Type: Occupancy:

Appl Type: GRADING-COMMERCIAL

Issue Date: 2/08/11

Comments/Conditions: ENGINEER-OF-RECORD TO PROVIDE A LETTER

Scope: GRADING ONLY//NO BUILDING//SOIL REMEDIATION ONLY, COMMERCIAL SHORT

Permits become null and void if construction is not commenced within 180 days from date of issuance or work is suspended or abandoned for a period of 180 days anytime after work is commenced.

CODE	REQUIRED INSPECTIONS	DATE-INSPECTOR	CODE	REQUIRED INSPECTIONS	DATE-INSPECTOR
2207	Pad Grading (Soil / Certification)		3111	Well, Electrical Underground, Partial	
2222	Foundation:Footings		3199	Well, Electrical Final, Partial	
3319	Ufer/Ground Electrode				
	DO NOT BOUR FOOTINGS UNTIL AR	OVE ARE SIGNED	2233	Columns & Supports	
	DO NOT POUR FOOTINGS UNTIL AE	OVE ARE SIGNED	2228	Concrete Floor/Deck	
3311	Underground Electrical		2225	Concrete Wall	
5511	Underground Mechanical		2226	Masonry Pre Grout 'Lift	
3321	Slab Electrical			Masonry Pre Grout 'Lift	
4412	Underground Plumbing			Masonry Pre Grout 'Lift	
2229	Concrete Slab On Grade		2235	Subfloor Sheathing	
DC	NOT POUR CONCRETE SLAB UNTIL	ABOVE ARE SIGNED	2284	Stucco Brown Coat	
DC	NOT POUR CONCRETE SLAB ON TE	ABOVE ARE SIGNED	2273	Suspended Ceiling Frame	
2239	Shear Walls				
2236	Roof Sheathing		4469	Sump Pumps (Ejectors) Lifts	
			4466	Sand/Oil Interceptor	
3331	Rough Electrical		4479	Grease Interceptor	
4425	Water Piping		4489	Boilers	
4441	Rough Plumbing		4422	Gas Piping	
5551	Rough Mechanical		4484	Gas Test AndTag	
			4485	Gas Tag	
4455	Sewer				
			5535	Duct Detector Test	
2268	Roof Underlayment & Flashing		5545	Damper (Smoke/Fire)	
2244	Framing		5546	Rough Grease Duct	
2249	Exterior Lath/Siding		5548	Grease Duct Enclosure	
2252	Insulation		5575	Type I Hood	
2259	Interior Lath/Drywall		5577	Type II Hood	
				Hood Air Balance Report	
3399	Final - Electrical			Hood Extinquishing System (Fire Dept)	
4499	Final - Plumbing		5584	Gas Test And Tag (Mechanical)	
5599	Final - Mechanical		5585	Gas Tag (Mechanical)	
	QAA Final Report		3381	Temporary Power	
			3361	Generator Test	
2299	Final - Building				
3395	Electrical Meter Tag		3931	Fire Alarms (Rough Electrical)	
2295	Electrical Meter Tag		3991	Fire Alarms (Pre-Final)	
				Fire Alarms (Fire Dept. Testing)	
	T Barrier Bala (Floatrical)		3000	Fire Alarms (Final Flectrical)	1

10.33981





# STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

Certified Mail 7005-0390-0002-0503-6549

December 14, 2009

Michael J. Foster Tronox, LLC. 3301 N. W. 150<sup>th</sup> Oklahoma City, Oklahoma 73134



RE:

Enforcement Action for Failure to Complete Approved Site Remediation Activities, and Show Cause Meeting, Tronox, LLC, (Tronox) Henderson, Nevada, NDEP Facility ID Number 8-000539

Dear Mr. Foster:

Environmental Commission Form #3. This enforcement action is the result of the failure of Tronox, its predecessors in interest and affiliates to complete approved remediation activities for the known contamination in both soil and groundwater at the Tronox facility located within the Black Mountain Industrial ("BMI") Complex, 8000 West Lake Mead Parkway, Henderson, Nevada. Nevada Division of Environmental Protection (the "Division") facility ID Number H-000539. Among other things, the enforcement action seeks injunctive relief to ensure compliance with Tronox's remediation obligations going forward.

The enclosed <u>Order</u> requires a representative of Tronox to appear before the Division to show cause why the Division should not proceed with an action for injunctive or other relief in District Court. Any violation of the terms of this <u>Order</u> could subject you to an action for appropriate relief pursuant to NRS 445A.695, 445A.700, 445A.705, 459.580, or 459.585.

Pursuant to NRS 445A.690, this <u>Order</u> is final and not subject to review unless, within thirty (30) days after the date the <u>Order</u> is served, a request by written petition for a hearing is received by the State Environmental Commission, John Walker, Executive Secretary, via mail to 901 South Stewart Street, Suite 4001, Carson City, Nevada 89701, or via facsimile to (775) 687-5856. I have included the appropriate form for an appeal hearing (Form #3) for your convenience. Please provide me with a copy of any correspondence you have with the Commission.







IN THE MATTER OF )
TRONOX, INC. )
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If you have any questions regarding this matter, please call me at (775) 687-9484.

James Najima, Chief Bureau of Corrective Actions

JN/slg

Enclosures (3)

Finding of Alleged Violation Order SEC Form #3

### cc: w/Enclosures

Bill Frey, Senior Deputy Attorney General, Attorney General's Office, Carson City Carolyn Tanner, Deputy Attorney General, Attorney General's Office, Carson City Leo Drozdoff, P.E., Nevada Department of Environmental Protection, Carson City Tom Porta, NDEP, Carson City

John Walker, Nevada State Environmental Commission, Carson City

Brian Rakvica, P.E., NDEP, Las Vegas

Shannon Harbour, P.E., NDEP, Las Vegas

Mr. Ken Baker, Chartis, Pollution Cap Claims Department, 175 Water Street, 12<sup>th</sup> Floor, New York, New York 10038

Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901

Ebrahim Juma, Clark County DAQEM, 500 South Grand Central Parkway, PO Box 555210, Las Vegas, NV, 89155-5210

Robert Williams, Clark County Fire Department, 575 East Flamingo Road, Las Vegas, Nevada 89119

Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801

Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89011

Mark Paris, BEC, 875 West Warm Springs, Henderson, NV 89011

Rex Heppe, 2925 East Patrick Lane, Suite M, Las Vegas, NV 89120-2457

David Sadoff, AIG Consultants, Inc., 121 Spear Street, 3<sup>rd</sup> Floor, San Francisco, CA 94105

Leslie Hill, U.S. Department of Justice, PO Box 23896, Washington, DC 20026-3986

Craig Wilkinson, TIMET, PO Box 2128, Henderson, Nevada, 89009-7003

Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015

George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409

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Nicholas Pogoncheff, PES Environmental, Inc., 1682 Novato Blvd., Suite 100, Novato, CA 94947-7021

Susan Crowley, Crowley Environmental LLC, 366 Esquina Dr., Henderson, NV 89014

Susan Crowley, Tronox LLC, PO Box 55, Henderson, Nevada 89009
Mike Skromyda, Tronox LLC, PO Box 55, Henderson, Nevada 89009

Keith Bailey, Environmental Answers, 3229 Persimmon Creek Dr, Edmond,

Oklahoma 73013

Lee Erickson, Stauffer Management Company, P.O. Box 18890, Golden, CO 80402

Michael Bellotti, Olin Corporation, 3855 North Ocoee Street, Suite 200, Cleveland, TN 37312

Curt Richards, Olin Corporation, 3855 North Ocoee Street, Suite 200, Cleveland, TN 37312

Paul Sundberg, Montrose Chemical Corporation, 10733 Wave Crest Court Stockton, CA 95209

Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island, WA 98110

Deni Chambers, Northgate Environmental Management, Inc., 300 Frank H.

Ogawa Plaza, Suite 510, Oakland, CA 94612

Robert Infelise, Cox Castle Nicholson, 555 California Street, 10<sup>th</sup> Floor, San Francisco, CA 94104-1513

Michael Ford, Bryan Cave, One Renaissance Square, Two North Central Avenue, Suite 2200, Phoenix, AZ 85004

Jeff Gibson, AMPAC, 3883 Howard Hughes Pkwy, Ste 700, Las Vegas, NV 89169

IN THE MATTER OF	)
TRONOX, INC.	)
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### <u>ORDER</u>

This Order is issued under the authority vested in the Director of the Department of Conservation and Natural Resources ("Department") by Nevada Revised Statutes (NRS) 445A.445 (1), 445A.450 (8), and 459.470, delegated to the Division of Environmental Protection ("Division") pursuant to NRS 445A.450 (9) and 459.480, and in accordance with NRS 445A.675, 445A.690, 459.565 (1), and 459.570.

On the basis of the attached Finding of Alleged Violation ("FOAV"), which is a part of this Order, the Administrator of the Division, pursuant to authority delegated to him by the Director of the Department of Conservation and Natural Resources, has determined that Tronox, LLC ("Tronox") is in violation of Nevada Water Pollution Control Law, the Nevada Hazardous Waste Law, the Resource Conservation and Recovery Act, the Phase 2 Consent Order, the 1986 Consent Order, and the 2001 Consent Order as outlined in the Finding of Alleged Violation and that, among other remedies, injunction relief is required to ensure Tronox's compliance with its remediation obligations going forward.

### IT IS HEREBY ORDERED:

Tronox shall complete the following acts at/or with respect to the Tronox Facility located within the Black Mountain Industrial ("BMI") Complex, 8000 West Lake Mead Parkway in Henderson, Nevada (hereinafter "the Site") by the dates specified:

- Immediately maintain the Site in compliance with all federal, state, and local environmental laws to protect human health and the environment.
- Within ten (10) days of the date of this Order: Submit to the Division a written reply which states Tronox's intention to comply with the Order including its obligation to maintain the Site in compliance with all federal, state, and local environmental laws to protect human health and the environment.
- 3. Within sixty (60) days of the date of this Order: Submit to the Division a detailed plan, including a detailed schedule and timeline, that explains how Tronox will ensure that the existing groundwater treatment system ("GWTS") will remain fully operational, as defined herein, until the remedial actions are completed.
  - a. The term "fully operational" is defined as the pumping and treating of impacted groundwater in accordance with the Administrative Orders on Consent issued by the Division on the following dates: September 9, 1986; April 25, 1991; August 1, 1996; July 26, 1999; October 8, 2001; and April 12, 2005; the following NDEP Bureau of Water Pollution Control

IN THE MATTER OF	)
TRONOX, INC.	)
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permits: NV 0023060; NEV2001515; NEV2001516; UNEV94218; and any additional permits and requirements as provided by the Division to determine that adequate capture and treatment is occurring to protect human health and the environment.

- Within sixty (60) days of the date of this Order: Submit to the Division a detailed plan, including a detailed schedule and time line which explains how Tronox will complete the Remedial Alternative Studies ("RAS") required under the August 1, 1996 Consent Agreement ("the Phase 2 Consent Order"). The RAS documents shall address the issue of source control and reduction, and optimization of groundwater treatment.
- 5. Within sixty (60) days of the date of this Order: Tronox must provide documentation of financial assurance evidencing the existence of the funds necessary to conduct the required corrective actions at the Site.
- 6. Within thirty (30) days of the date of this Order: Tronox must present a plan for providing an emergency generator system for the GWTS or an alternate plan that is acceptable to the Division, to ensure continuous operation of the GWTS system.
- 7. Within thirty (30) days of the date of this Order: Tronox must provide a schedule for the complete removal of contaminated soils from the Site by December 31, 2010.
- 8. By December 31, 2010: Tronox must complete source control of contaminated soils at the Site.
- 9. Within ten (10) days of the date of this Order: Submit to the Division a copy of all insurance policies that are currently being used to fund the environmental activities at the Site, together with documentation evidencing (a) claims and payouts made pursuant to such policies, (b) any expenses incurred as part of any self-insured retention pursuant to such policies, (c) the term of such policy, and (d) and any other information related to coverage concerning the Site.
- 10. Within ten (10) days of the date of this Order: Contact Jim Najima, Chief of the Bureau of Corrective Actions of the Division to arrange a meeting at the Division's Carson City office to show cause why the Division should not seek civil penalties for the violations cited in the FOAV.

Date A, 2005

James Najima, Chief Bureau of Corrective Actions

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### FINDING OF ALLEGED VIOLATION

I. This Finding of Alleged Violation is based upon the following:

# A. RELEVANT STATUTORY AND REGULATORY AUTHORITY UNDER THE NEVADA WATER POLLUTION CONTROL LAW:

- 1. It is the policy of the State of Nevada and the purpose of the Nevada Water Pollution Control Law, codified at Nevada Revised Statutes (NRS) 445A.300 to 445A.730 inclusive (the "NWPCL"), "(a) to maintain the quality of the waters of the State consistent with the public health and enjoyment, the propagation and protection of terrestrial and aquatic life, the operation of existing industries, the pursuit of agriculture, and the economic development of the State, and (b) to encourage and promote the use of methods of waste collection and pollution control for all significant sources of water pollution (including point and diffuse sources)."
- 2. The State of Nevada, Department of Conservation and Natural Resources, Division of Environmental Protection (the "Division"), under the authority of NRS 445A.445 (1) and 459.475, has the power and the duty to administer and enforce the provisions of the NWPCL.
- 3. The Division is authorized by NRS 445A.675 and 445A.690 to make findings and issue orders to address violations of the NWPCL.
- NRS 445A.465 states:

Injection of fluids through a well or discharge of pollutant without a permit prohibited; regulations:

- 1. Except as authorized by a permit issued by the department pursuant to the provisions of NRS 445A.300 to 445A.730, inclusive, and regulations adopted by the commission, it is unlawful for any person to:
  - (a) Discharge from any point source any pollutant into any waters of the state or any treatment works.
  - (c) Discharge from a point source a pollutant or inject fluids through a well that could be carried into the waters of the state by any means.
  - (d) Allow a pollutant discharged from a point source or fluids injected through a well to remain in place where the pollutant or fluids could be carried into waters of the state by any means.

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- 5. The Division may issue an Order requiring the owner or operator of a property whereon hazardous waste, hazardous substances and/or regulated substances are released to take corrective action to address soil contamination pursuant NAC 445A.227, and to provide a plan and schedule for completing corrective action pursuant to NAC 445A.2271.
- 6. The Division may issue an Order requiring the owner or operator of a property whereon hazardous waste, hazardous substances and/or regulated substances are released to take corrective action to address groundwater contamination pursuant NAC 445A.22725, and to provide a plan and schedule for completing corrective action pursuant to NAC 445A.2273.

# B. RELEVANT STATUTORY AND REGULATORY AUTHORITY UNDER THE NEVADA HAZARDOUS WASTE LAW:

- 1. It is the purpose of the Nevada Hazardous Waste Law codified at NRS 459.400 to 459.600 inclusive (the "NHWL"), to "(1) Protect human health, public safety and the environment from the effects of improper, inadequate or unsound management of hazardous waste; (2) Establish a program for regulation of the storage, generation, transportation, treatment and disposal of hazardous waste; and (3) Ensure safe and adequate management of hazardous waste."
- 2. The Division has the power to enforce all rules, regulations and standards promulgated by the Nevada State Environmental Commission (the "SEC") under the NHWL pursuant to NRS 459.475 (1), to act as the state agency for the purposes of federal laws and regulations on hazardous waste pursuant to NRS 459.470, as delegated pursuant to NRS 459.480.
- 3. Pursuant to NRS 459.565, if the Division receives information that the handling, storage, transportation, treatment or disposal of any waste or hazardous substance at a facility may present an "imminent and substantial hazard to human health, public safety or the environment," it may issue an order to the owner or operator of the facility or the custodian of the hazardous waste to take all necessary steps to prevent the act or eliminate the practice which constitutes the hazard. The Division may also order a site assessment to be conducted and a remediation plan to be developed, assess costs and expenses incurred by the Division in removing, correcting or terminating any hazard to human health, public safety or the environment, seek injunctive relief; and take any other action designed to reduce or eliminate the hazard.

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- 4. NAC 459.9533 defines "Ammonium Perchlorate" as a highly hazardous substance, per all applicable thresholds.
- 5. Per the United States Environmental Protection Agency, National Center for Environmental Assessment, "Hexavalent Chromium" is classified as a human carcinogen. See http://www.epa.gov/ncea/iris/toxreviews/0144-tr.pdf chromium.
- 6. Pursuant to NRS 459.570, the Division has the power to issue orders to address violations of the NHWL, including any regulation, or term or condition of a permit issued by the Division.
- 7. Nevada adopts and enforces the regulations applicable to the Resource Conservation and Recovery Act ("RCRA"). NAC 444.8632 states in part: Compliance with federal regulations adopted by reference. In addition to the requirements of NAC 444.850 to 444.876, inclusive, a person who generates, transports, treats, stores, disposes or otherwise manages hazardous waste or used oil shall comply with all applicable requirements of, and may rely upon applicable exclusions or exemptions under, 40 C.F.R. Part 2, Subpart A, Part 124, Subparts A and B, Parts 260 to 270, inclusive, Part 273 and Part 279, as those provisions existed on July 1, 2007, which, except as otherwise modified by NAC 444.86325, 444.8633 and 444.8634, are hereby adopted by reference. The Commission may use federal statutes and regulations that are cited in 40 C.F.R. Part 2, Subpart A, Part 124, Subparts A and B, Parts 260 to 270, inclusive, Part 273 and Part 279 to interpret these sections and parts.
- 8. RCRA defines a "solid waste management unit" as "any discernable unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released." 55 Fed. Reg. 30808 (1990).
- 9. In relevant part, RCRA 3004 addresses solid waste management units as follows:
  - (u) Continuing releases at permitted facilities

Standards promulgated under this section shall require, and a permit issued after November 8, 1984, by the Administrator or a State shall require, corrective action for all releases of hazardous waste or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit under this subchapter, regardless of the time at which waste was placed in such unit. Permits issued under section 6925 of this title shall contain schedules of compliance for such corrective action (where such corrective action

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cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action.

(v) Corrective action beyond facility boundary

As promptly as practicable after November 8, 1984, the Administrator shall amend the standards under this section regarding corrective action required at facilities for the treatment, storage, or disposal, of hazardous waste listed or identified under <a href="section 6921">section 6921</a> of this title to require that corrective action be taken beyond the facility boundary where necessary to protect human health and the environment unless the owner or operator of the facility concerned demonstrates to the satisfaction of the Administrator that, despite the owner or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such action. Such regulations shall take effect immediately upon promulgation, notwithstanding <a href="section 6930(b">section 6930(b)</a> of this title, and shall apply to--

- (1) all facilities operating under permits issued under subsection (c) of this section, and
- (2) all landfills, surface impoundments, and waste pile units (including any new units, replacements of existing units, or lateral expansions of existing units) which receive hazardous waste after July 26, 1982.

Pending promulgation of such regulations, the Administrator shall issue corrective action orders for facilities referred to in paragraphs (1) and (2), on a case-by-case basis, consistent with the purposes of this subsection.

- 10. 40 C.F.R. 260.10 defines a "Facility" subject to RCRA regulation as:
  - (1) All contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste, or for managing hazardous secondary materials prior to reclamation. A facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combinations of them).
  - (2) For the purpose of implementing corrective action under <u>40 CFR</u> <u>264.101</u> or <u>267.101</u>, all contiguous property under the control of the owner or operator seeking a permit under Subtitle C of RCRA. This definition also applies to facilities implementing corrective action under RCRA Section 3008(h).

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(3) Notwithstanding paragraph (2) of this definition, a remediation waste management site is not a facility that is subject to 40 CFR 264.101, but is subject to corrective action requirements if the site is located within such a facility.

[Emphasis added.]

- 11. RCRA 3005(e) defines a facility subject to interim status as:
  - (1) Any person who--
  - (A) owns or operates a facility required to have a permit under this section which facility--
    - (i) was in existence on November 19, 1980, or
    - (ii) is in existence on the effective date of statutory or regulatory changes under this chapter that render the facility subject to the requirement to have a permit under this section,
  - (B) has complied with the requirements of section 6930(a) of this title, and
  - (C) has made an application for a permit under this section,

shall be treated as having been issued such permit until such time as final administrative disposition of such application is made, unless the Administrator or other plaintiff proves that final administrative disposition of such application has not been made because of the failure of the applicant to furnish information reasonably required or requested in order to process the application. This paragraph shall not apply to any facility which has been previously denied a permit under this section or if authority to operate the facility under this section has been previously terminated.

[Emphasis added.]

- 12. Pursuant to RCRA 3008(h), facilities with interim status are subject to corrective action orders. Specifically, RCRA 3008(h) states in part:
  - (1) Whenever on the basis of any information the Administrator determines that there is or has been a release of hazardous waste into the environment from a facility authorized to operate under section 6925(e) of this title, the Administrator may issue an order requiring corrective action or such other response measure as he deems necessary to protect human health or the environment or the Administrator may commence a civil action in the United States district court in the district in which the

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facility is located for appropriate relief, including a temporary or permanent injunction.

[Emphasis added].

13. Pursuant to 40 C.F.R. Part 265, Subpart H, the Division may require financial assurance from interim status facilities to ensure the funding of the costs of remediation, including adjustments for current cost estimates of clean-up, inflation, and insufficiency of posted financial assurance.

### C. RELEVANT BACKGROUND

- Kerr-McGee Corporation, Kerr-McGee Chemical, LLC, its affiliates, and successors-in-interest have owned and operated an industrial facility at the BMI Complex in Henderson, Nevada (the "Site") for approximately fifty years. Tronox, LLC took ownership of the Site in or about 2005. These entities are collectively referred to herein as the "Parties."
- Ending in approximately 1998, the Parties produced ammonium 2. perchlorate, magnesium perchlorate, potassium perchlorate, and sodium perchlorate (collectively, "perchlorate") at the Site. As a result of manufacturing operations at the Site, additional contaminants are found in the groundwater at or near the Site in concentrations above the limits set These contaminants include: hexavalent chromium, by the NHWL. dioxins, total petroleum hydrocarbons, perchlorate, asbestos. organochlorine pesticides, aluminum, antimony, arsenic, lead, mercury, radium, thorium, uranium, various semi-volatile and volatile organic compounds. The contaminated groundwater flows into the Las Vegas Wash, into Lake Mead and on to the Colorado River.
- 3. Pursuant to its authority under the NWPCL, and the NHWL, the Division issued an Administrative Order on Consent on September 9, 1986 to Kerr McGee Chemical Corporation (the "1986 Consent Order") requiring the remediation of the hexavalent chromium contamination in groundwater. Pursuant to the 1986 Consent Order, the Parties installed a system of monitoring and interceptor wells and groundwater treatment systems at and around the Site and the larger BMI Complex to slow the migration of impacted groundwater.
- 4. On April 25, 1991, the Division entered an Administrative Order on Consent (the "Phase 1 Consent Order") with land and facility owners within the BMI Complex which set the first phase of a three phase process to investigate, characterize, and if necessary, remediate the hazardous waste releases in the common areas, as well as individually owned sites, within the BMI Complex and surrounding lands and waters.

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- 5. Based upon the reports received pursuant to the Phase 1 Consent Order, the Division issued an Administrative Order on Consent on August 1, 1996 to Kerr-McGee Chemical Corporation (the "Phase 2 Order") to require additional investigation, characterization, and if necessary, remediation of waste releases at or associated with the Site which may pose a threat to human health, welfare, or the environment.
- 6. In 1997, perchlorate was detected in the Colorado River. The source of this contamination was subsequently traced to the groundwater beneath the Site. On July 26 1999, the Division issued an Administrative Order on Consent to Kerr McGee Chemical, LLC (the "1999 Consent Order"), requiring the establishment of groundwater collection and treatment facilities to remediate this perchlorate contamination.
- 7. Following the installation of such remedial systems, the Division issued an Administrative Order on Consent to Kerr-McGee Chemical, LLC on October 8, 2001 (the "2001 Consent Order"), and again on April 12, 2005 (the "2005 Consent Order"), modifying and refining the remedial technologies and systems employed at the Site.
- 8. Since 2007, Basic Remediation Company ("BRC") has managed a Corrective Action Management Unit ("CAMU") pursuant to a RCRA permit to address source contaminants within the BMI Complex. The CAMU has been permitted to accept contaminated soils from individual corporate landowners within the BMI Complex, at significant cost savings due to its proximate location. Upon information and belief, BRC intends to cap off the CAMU in late 2010, thereby precluding any further deposits of contaminated soils.
- 9. Upon information and belief, Tronox is the beneficiary of an insurance policy with Chartis to address remediation at and around the Site, including the removal of contaminated soils to a CAMU. Upon information and belief, the Chartis insurance policy expires on December 31, 2010.

# II. FINDINGS OF ALLEGED VIOLATIONS: The Division finds and alleges as follows:

A. **FINDING:** Without waiving any claim against Kerr-McGee Chemical Corporation, Kerr-McGee Chemical, LLC, Anadarko Petroleum Corporation, its affiliates, predecessors-in-interest, and successors-in-interest or any other party, the Division finds that Tronox is a successor-in-interest, and an owner and operator of the Site subject to all laws, rules, regulations and standards promulgated by the State Environmental

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Commission ("SEC"), and all orders and permits promulgated by the Department, as delegated to the Division.

- B. FINDING: The Parties are in violation of NAC 445A.227, 445A.2271, 445A.22725, and 445A.2273 of the NWPCL, and NRS 459.565 of the NHWL for failing to complete required assessments and reports of the effectiveness of the pump and treat groundwater system ("the GWTS"). These actions also give rise to the violation of the 1986 Consent Order, the Phase 2 Consent Order and the 2001 Consent Order which were executed in accordance with this authority.
  - 1. Pursuant to its authority under NRS 445A.445 (1), NAC 445A.227, 445A.2271, 445A.22725, and 445A.2273 of the NWPCL, and NRS 459.475(1) and 459.565 of the NHWL, the Division issued multiple administrative orders on consent to the Parties requiring the investigation, characterization, and remediation of releases at or associated with the Site which may pose a threat to human health, welfare, or the environment.
  - Pursuant to the 1986 Consent Order, paragraph 6, the Parties are required to demonstrate on a monthly basis that overlapping cones of depression are achieved. This has not been done, nor has any acceptable alternative been performed or proposed.
  - 3. Pursuant to the 1986 Consent Order, paragraph 7, "If the monitoring results required in Paragraph 6, occurring six (6) months after initial operation of the intercept system, demonstrate that the system is not effectively collecting the intended groundwater plume, the Department may require KMCC to implement the Contingency Plan set forth in Paragraph 8." Paragraph 8 states "KMCC shall prepare and submit to the Department for review and approval an Intercept System Contingency Plan, pursuant to the schedule set forth in Appendix B. This Plan will set forth additional measures to be implemented to improve and update the installed Intercept System to correct, to the extent possible, the deficiencies identified."

According to Appendix B of the 1986 Consent Order "the schedule of implementation for the proposed groundwater mitigation program at the Henderson Facility with time for completion after approval by the Nevada DEP" for the Intercept System Contingency Plan was 7 months. On December 18, 1986, the Division approved the "electrochemical reduction process for chromium-removal". Upon information and belief, this is the approval date referenced in Appendix B, and thus the Intercept System Contingency Plan

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should have been submitted in July 1987. Upon information and belief, the Parties failed to submit a contingency plan.

- 4. Pursuant to the 2001 Consent Order, Section II.B., the Parties are required to install an extraction well system at the Athens Road area of the Site (as further described by the 2001 Consent Order), designed to remove up to 400 gallons per minute of groundwater with the objective of capturing perchlorate flux at this location. As noted herein, the Parties have failed to demonstrate this capture.
- 5. The Division advised Tronox that the GWTS does not appear to be providing adequate capture at either the Plant Site well field or at the Athens Road well field (each as further described in the Orders).
- 6. The Division has advised Tronox that the Seep Area well field (as described in the Orders) fails to provide capture of contaminants, and Tronox is currently flow-rate limited to address the Seep Area. The Parties have failed to provide an assessment and report indicating that additional capture is unnecessary in this area, nor have they attempted to capture additional contaminants.
- 7. The Division advised Tronox to install additional wells and to explore alternate treatment processes such as in-situ bioremediation in the Seep Area.
- 8. On March 28, 2007, the Division notified Tronox that it must evaluate and report on the effectiveness the GWTS. The Division requires this information so that it may accurately determine the necessity of further corrective action.
- 9. The Division has attempted to obtain this required information from Tronox informally without success. Between August 29, 2006 and August 28, 2007, the Division reiterated this requirement to Tronox on at least four occasions.
- 10. Tronox refuses to comply with these directives. Tronox contends that its existing insurance policy under Chartis will not cover multiple treatment systems such as an in-situ bioremediation. And to date, Tronox has refused to install additional wells.
- 11. Tronox submitted a work plan to evaluate the effectiveness of the GWTS (also known as the Capture Zone Analysis) on May 30, 2007, a revised work plan on August 30, 2007, and a second revised work plan on November 29, 2007.

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- 12. On December 11, 2007, the Division approved the revised work plan dated November 29, 2007.
- 13. Tronox has failed to fully implement the approved work plan. Specifically, Tronox has failed to install the required wells in the Seep Area. Without the installation of these wells, any evaluation of the GWTS will be incomplete.
- 14. As of the date of this FOAV, Tronox has failed to provide to the Division a complete evaluation of the effectiveness of the GWTS.
- C. FINDING: The Parties are in violation of the Phase 2 Consent Order, Section III. Parties Bound. The Phase 2 Consent Order was executed by Kerr-McGee Chemical Corporation. The notification requirements of Section III. regarding change of corporate status have not been complied with.
- D. **FINDING:** The Parties are in violation of the Phase 2 Consent Order, Section IV. Work To Be Performed.
  - 1. On October 3, 2005, the Division agreed to allow Tronox to complete a phased approach to the investigation of the sources of contamination at the Site. The data obtained from the required investigation is to be used to generate a Remedial Alternative Study ("RAS") to fulfill the Parties' obligations under the Phase 2 Consent Order.
  - 2. Tronox has shown a history of inappropriate delay in the completion of this investigation. Between October 3, 2005 and November 2, 2007, the Division met with Tronox sixteen times to discuss the first phase of this investigation ("Phase A").
  - 3. After approximately six months of delays and discussions, Tronox implemented and reported to the Division on November 2, 2007.
  - 4. Between April 5, 2007 and December 4, 2008, the Division met with Tronox twenty-four times to discuss the second phase of this investigation ("Phase B"). The Phase B work plan was broken into six segments Areas I through IV for soils, one segment for soil gas, and one for site-wide groundwater. Each of these segments required numerous revisions, delays, and Division mark-ups before they were acceptable and approved.
  - 5. The Phase B Work plan has only recently been completed on November 12, 2009.

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- 6. On October 7, 2009, Tronox discussed the draft results of the Area I Phase B investigation with the Division. To date, Tronox has failed to submit either draft or final results to the Division.
- 7. Tronox advised the Division that it will further investigate Area I based upon their initial, and to date undisclosed, results. Additional sampling was proposed on November 19, 2009. Tronox's sampling proposal was wholly deficient, and the Division requested the submission of additional information to complete the sampling proposal.
- 8. The Division has repeatedly expressed concern to Tronox and Chartis that remediation appears necessary, and that Tronox and Chartis have failed to provide an appropriate schedule to ensure that this work is completed in a timely fashion.
- 9. Tronox's responses to the Division's requests are unacceptable and in bad faith. The Phase 2 Consent Order has been in place for over thirteen years, and Tronox has not produced a RAS for any media (soil, groundwater, etc.) or for any area of the Site, as required by the Phase 2 Consent Order.
- Without completion of the Deliverables required by the Phase 2
   Consent Order, remediation contemplated by a Phase 3 Consent Order is stalled.
- E. FINDING: The Parties are in violation of the Phase 2 Consent Order, Section XVII. Reimbursement of Division Oversight Costs. Tronox has failed to reimburse the Division for \$37,024.52 as invoiced on April 6, 2009.
- F. FINDING: The Parties are in violation of RCRA §§ 3004(u) and 3008(h) and 40 C.F.R. Part 265, Subpart H, and the 1986 Consent Order, paragraph 28. The Parties have failed to provide adequate financial assurance to address the unacceptable risks to human health and the environment posed by the contaminants at the Site.
  - 1. The Site is subject to corrective action under RCRA 3004(u) and 3008(h).
  - The financial assurance provided by Kerr-McGee Chemical Corporation in the Post Closure Permit Application dated July 24, 1987 is no longer viable as Kerr McGee Chemical Corporation is in default of its financial assurance obligations.

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- 3. Pursuant to the 1986 Consent Order, Paragraph 28, the Parties agreed to unconditionally guarantee performance of its obligations thereunder, and to affirm their financial capability on an annual basis, upon request by the Division.
- 4. The Division finds that financial assurance provided by Tronox through the Chartis insurance policy is now insufficient.
  - i. Upon information and belief, the Chartis Policy is due to expire on December 31, 2010.
  - Remediation at the Henderson Facility is estimated to take more than ten years, well in excess of the twelve months of coverage remaining under the Chartis Policy.
  - iii. Upon information and belief, the Chartis Policy disallows coverage of in-situ bioremediation in the Seep Area, contrary to the directive of the Division.
- G. FINDING: The Parties are in violation of NRS 445A.465 for allowing pollutants discharged from a point source or fluids injected through a well to remain in place where the pollutants or fluids could be carried into the waters of the State by any means.
  - The delays caused by the Parties in violation of the Administrative Orders on Consent as outlined herein have caused undue delay of source control at or around the Site.
  - Over 800,000 cubic yards of contaminated soil are believed to remain on Site, resulting in exponentially higher costs of maintaining the GWTS, and frustrating the process of remediation.
  - The Parties currently have the ability to access the CAMU within the BMI Complex with capacity to hold the contaminated soils from the Site.
  - 4. Immediate source control will significantly reduce the overall costs of the GWTS and remediation.
- H. FINDING: The Parties' failure to operate the GWTS will result in imminent degradation of the Las Vegas Wash, Lake Mead and the Colorado River, and an imminent and substantial threat to human health, in violation of NRS 445A.305, NRS 459.400, NAC 445A.144.
  - Based upon the modeling conducted by the Division, with the assumption of a Las Vegas Wash base load of sixty pounds per day of perchlorate, the following is estimated:

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- a. The loading of perchlorate will increase by 23% immediately upon the GWTS being shut down.
- b. The loading of perchlorate will increase by over 100% within 18 months of the GWTS being shut down.
- c. The loading of perchlorate will increase by over 860% within 24 months of the GWTS being shut down.
- 2. Based upon information provided by Veolia Water North America, the operator of the GWTS, the following is estimated:
  - a. The microbial culture used in the GWTS will die within two to three days of the GWTS being shutdown.
  - b. It may take between six and twelve months to reestablish the microbial culture within the GWTS, should it die.
- Based upon information provided by the Southern Nevada Water Authority (SNWA) and modeling conducted by their environmental contractor Flowscience, the following is estimated:
  - a. Concentrations of perchlorate in Lake Mead are expected to increase by 1200% within 24 months in the event that the GWTS is shut off.
  - b. Concentrations of perchlorate in the Colorado River system and the Metropolitan Water District intake pipeline are expected to increase by 300% within 24 months in the event that the GWTS is shut off.
- 4. Upon information and belief, over 25 million people rely upon these water bodies as a source of drinking water.
- 5. The Division finds the degradation of these water bodies is an unacceptable and imminent threat to human health under NRS 445A.305, NRS 459.400, NAC 445A.144.
- 6. Upon information and belief, Tronox may seek to abandon the Henderson Site after a sale of its assets in bankruptcy. The abandonment of the Site, and/or any loss of power or disabling of the GWTS will cause an imminent and substantial threat to human health. Tronox must present a plan to the Division demonstrating the continuation of the GWTS system, including an emergency

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generator back-up system for the GWTS, or an alternate plan that is acceptable to the Division.

- III. CONCLUSION: Based upon the information set forth herein, the Nevada Division of Environmental Protection has determined that Tronox, LLC is in violation of the following provisions of the Nevada Administrative Code (NAC), the Nevada Revised Statutes (NRS), the Resource Conservation and Recovery Act (RCRA), and Division Administrative Orders on Consent.
  - 1. NAC 445A.227, 445A.2271, 445A.22725, 445A.2273, and NRS 459.565. Failure to complete required assessments and reports of the effectiveness of the pump and treat groundwater system ("the GWTS").
  - 2. Phase 2 Consent Order, Section III. Parties Bound.
  - 3. Phase 2 Consent Order, Section IV. Work To Be Performed.
  - Phase 2 Consent Order, Section XVII. Reimbursement of Division Oversight Costs.
  - 5. RCRA §§ 3004(u) and 3008(h) and 40 C.F.R. Part 265, Subpart H. Financial Assurance.
  - 6. 1986 Consent Order, paragraph 28. Financial Assurance.
  - NRS 445A.465. Allowing pollutants discharged from a point source or fluids injected through a well to remain in place where the pollutants or fluids could be carried into the waters of the State by any means.
  - 8. NRS 445A.305, NRS 459.400, NAC 445A.144. The Division has a duty to address the imminent and substantial threat to human health and the environment caused by the Site.

Date Date

James Najima, Chief Bureau of Corrective Actions

### General Engineering Contractors Since 1958



4420 South Decatur Blvd. Las Vegas, NV 89103-5803 (702)251-5800 (702)251-1968 Fax www.LasVegasPaving.com

February 7, 2011

Clark County Development Services 4701 W. Russell Road Las Vegas, Nv 89118

Attn:

"Permit Issue"

Application #

10-33981

Project Address:

560 W. Lake Mead Pkwy.

<u>Danny Fitzgerald</u> (Construction Manager) is an authorized employee of Las Vegas Paving for the TRONOX Soil Remediation project and has permission to use check number 10-33981 from "<u>Las Vegas Paving Corp</u>" to pick up permit number stated above using our state contractor's license number #5507 Class AB...

Thank you,

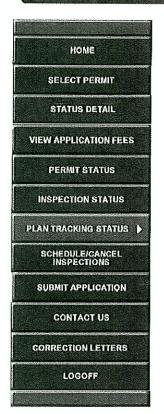
Jay Smith President

Las Vegas Paving Corp.



## Clark County CONSTRUCTION SERVICES ONLINE

#### PERMITS, PLANS AND INSPECTIONS



#### Plan Tracking Status

Parcel ID:

178-13-501-001 Address:

560 W LAKE MEAD PKWY

Application Date:

12/06/10 Owner:

TRONOX L L C

Application #:

10 - 33981

Application Type: GRADING-COMMERCIAL

Agency Description: PLAN TRACKING

Action Description: FEE WORK-UP COMPLETED

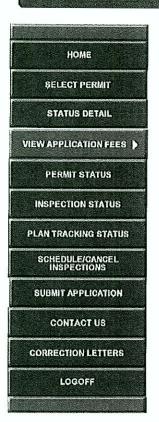
Comment

ready to issue/1465.99 due/need dust permit/thn



# Clark County CONSTRUCTION SERVICES ONLINE

#### PERMITS, PLANS AND INSPECTIONS



#### **Application Fees**

Parcel ID:

178-13-501-001 Address:

560 W LAKE MEAD PKWY

Application Date: 12/06/10

Owner:

TRONOXLLC

Application #: 10 - 33981 Application Type: GRADING-COMMERCIAL

Fee Description	Amt Charged	Amt Due
ZONING PC FEE	\$133.27	\$133.27
GRADING PLAN REVIEW-BLD	\$413.40	\$0.00
GRADING 100,001-OR MORE CY (000- 000/GD6-00)	\$1,332.72	\$1,332.72
TOTAL	\$1,879.39	\$1,465.99



## Air Quality & Environmental Management

500 S. Grand Central Parkway, 1st floor Las Vegas NV · 89155-1776 (702) 455-5942 · Fax (702) 383-9994



CLARK COUNTY • LAS VEGAS • NORTH LAS VEGAS • BOULDER CITY • HENDERSON • MESQUITE

# DUST CONTROL PERMIT FOR CONSTRUCTION ACTIVITIES INCLUDING SURFACE GRADING AND TRENCHING

	FROM COMPLIANCE WITH THE ENDANGERED SPECIES ACT
Permit Number:	PAYMENT INFORMATION: 20102623
38851 Mod: 1	Fee: <b>\$4,999.20</b>
Permittee and Project Information	Balance Due: \$
Permittee: Las Vegas Paving Corpo	oration
Permittee Address: 4420 South Decatur Blv	d
City, State, Zip: Las Vegas NV 89103	Fax No.:: 7022579436
Project Name: Asbestos Abatement	
Project Address: 560 West Lake Mead Pk	wy
Located In: Township: 22 Range	e: 62 Section: 13 EO Area: SE
Acreage This Mod: 35.6 Total Acreage	42.2
Cross Streets: E of US-95	
Project Contact(s)	
Normal Hours: Troy Hildreth	After Hours: Troy Hildreth
Company: Las Vegas Paving Corporation Phone: (702)510-1278	Company: Las Vegas Paving Corp Phone: (702)510-1278
Issue Date: 24-Aug-2010	Expiration Date: 09-Aug-2011
	Request Of Sign Waiver
Notes	<ul> <li>Public Works Agreement</li> </ul>
Additional areas with the same property own	ner Closure Plan
	Conditional Renewal
DUST CONTROL MEASURES MUST OF	CCUR 24 HOURS A DAY, 7 DAYS A WEEK
2001 CONTINUE MILACORLES MICST CO	COR 24 HOURS A DAT, I DATS A WEEK

THIS PERMIT IS NOT VALID UNTIL ALL FEES ARE PAID IN FULL AND A COMPLETE COPY IS ON THE PROJECT SITE, INCLUDING CONDITIONS OF PERMIT AND DUST MITIGATION PLAN

It is a condition of the issuance of any operating permit required by the commission or pursuant to any local ordinance for the control of air pollution that the holder of the operating permit agrees to permit inspection of the premises to which the permit relates by any authorized officer of the department at any time during the holder's hours of operation without prior notice.

This condition must be stated on each application form and operating permit. NRS 445B.580.





RECEIVED CC-DAOM

2010 AUG 19 P 2: 30

## APPLICATION FOR DUST CONTROL PERMIT MODIFICATION

Submit applicable fee per Section 18 of the Air Quality Regulations

1.	PERMIT INFORMATION:	Permit Number: 38851
	Applicant/Permittee: Las Vegas Paving Cor	rp.
	Project Name: Asbestos abatement	
2.	IS MODIFICATION REQUESTED AS A	RESULT OF A CAO? ☐Yes ☑No
3.	INFORMATION TO BE MODIFIED:	
	✓ Control Measures:	
	Attach Control Measure Selection Pa	ages (DCP03) for all modifications.
	✓ Project Acreage:	
	Acreage to be added: 35.6	Acreage to be removed:
	Attach a revised Assessor's Parcel	Map showing the originally permitted area and the
	area to be added/removed. Include C	Owner's Designee form (DCP 05) if applicable.
	Supplemental Forms:	
	☐ Blasting ☐ Demolition ☐ VLP /	HPVLP: List permit number and/or company name.
	Attach Supplemental forms and Conti	
	Other:	
	additional areas with	the same property owner
		Ü
	Attach modifications and/or current in	nformation.
1	SUBMITTED, BY:	
₹.		Troy Hildreth
	Signature	Print Name
	Las Vegas Paving Corp.	
	Company Name/Title	
	251-5800 Phone Number	08-17-2010 Date
_	<b>~</b> 0	Date
5.	APPROVED BY:	8.23.10
	DAQEM Permitting Approval NIA	Date
	DAQEM Asbestos/Removal Approval	Date
	107	Date
EX	CPIRATIONS SUBMITTED ON CPIRATION DATE OF THE PERMIT.	THIS FORM DO NOT CHANGE THE
		HE SAME DATE AS THE CURRENT PERMIT
	PIRATION.	TIE GAME DATE AS THE CURRENT PERMIT
	n # DCP 06 . 11/14/04 AGREE TO CHANG	IGES
.ev	DATE	INITIAL

### DUST MITIGATION PLAN FOR Asbestos Abatement

### Prepared for:

Clark County Department
Of Air Quality & Environmental Management
500 South Grand Central Parkway
1st Floor
Las Vegas, Nevada 89155

### Prepared By:

Las Vegas Paving Corp. 4420 S. Decatur Boulevard Las Vegas, Nevada 89103

August 17, 2010

#### A. Project Description

- This project consists of the removal and disposal of contaminated soils.
   The soil type that will be encountered during this project is listed as Moderate high. This designation was determined from figures 3 and 4 'Valley Soil Types Map' located in the Construction Activities Notebook.
- 2. A map for the project is included within this application.

#### B. Development Plan

1. Las Vegas Paving anticipates this project to continue for 10 months.

### C. Estimated Proposed Expenditure

1. The costs for the miscellaneous products anticipated to be used on this project are as follows:

Water Truck with Driver

\$92.00 per Hour

Water

\$3.00 per 1,000 gallons

Surfactant

\$3.50 per 1,000 gallons of water

For this project, Las Vegas Paving anticipates that the water truck, operator, and water consumption will cost approximately \$124,983.00

#### D. Control Measures

All control measures are listed in the previous section.

#### E. Water Source Identification

Hydrants will be used to fill water trucks.

#### F. Soil Stabilization Measures

Las Vegas Paving plans on using water as our primary source of Dust Control. If water is not effective alone, then a surfactant will be added to the water at a rate of no less than 2 gallon per 4,000 gallons of water. Las Vegas Paving will keep records of any surfactant used for this project.

### G. Employee Dust Control Training and Compliance

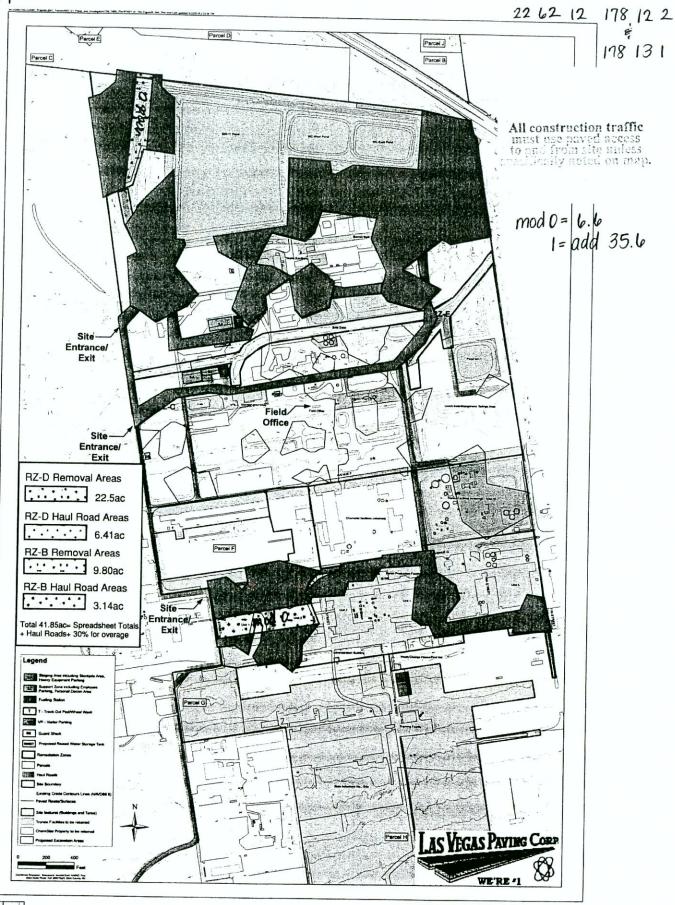
Mr. Tony Hainey the Project Superintendent will supervise the activities for this project. Mr. Hainey will work closely with Mr. Troy Hildreth, Las Vegas Paving's Environmental Department, if situations occur that conflicts with this mitigation plan.

#### CONTROL MEASURES SELECTION PAGES

### **DISTURBED LAND – Long-Term Stabilization BMP 11** YOU MUST SELECT AT LEAST ONE CONTROL MEASURE FOR EACH REQUIREMENT. PLACE A CHECK IN THE BOX IN FRONT OF YOUR SELECTION. Requirement: Stabilize soil to meet standards required by Air Quality Regulation Section 90. stabilization. 11-2 Stabilize disturbed soil with vegetation for long-term stabilization. ☐ 11-3 Pave or apply surface rock for long-term stabilization. Use wind breaks in accordance with a site-specific plan approved 11-4 by the Control Officer and Region IX Administrator of the EPA. ☐ 11-5 Apply water and maintain soils in a visible damp or crusted condition for temporary stabilization. Requirement: Prevent access to limit soil disturbance. 11-6 Prevent access by fencing, ditches, vegetation, berms or other suitable barrier or means approved by the Control Officer. Recommendations: Plant perimeter vegetation early. Use of native and droughttolerant plants with greater than 50 % silhouette area is

See also: BMP 12: DUST SUPPRESSANT, DUST PALLIATIVE AND SURFACTANT – Selection and Use.

encouraged.



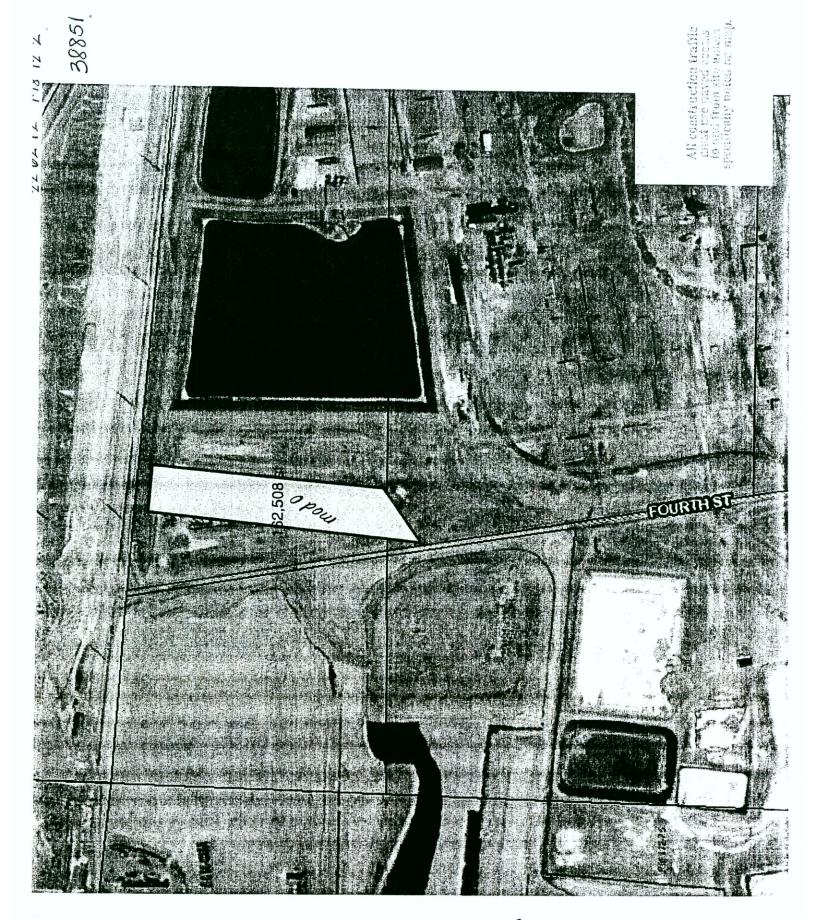


Mod #1= addition of **35.6** acres, 8-17-10

AGREE TO CHANGES

DATE





AGREE TO CHANGES LINITIAL

DATE 8-12-10 INITIAL



mod 0 108,334 sf FOURTHST

2000 = 6.6

AGREE TO CHANGES DATE 8-2-10

YB INITIAL



## Appendix C

**Envirocon Closeout Documentation** 

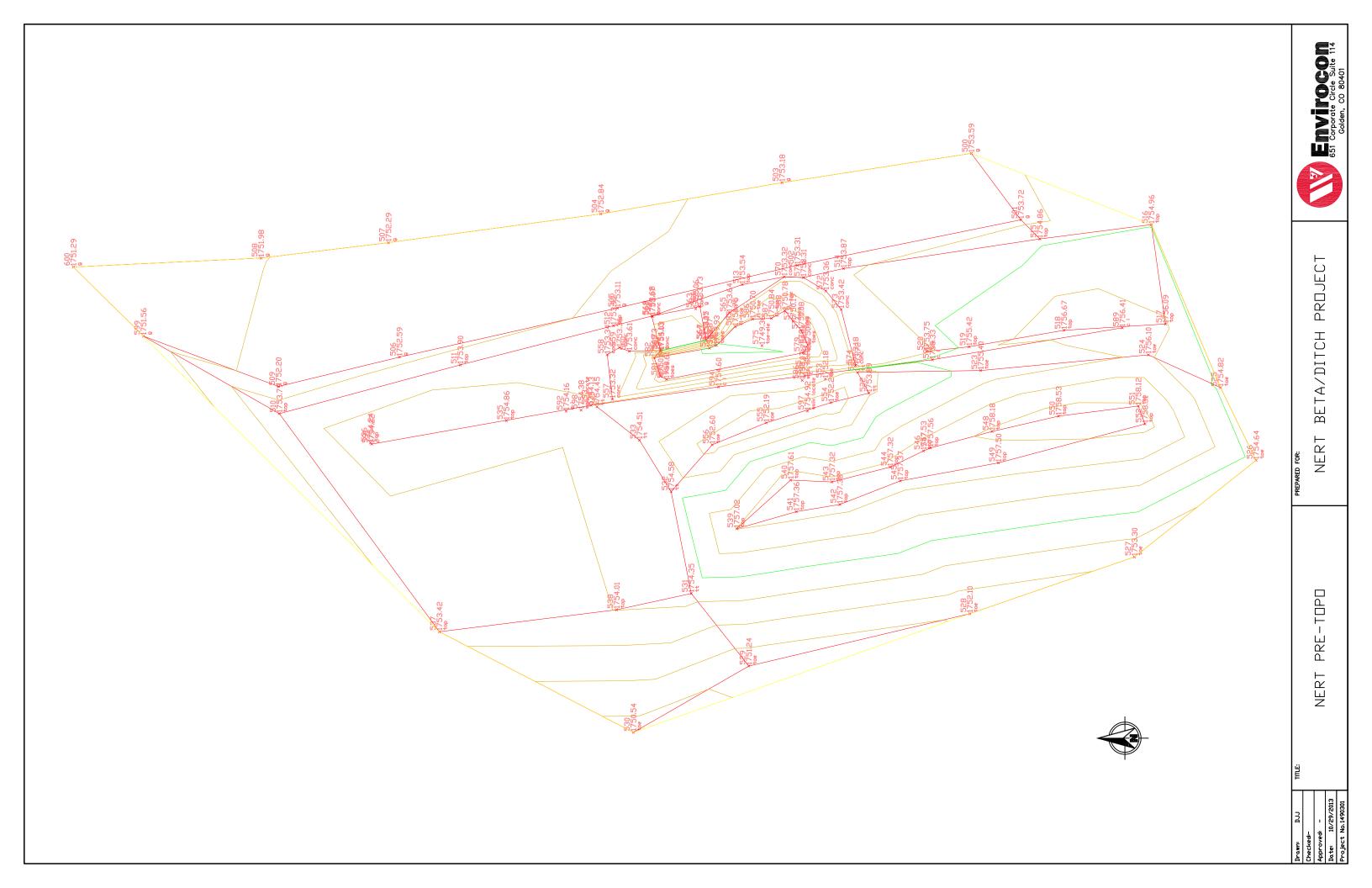
NERT EXCAVATION

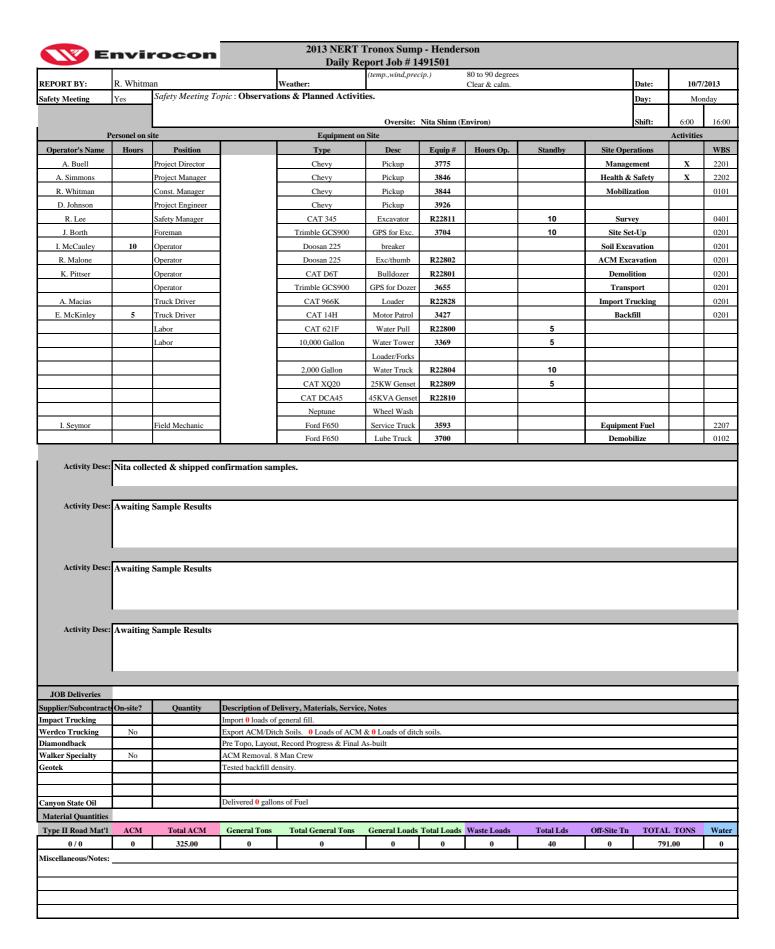
Environmente Grafe 114 Golden, CO 80401



NERT FINAL

GRADE





# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 7, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	-	N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	=	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	=	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	=		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	10.0	-	\$ 40.21	\$ 52.01	\$ 402.10	0201
R. Malone	Operator	=	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	н	=	\$ 40.21	\$ 52.01	\$ -	0201
	Operator	=	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver		-	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver		5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	=		\$ 29.10	\$ 35.60	\$ -	0201
		=		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic		-	\$ 43.00	\$ 56.12	\$ -	2201
		н		\$ -	\$ -	\$ -	

Total Labor \$ 600.60

				Standby	Onematina			
Equipment		Unit#	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54		\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	=	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	5.0	\$ 96.08	\$ 64.84	\$ 324.20	0201
10,000 Gallon	Water Tower	3369	-	5.0	\$ 4.74	\$ 3.55	\$ 17.75	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	R22809	-	5.0	\$ 12.27	\$ 4.95	\$ 24.75	0201
CAT DCA45	45KVA Genset	R22810	1	5.0	\$ 23.20	\$ 10.88	\$ 54.40	0201
Neptune	Wheel Wash		1	5.0	\$ 60.69	\$ 58.17	\$ 290.85	0201
Ford F650	Service Truck	3593	1	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ 2,274.45

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials

Subcontractors	Work Performed	Cost	Hours	Amount		WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons		\$ 106.62	\$ -	2201
Richard Whitman		\$ 106.62	\$ -	2201
Dennis Johnson		\$ 106.62	\$ -	2201
Reggie Lee		\$ 106.62	\$ -	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCalley	1	\$ 94.77	\$ 94.	77 2201

94.77 Total per diems \$

TW E	nvii	rocon		2013 NERT	_		son					
				Daily Re	port Job # 1		80 to 90 degrees			ī	ī	
REPORT BY:	R. Whitma	an		Weather:	(temp.,wind,prec	ιp.)	Clear & calm.			Date:	10/8/	2013
Safety Meeting	Yes	Safety Meeting To	opic : Observati	ons & Planned Activit	ies.					Day:	Tue	sday
						Nita Shinn (I	Environ)			Shift:	6:00	16:00
	ersonel on s			Equipment or	Site				1		Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope			WBS
A. Buell		Project Director	-	Chevy	Pickup	3775			Manage		X	2201
A. Simmons		Project Manager	-	Chevy	Pickup	3846			Health &		X	2202
R. Whitman		Const. Manager	1	Chevy	Pickup	3844			Mobiliz	ation		0101
D. Johnson		Project Engineer Safety Manager	1	Chevy CAT 345	Pickup Excavator	3926 R22811		10	Ç			0401
R. Lee J. Borth		Foreman	1	Trimble GCS900	GPS for Exc.	3704		10	Surv Site Se			0201
I. McCauley	10	Operator	1	Doosan 225	breaker	3704		10	Soil Exca			0201
R. Malone	10	Operator	1	Doosan 225	Exc/thumb	R22802			ACM Exc			0201
K. Pittser		Operator	1	CAT D6T	Bulldozer	R22801			Demol			0201
Tt. T Ruser		Operator	1	Trimble GCS900	GPS for Dozer	3655			Trans			0201
A. Macias		Truck Driver	1	CAT 966K	Loader	R22828			Import T			0201
E. McKinley	5	Truck Driver	1	CAT 14H	Motor Patrol	3427			Back			0201
		Labor	1	CAT 621F	Water Pull	R22800		5				
		Labor	1	10,000 Gallon	Water Tower	3369		5				
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804		10				
				CAT XQ20	25KW Genset	R22809		5				
				CAT DCA45	45KVA Genset	R22810		5				
			1	Neptune	Wheel Wash			5				
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipme	nt Fuel		2207
				Ford F650	Lube Truck	3700			Demol	ilize		0102
Activity Desc:	Awaiting	Sample Results t	o perform back	fill								
Activity Desc:	Awaiting	Sample Results t	o perform back	fill								
Activity Desc:	Awaiting	Sample Results t	o perform back	fill								
JOB Deliveries												
Supplier/Subcontract	On-site?	Quantity	Description of D Import 0 loads of	elivery, Materials, Service	e, Notes							
Impact Trucking Werdco Trucking	No	1		ch Soils. 0 Loads of ACM	& 0 Loads of dite	n soils						
Diamondback		<u> </u>		, Record Progress & Final								
Walker Specialty	No		ACM Removal. 8									
Geotek			Tested backfill de	nsity.								
	<del>                                     </del>											
Canyon State Oil		<u> </u>	Delivered 0 gallo	ns of Fuel								
Material Quantities			<u>.                                    </u>									
Type II Road Mat'l	ACM	Total ACM	General Tons Total General Tons General Loads Total Loads Waste Loads Total Lds Off-Site Tn TOTAL TONS Water								Water	
0 / 0	0	325.00	0	0	0	0	0	40	0		1.00	0
Miscellaneous/Notes:	-	-							-			
			-					-		-		

# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed:	See Activity Descrip	tions above					
Date Work Performed:	October 8, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager		N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager	•	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	•	N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager	•	N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	10.0	-	\$ 40.21	\$ 52.01	\$ 402.10	0201
R. Malone	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator		-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver		=	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver		5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor			\$ 29.10	\$ 35.60	\$ -	0201
	Labor			\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
				\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic		-	\$ 43.00	\$ 56.12	\$ -	2201
		_		\$ -	\$ -	\$ -	

Total Labor \$ 600.60

Equipment		Unit #	Operating Hours	Standby Hours	perating Rate	Star	ndby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54	\$	5.09	\$ -	2201
Chevy	Pickup	3846	=	-	\$ 9.54	\$	5.09	\$ -	2201
Chevy	Pickup	3844	=	-	\$ 9.54	\$	5.09	\$ -	2201
Chevy	Pickup	3926	1	1	\$ 9.54	\$	5.09	\$ -	2201
CAT 345	Excavator	R22811	1	10.0	\$ 121.29	\$	84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	3704	1	10.0	\$ 37.98	\$	36.30	\$ 363.00	0201
Doosan 225	breaker		=	ı	\$ 201.72	\$	170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	=	-	\$ 112.71	\$	85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	=	-	\$ 85.40	\$	54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	=	-	\$ 37.98	\$	36.30	\$ -	0201
CAT 966K	Loader	R22828	=	-	\$ 126.92	\$	85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$	41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	5.0	\$ 96.08	\$	64.84	\$ 324.20	0201
10,000 Gallon	Water Tower	3369	=	5.0	\$ 4.74	\$	3.55	\$ 17.75	0201
	Loader/Forks		=	-	\$ 58.89	\$	40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	=	10.0	\$ 57.17	\$	35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	R22809	-	5.0	\$ 12.27	\$	4.95	\$ 24.75	0201
CAT DCA45	45KVA Genset	R22810	-	5.0	\$ 23.20	\$	10.88	\$ 54.40	0201
Neptune	Wheel Wash		-	5.0	\$ 60.69	\$	58.17	\$ 290.85	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$	35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$	35.49	\$ -	2207

Total Equipment \$ 2,274.45

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$

Work Performed	Cost	Hours	A	mount	WBS Coding
Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Tested backfill density.	\$ -		\$	-	0201
	\$ -		\$	-	
	\$ -		\$	-	
Delivered 0 gallons of Fuel	\$ -		\$	-	2207
	Pre Topo, Layout, Record Progress & Final As-built ACM Removal. 8 Man Crew Tested backfill density.	Pre Topo, Layout, Record Progress & Final As-built   \$ - ACM Removal. 8 Man Crew   \$ 912.18	Pre Topo, Layout, Record Progress & Final As-built   \$ -     ACM Removal. 8 Man Crew   \$ 912.18     Tested backfill density.   \$ -     \$ 5 -     \$ 5 -	Pre Topo, Layout, Record Progress & Final As-built \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Pre Topo, Layout, Record Progress & Final As-built \$ - \$ - \$ - ACM Removal. 8 Man Crew \$ 912.18 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 106	.62 \$	-	2201
Richard Whitman		\$ 106	.62 \$	-	2201
Dennis Johnson		\$ 106	.62 \$	-	2201
Reggie Lee		\$ 106	.62 \$	-	2201
John Borth		\$ 94	.77 \$	-	2201
Russ Malone		\$ 94	.77 \$	-	2201
Kevin Pittser		\$ 94	.77 \$	-	2201
Ivan Seymor		\$ 94	.77 \$	-	2201
Ike McCalley	1	\$ 94	.77 \$	94.77	2201

94.77 Total per diems \$

	nvi	rocon			Tronox Sum		rson					
nenone nu	D 11/1 :				(temp.,wind,pred	rip.)	80 to 90 degrees			n .	40.00	12042
REPORT BY:	R. Whitm	1	Tonic: Observat	Weather: ions & Planned Activi	tiec		Clear & breezy.			Date:		/2013
Safety Meeting	Yes	Sujety Meeting 1	opic . Observat	ions & Fianneu Activi	ues.					Day:	Wedi	nesday
					Oversite:	Nita Shinn (	Environ)			Shift:	6:00	16:00
] 1	Personel on :	site		Equipment o		•	·				Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope	rations		WBS
A. Buell		Project Director		Chevy	Pickup	3775	8	•	Manag		X	2201
A. Simmons	2	Project Manager		Chevy	Pickup	3846			Health &		X	2202
R. Whitman	8	Const. Manager		Chevy	Pickup	3844	8		Mobiliz	ation		0101
D. Johnson		Project Engineer		Chevy	Pickup	3926						
R. Lee	8	Safety Manager		CAT 345	Excavator	R22811		10	Surv	ey		0401
J. Borth		Foreman		Trimble GCS900	GPS for Exc.	3704		10	Site Se	t-Up		0201
I. McCauley	10	Operator		Doosan 225	breaker				Soil Exca	vation		0201
R. Malone	5	Operator		Doosan 225	Exc/thumb	R22802			ACM Exc	avation		0201
K. Pittser	5	Operator		CAT D6T	Bulldozer	R22801	5		Demol	ition		0201
		Operator		Trimble GCS900	GPS for Dozer	3655	5		Trans	port		0201
A. Macias	5	Truck Driver		CAT 966K	Loader	R22828	5		Import T	rucking	X	0201
E. McKinley	10	Truck Driver		CAT 14H	Motor Patrol	3427	5		Back	fill		0201
		Labor		CAT 621F	Water Pull	R22800	5					
		Labor		10,000 Gallon	Water Tower	3369	5					
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804		10				-
			_	CAT XQ20	25KW Genset	R22809	5					-
			_	CAT DCA45	45KVA Genset	R22810	5					
			_	Neptune	Wheel Wash		5					-
I. Seymor	1	Field Mechanic	_	Ford F650	Service Truck	3593			Equipme		X	2207
				Ford F650	Lube Truck	3700	1		Demo	oilize		0102
	: Kept exc		ruck on standb	met fill material to co y until analytical resul the day (OT)								
Activity Desc	:											
JOB Deliveries												
Supplier/Subcontrac	t On-site?	Quantity	Description of I	Pelivery, Materials, Servic	e, Notes							
Impact Trucking	Yes	2	Import 15 loads	-								
Werdco Trucking	No			ch Soils. 0 Loads of ACM		soils.						
Diamondback Walker Specialty	No		ACM Removal.	t, Record Progress & Final a 8 Man Crew	as-ount							
Geotek	110	1	Tested backfill d									
		İ										
Canyon State Oil		l	Delivered 0 gallo	ons of Fuel								
Material Quantities						<u> </u>						
Type II Road Mat'l		Total ACM	General Tons	Total General Tons	General Loads			Total Lds	Off-Site Tn	1	L TONS	Water
0/0	0	325.00	595.00	595.00	15	15	0	40	0	79	1.00	0
Miscellaneous/Notes:	·											

		ronox Sump - Henderso aily Force Account Wor Estimated Costs		01					
Description of Work Performed:	See Activity Descrip	tions above							
Date Work Performed:	October 9, 2013								
Labor (Employee)	Classification	Reg Hrs	OT Hrs	R	eg Rate	-	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$	155.31		N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$	143.03		N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$	137.06		N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer		N/A	\$	110.34		N/A	\$ -	2201
R. Lee	Safety Manager	8.0	N/A	\$	115.83		N/A	\$ 926.64	2202
J. Borth	Foreman			\$	43.00	\$	56.12	\$ -	0201
I. McCauley	Operator	-	10.0	\$	40.21	\$	52.01	\$ 520.10	0201
R. Malone	Operator	5.0		\$	40.21	\$	52.01	\$ 201.05	0201
K. Pittser	Operator	5.0		\$	40.21	\$	52.01	\$ 201.05	0201
	Operator			\$	36.04	\$	45.85	\$ -	0201
A. Macias	Truck Driver	5.0		\$	31.87	\$	39.70	\$ 159.35	0201
E. McKinley	Truck Driver	10.0		\$	31.87	\$	39.70	\$ 318.70	0201
	Labor	-		\$	29.10	\$	35.60	\$ -	0201
	Labor			\$	29.10	\$	35.60	\$ -	0201
				\$	-	\$		\$ -	
		-		\$	-	\$	-	\$ -	
				\$	-	\$	-	\$ -	
		-		\$	-	\$	-	\$ -	
		-		\$	-	\$	-	\$ -	
I. Seymor	Field Mechanic	1.0		\$	43.00	\$	56.12	\$ 43.00	2201
•		-		\$	-	\$	-	\$ -	
	*					To	otal Labor	\$ 3,752,43	

				Standby	Operating			
Equipment		Unit #	Operating Hours	Hours	Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	3704	-	10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	5.0	-	\$ 85.40	\$ 54.60	\$ 427.00	0201
Trimble GCS900	GPS for Dozer	3655	5.0	-	\$ 37.98	\$ 36.30	\$ 189.90	0201
CAT 966K	Loader	R22828	5.0	-	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H	Motor Patrol	3427	5.0	-	\$ 69.89	\$ 41.46	\$ 349.45	0201
CAT 621F	Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
					Total I	Equipment	\$ 4,343.05	_

Materials (Description)	Vendor	Cos	st		Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 5 2	3.87		0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 5 1	0.13		0	\$	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 5 1	1.11	\$	595.00	\$ 6,610.45	
		\$ 3	-			\$	
		\$ 3	-			\$	
		\$ 3				\$	
	_	 7	Fotal !	Mate	rials	\$ 6,610.45	

Subcontractors	Work Performed	Cost	Hours	Ar	nount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$		
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207
		Total Sub	contractors	\$	-	

Per Diems / Mileage	Days		Rate	Amount	WBS Codin
Andrew Simmons	0.25	\$	106.62	\$ 26.60	2201
Richard Whitman	1	\$	106.62	\$ 106.63	2201
Dennis Johnson		\$	106.62	\$ -	2201
Reggie Lee	1	\$	106.62	\$ 106.62	2201
John Borth		\$	94.77	\$ -	2201
Russ Malone	0.5	\$	94.77	\$ 47.39	2201
Kevin Pittser	0.5	\$	94.77	\$ 47.39	2201
Ivan Seymor		\$	94.77	\$ -	2201
Ike McCalley	1	\$	94.77	\$ 94.7	2201
	·	Tota	l per diems	\$ 429.4	ı

Solito   Proposition   Propo	T E	nvi	rocon		2013 NERT Daily Ro	Tronox Sum eport Job # 1	-	rson					
Present on tile	REPORT BY:	R. Whitm	ian		Weather:	(temp., wind, pred	cip.)				Date:	10/10	0/2013
Personal constant   Pers	Safety Meeting	Yes	Safety Meeting T	opic: Observat	ions & Planned Activi	ties.					Day:	Thu	ırsday
Personal constant   Pers			1										
					F		Nita Shinn (	Environ)			Shift:		16:00
A. Sell				1			E #	П	S4 11	E'4 . O		Activities	
A. Simonom   2   Doyce Manager   Chevy   Pickup   Shife   Modification   Outs Ministry   N   200		Hours						Hours Op.	Standby			v	
R. Millerand   Count Manager   Chevy   Pickup   3844		,			•								2201
D. Abdronom   Privace Engineer   R. Lee   Softy Manager   Software   Softwa		_										А	0101
R. Lee										NIODIIZ	ation		0101
J. Borh   Storman   Franks CG 5900   GF Ser Eac.   3794   10   Site Set-Up   0.0   1.0									10	Surv	ev		0401
1. McCarley   19   Operator   Dosonal 225   Freedort   Dosonal 225   Do													0201
R. Moloce		10											0201
CAT DOT   Dublabors   Dublab	•						R22802						0201
Operator													0201
A. Macias   Track Driver   CAT 966K   Loder   R.22828   Import Trucking   0.02													0201
E. McKinley	A. Macias												0201
Labor   Labo		10											0201
Labor   Labo													
CAT NCQ20   25KW Genete   R22804   10									5				
2,000 Gallon   Water Track   R22804   10					10,000								
CAT XQ20    25KW Genset					2.000 Gallon		R22804		10				
CAT DCA45   45KVA Gence   R22810   5													
Neptune   Wheel Wash   5   Equipment Fuel   220													
Seymor   Field Mechanic   Ford F650   Service Truck   3593   Equipment Fuel   222   Demobilize   011													
Activity Desc:  Activity Desc:    Description of Delivery Materials   Description of Delivery Materials   Service   No	I. Sevmor		Field Mechanic				3593			Equipme	nt Fuel		2207
Activity Desc:  No import today - awaiting to level existing stockpiled materials  Activity Desc:  2000 gallon water truck and 345 excavator/GPS and driver/operator on standby until notice to release received from Environ  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  DIOB Deliveries  Supplier/Subcontract  On-site?  Quantity  Description of Delivery, Materials, Service, Notes Import Ploads of general fill Import Olaski of fill Import Olas													0102
Supplier/Subcontract   On-site?   Quantity   Description of Delivery, Materials, Service, Notes   Import 0 loads of general fill.	·												
Supplier/Subcontract   On-site?   Quantity   Description of Delivery, Materials, Service, Notes   Import 0 loads of general fill.													
Import   Olasds of general fill.		0- 0-	0	December 1	Adinom Mat 21 C	a Natas							
No			Quantity	_		e, Notes							
Pre Topo, Layout, Record Progress & Final As-built	Werdco Trucking	_	İ			& 0 Loads of ditch	soils.						
Tested backfill density.	Diamondback												
Delivered 0 gallons of Fuel	Walker Specialty	No											
Material Quantities           Type II Road Mat1         ACM         Total ACM         General Tons         Total General Tons         General Loads         Total Loads         Total Lds         Off-Site Tn         TOTAL TONS         Waterial Quantities           0 / 0         0         325.00         0         595.00         0         15         0         40         0         791.00         0	Geotek	1	1	Tested backfill d	ensity.								
Material Quantities           Type II Road Mat1         ACM         Total ACM         General Tons         Total General Tons         General Loads         Total Loads         Total Lds         Off-Site Tn         TOTAL TONS         Waterial Quantities           0 / 0         0         325.00         0         595.00         0         15         0         40         0         791.00         0		1	ł	1									
Material Quantities           Type II Road Mat1         ACM         Total ACM         General Tons         Total General Tons         General Loads         Total Loads         Total Lds         Off-Site Tn         TOTAL TONS         Waterial Quantities           0 / 0         0         325.00         0         595.00         0         15         0         40         0         791.00         0	Canvon State Oil	<b>†</b>	1	Delivered 0 gallo	ons of Fuel								
Type II Road Mat¹         ACM         Total ACM         General Tons         Total General Tons         General Loads         Total Loads         Total Lds         Off-Site Tn         TOTAL TONS         Waster           0 / 0         0         325.00         0         595.00         0         15         0         40         0         791.00         0			•										
0/0 0 325.00 0 595.00 0 15 0 40 0 791.00 0		ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL	L TONS	Wate
			1	1									0
TIENDIEROOS (VAS)		•	525.00	·	223,00		1.0	. ,	40		,		
	· Liscenancous : (otes.												

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 10, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate WBS Coding N/A N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 A. Buell A. Simmons Project Director Project Manager N/A N/A 2.0 286.06 R. Whitman Const. Manager Project Engineer Safety Manager N/A \$ 110.34 \$ 115.83 D. Johnson R. Lee N/A 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ J. Borth I. McCauley R. Malone Foreman Operator 520.10 10.0 Operator K. Pittser Operator Operator 0201 0201 A. Macias Truck Driver 31.87 \$ 0201 \$ 31.87 \$ 29.10 \$ 29.10 \$ 0201 0201 0201 E. McKinley Truck Driver Labor 10.0 39.70 \$ 35.60 \$ 318.70 Labor 35.60 \$ Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor Total Labor \$

				Standby	On	erating				
Equipment		Unit #	Operating Hours	Hours	-	Rate	Standby Rat	е	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$	9.54	\$ 5.09	\$	-	2201
Chevy	Pickup	3846		-	\$	9.54	\$ 5.09	\$	-	2201
Chevy	Pickup	3844	-	-	\$	9.54	\$ 5.09	\$	-	2201
Chevy	Pickup	3926	-	-	\$	9.54	\$ 5.09	\$	-	2201
CAT 345	Excavator	R22811	-	10.0	\$	121.29	\$ 84.46	\$	844.60	0201
Trimble GCS900	GPS for Exc.	3704	-	10.0	\$	37.98	\$ 36.30	\$	363.00	0201
Doosan 225	breaker			-	\$	201.72	\$ 170.63	\$	-	0201
Doosan 225	Exc/thumb	R22802	-	-	\$	112.71	\$ 85.31	\$	-	0201
CAT D6T	Bulldozer	R22801		-	\$	85.40	\$ 54.60	\$	-	0201
Trimble GCS900	GPS for Dozer	3655		-	\$	37.98	\$ 36.30	\$	-	0201
CAT 966K	Loader	R22828	5.0	-	\$	126.92	\$ 85.31	\$	634.60	0201
CAT 14H	Motor Patrol	3427		-	\$	69.89	\$ 41.46	\$	-	0201
CAT 621F	Water Pull	R22800		-	\$	96.08	\$ 64.84	\$	-	0201
10,000 Gallon	Water Tower	3369	-	5.0	\$	4.74	\$ 3.55	\$	17.75	0201
	Loader/Forks			-	\$	58.89	\$ 40.54	\$	-	0201
2,000 Gallon	Water Truck	R22804	-	10.0	\$	57.17	\$ 35.49	\$	354.90	0201
CAT XQ20	25KW Genset	R22809	-	5.0	\$	12.27	\$ 4.95	\$	24.75	0201
CAT DCA45	45KVA Genset	R22810	-	5.0	\$	23.20	\$ 10.88	\$	54.40	0201
Neptune	Wheel Wash			5.0	\$	60.69	\$ 58.17	\$	290.85	0201
Ford F650	Service Truck	3593		-	\$	42.42	\$ 35.83	\$	-	0201
Ford F650	Lube Truck	3700	-	-	\$	42.06	\$ 35.49	\$	-	2207
						Total E	quipment	\$	2,584.85	

1,124.86

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
	_	Total	Materials	\$ -	

Subcontractors	Work Performed	Cost	Hours	Amou	nt	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
	·	\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207
		Total Sub	contractors	\$	-	

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman		\$ 106.62	\$	-	2201

REPORT BY:  R. Whitman  Safety Meeting  Personel on site  Operator's Name A. Buell A. Buell Project Director A. Simmons Project Director A. Simmons Project Engineer R. Whitman R. Lee Safety Manager J. Borth Foreman I. McCauley Poperator R. Malone Foreman I. McCauley Poperator A. Macias First Goperator A			eport Job # 1						
Personel on site  Operator's Name A. Buell Project Director A. Simmons Project Engineer R. Whitman Safety Manager D. Johnson Project Engineer R. Lee Safety Manager J. Borth Foreman I. McCauley Operator R. Malone Goperator R. Hasias Gorator R. Hasias Gorator R. Macias Gorator R. Mac		Weather:	(temp., wind, pred	rip.)	70 to 80 degrees		Date:	10/1:	1/2013
Personel on site  Operator's Name A. Buell Project Director A. Simmons 2 Project Manager R. Whitman 8 Const. Manager D. Johnson 4 Project Engineer R. Lee 8 Safety Manager J. Borth 6 Foreman I. McCauley Operator R. Malone 6 Operator R. Malone 6 Operator R. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of the Surveyed the bottom of the Surveyed the bottom of the Surveyed the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the Surveyed the search lift was tested for continuous to the search lift was tested for continuo	Topic : Observa	tions & Planned Activi	ties.		Clear & breezy.		Day:		iday
Departor's Name									
Departor's Name		Equipment o		Nita Shinn (I	Environ) & Kris	Everett (LS)	Shift:	6:00	16:0
A. Buell Project Director A. Simmons 2 Project Manager R. Whitman 8 Const. Manager D. Johnson 4 Project Engineer R. Lee 8 Safety Manager J. Borth 6 Foreman I. McCauley Operator R. Malone 6 Operator K. Pittser 6 Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of a Mechanic fueled act hift wis Each lift was tested for continuous to the continuous the contin		Туре	Desc	Equip #	Hours Op.	Standby	Site Operations	Activities	WB
A. Simmons 2 Project Manager R. Whitman 8 Const. Manager D. Johnson 4 Project Engineer R. Lee 8 Safety Manager J. Borth 6 Foreman I. McCauley Operator R. Malone 6 Operator K. Pittser 6 Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Moved cement barricad Wheel rolled each lift wis Each lift was tested for company of the comp		Chevy	Pickup	3775	8	Standby	Management	х	220
R. Whitman 8 Const. Manager D. Johnson 4 Project Engineer R. Lee 8 Safety Manager J. Borth 6 Foreman I. McCauley Operator R. Malone 6 Operator K. Pittser 6 Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Moved cement barricad Wheel rolled each lift wire Each lift was tested for continuous and the embedding full of the embedd		Chevy	Pickup	3846	Ü		Health & Safety	x	220
D. Johnson 4 Project Engineer R. Lee 8 Safety Manager J. Borth 6 Foreman I. McCauley Operator R. Malone 6 Operator K. Pittser 6 Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of or Surveyed the bottom of or Surveyed the bottom of or Surveyed the bottom of or Surveyed the bottom of or Surveyed the bottom of or Surveyed the state of the Carlotte of Surveyed the service of the Surveyed the service of Surveyed the		Chevy	Pickup	3844	8		Mobilization		010
R. Lee 8 Safety Manager  J. Borth 6 Foreman  I. McCauley Operator  R. Malone 6 Operator  K. Pittser 6 Operator  A. Macias 6 Truck Driver  E. McKinley 10 Truck Driver  Labor  Labor  Labor  I. Seymor 1 Field Mechanic  I. Seymor 1 Field Mechanic  Activity Desc: Moved cement barricad Wheel rolled each lift wire Each lift was tested for of the Carlotty Descible Canada Control of the Carlotty Descible Carlotty		Chevy	Pickup	3926	·		Modification		- 010
J. Borth 6 Foreman  I. McCauley Operator  R. Malone 6 Operator  K. Pittser 6 Operator  A. Macias 6 Truck Driver  E. McKinley 10 Truck Driver  Labor  Labor  I. Seymor 1 Field Mechanic  Activity Desc:  Moved cement barricad Wheel rolled each lift with Each lift was tested for company of the c		CAT 345	Excavator	R22811		10	Survey		040
I. McCauley R. Malone 6 Operator R. Malone 6 Operator Compensor R. Pittser 6 Operator Operator A. Macias 6 Truck Driver Labor Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Moved cement barricad Wheel rolled each lift wi Each lift was tested for compensor Activity Desc: Kept excavator & water Mechanic fueled at the e  Activity Desc: Series on Series Activity Desc: Activ		Trimble GCS900	GPS for Exc.	3704		10	Site Set-Up		020
R. Malone 6 Operator K. Pittser 6 Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor  Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of a Method of the Company of the		Doosan 225	breaker	2701		.,	Soil Excavation		020
K. Pittser 6 Operator Operator A. Macias 6 Truck Driver E. McKinley 10 Truck Driver Labor Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of of the bottom of the bott		Doosan 225	Exc/thumb	R22802			ACM Excavation		020
A. Macias 6 Truck Driver  E. McKinley 10 Truck Driver Labor  Labor  Labor  1. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of or Surveyed the bottom of the Surveyed the bo		CAT D6T	Bulldozer	R22801	6	4	Demolition		020
A. Macias 6 Truck Driver  E. McKinley 10 Truck Driver  Labor  Labor  Labor  Labor  Labor  Labor  Labor  Labor  Labor  I. Seymor 1 Field Mechanic  Activity Desc: Received approval to be Surveyed the bottom of a Surveyed th		Trimble GCS900	GPS for Dozer	3655	6	4	Transport		020
E. McKinley  10 Truck Driver Labor  Labor  Labor  1. Seymor  1 Field Mechanic  Received approval to be Surveyed the bottom of the surveyed the surveyed the bottom of the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surve		CAT 966K	Loader	R22828	6	4	Import Trucking	X	020
Labor  Labor  Labor  Labor  Labor  I. Seymor  1 Field Mechanic  Received approval to be Surveyed the bottom of or the surveyed the bottom of the surveyed the surveyed the bottom of the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the surveyed the su		CAT 986K CAT 14H	Motor Patrol	3427	6	7	Backfill	X	020
Labor  I. Seymor  I. Field Mechanic  Received approval to be Surveyed the bottom of a Metivity Desc:  Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Mechanic fueled at the e Mechanic fueled	_	CAT 621F	Water Pull	R22800	6		Dackilli	А	020
Activity Desc: Received approval to be Surveyed the bottom of a Mattivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift wis Each lift was tested for a Mattivity Desc: Kept excavator & water Mechanic fueled at the e		10,000 Gallon	Water Tower	3369	5				+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Metivity Desc: Kept excavator & water Mechanic fueled at the e M	_	10,000 Gallon		3309	3				+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Metivity Desc: Kept excavator & water Mechanic fueled at the e M		2.000 (7.11	Loader/Forks	D22004		40			+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Metivity Desc: Kept excavator & water Mechanic fueled at the e M	_	2,000 Gallon	Water Truck	R22804	-	10			+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Activity Desc: Kept excavator & water Mechanic fueled at the e M	-	CAT XQ20	25KW Genset	R22809	5				+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Metivity Desc: Kept excavator & water Mechanic fueled at the e M	-	CAT DCA45	45KVA Genset	R22810	5				+
Activity Desc: Received approval to be Surveyed the bottom of a Surveyed the bottom of a Metivity Desc: Imported fill material. E Moved cement barricad Wheel rolled each lift with Each lift was tested for a Metivity Desc: Kept excavator & water Mechanic fueled at the e M	-	Neptune	Wheel Wash		5				+
Surveyed the bottom of of Moved cement barricad. Wheel rolled each lift wis Each lift was tested for of Moved cement barricad. Wheel rolled each lift wis Each lift was tested for of Moved cement barricad. Wheel rolled each lift wis Each lift was tested for of Moved cement barricad. The waste of the Moved cement barricad. The waste of the Moved cement barricad wheel at the each lift waste of the Moved cement barricad waste of the Mov		Ford F650 Ford F650	Service Truck  Lube Truck	3593 3700	1		Equipment Fuel Demobilize	X	220 010
Mechanic fueled at the e  Activity Desc:  JOB Deliveries  upplier/Subcontract Upplier/	s, & began bacl h loader & deliv	xfilling excavation with vered material as it was	bulldozer.	ioi a water	pun.				
JOB Deliveries  upplier/Subcontract On-site? Quantity mpact Trucking Yes 1  Verdco Trucking No  immondback Yes 1  Valker Specialty No ogistic Solutions Yes 1  anyon State Oil		y until decision was ma	nde about eleva	ed arsenic i	n sample.				
upplier/Subcontract On-site? Quantity mpact Trucking Yes 1 Verdco Trucking No immondback Yes 1 Valker Specialty No ogistic Solutions Yes 1 anyon State Oil									
mpact Trucking Yes 1  Werdco Trucking No  Jiamondback Yes 1  Valker Specialty No  ogistic Solutions Yes 1  Zanyon State Oil									
Verdeo Trucking No Diamondback Yes 1 Valker Specialty No ogistic Solutions Yes 1  Canyon State Oil	_	Delivery, Materials, Service	ce, Notes						
Maimondback Yes 1  Valker Specialty No Ogistic Solutions Yes 1  Canyon State Oil	Import 9 loads of		I & A I nede of the	h eoile					
Valker Specialty No ogistic Solutions Yes 1  Canyon State Oil		itch Soils. 0 Loads of ACM it, Record Progress & Final		n solis.					
Canyon State Oil	ACM Removal.		As-built						
Canyon State Oil	Tested backfill								
Material Quantities	Delivered 0 gal	ons of Fuel							
Type II Road Mat'l ACM Total ACM	General Tons		General Loads	Total Loads	Waste Loads	Total Lds	1 1	L TONS	Wat
0 / 0 0 325.00	421.00	1,016.00	9	24	0	40	0 7	91.00	X
Miscellaneous/Notes:									

# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs See Activity Descriptions above

Description of Work Performed:

Date Work Performed:	October 11, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	R	eg Rate	Ī	OT Rate	Amount	WBS Coding
A. Buell	Project Director		N/A	\$	155.31		N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$	143.03		N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$	137.06		N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	4.0	N/A	\$	110.34		N/A	\$ 441.36	2201
R. Lee	Safety Manager	8.0	N/A	\$	115.83		N/A	\$ 926.64	2202
J. Borth	Foreman		6.0	\$	43.00	\$	56.12	\$	0201
I. McCauley	Operator		-	\$	40.21	\$	52.01	\$	0201
R. Malone	Operator		6.0	\$	40.21	\$	52.01	\$	0201
K. Pittser	Operator		6.0	\$	40.21	\$	52.01	\$ 312.06	0201
	Operator		-	\$	36.04	\$	45.85	\$	0201
A. Macias	Truck Driver		6.0	\$	31.87	\$	39.70	\$ 238.20	0201
E. McKinley	Truck Driver		10.0	\$	31.87	\$	39.70	\$ 397.00	0201
	Labor		-	\$	29.10	\$	35.60	\$	0201
	Labor		-	\$	29.10	\$	35.60	\$	0201
			-	\$	-	\$	-	\$	
			-	\$	-	\$	-	\$	
			-	\$	-	\$	-	\$	
			-	\$	-	\$	-	\$ -	
			-	\$	-	\$	-	\$ -	
I. Seymor	Field Mechanic		1.0	\$	43.00	\$	56.12	\$ 56.12	2201
				\$	-	\$	-	\$	

Total Labor \$ 3,753.92

Equipment		Unit#	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811		10.0	\$ 121.29	\$ 84.46	\$ 844.60	0201
Trimble GCS900	GPS for Exc.	3704		10.0	\$ 37.98	\$ 36.30	\$ 363.00	0201
Doosan 225	breaker			-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802		-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	6.0	4.0	\$ 85.40	\$ 54.60	\$ 730.80	0201
Trimble GCS900	GPS for Dozer	3655	6.0	4.0	\$ 37.98	\$ 36.30	\$ 373.08	0201
CAT 966K	Loader	R22828	1.0	4.0	\$ 126.92	\$ 85.31	\$ 468.16	0201
CAT 14H	Motor Patrol	3427	6.0	-	\$ 69.89	\$ 41.46	\$ 419.34	0201
CAT 621F	Water Pull	R22800	6.0	-	\$ 96.08	\$ 64.84	\$ 576.48	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	10.0	\$ 57.17	\$ 35.49	\$ 354.90	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207

42.06 \$ 35.49 \$ 42.06 Total Equipment \$ 4,829.56

Materials (Description)	Vendor	(	Cost	T	ons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$	23.87		0	\$ -	
Transport SW to Apex	Werdco Trucking	\$	10.13		0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$	11.11	\$	421.00	\$ 4,677.31	
		\$				\$ -	
		\$				\$ -	
		\$	-			\$ -	

Total Materials \$ 4,677.31

Subcontractors	Work Performed	Cost	Hours	Am	ount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Logistic Solutions	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	S -		\$	-	2207

Total Subcontractors \$

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman	1	\$ 106.62	\$	106.62	2201

	nvi	rocon		2013 NERT	Tronox Sum eport Job # 1		rson					
DEDORT BY	R. Whitm				(temp.,wind,pred		80 to 90 degree	3		Data	10/12	12012
REPORT BY:	No No	Safety Meeting T	onic:.	Weather:			Clear & breezy.			Date: Day:	1	2/2013 urday
Safety Meeting	NO	1								Day:	Satu	irday
_					Oversite:	Nita Shinn (	Environ) & Kris	Everett (LS)		Shift:	6:00	16:00
	Personel on :	site		Equipment or	n Site		1				Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope	rations		WBS
A. Buell		Project Director		Chevy	Pickup	3775			Manage	ement		2201
A. Simmons		Project Manager		Chevy	Pickup	3846			Health &	Safety		2202
R. Whitman		Const. Manager		Chevy	Pickup	3844			Mobiliz	ation		0101
D. Johnson		Project Engineer		Chevy	Pickup	3926						
R. Lee		Safety Manager		CAT 345	Excavator	R22811			Surv	ey		0401
J. Borth		Foreman		Trimble GCS900	GPS for Exc.	3704			Site Se	t-Up		0201
I. McCauley		Operator		Doosan 225	breaker				Soil Exca	vation		0201
R. Malone		Operator		Doosan 225	Exc/thumb	R22802			ACM Exc	avation		0201
K. Pittser		Operator		CAT D6T	Bulldozer	R22801			Demol	ition		0201
		Operator		Trimble GCS900	GPS for Dozer	3655			Trans	port		0201
A. Macias		Truck Driver		CAT 966K	Loader	R22828			Import T	rucking		0201
E. McKinley		Truck Driver		CAT 14H	Motor Patrol	3427			Back	fill		0201
		Labor		CAT 621F	Water Pull	R22800						
		Labor		10,000 Gallon	Water Tower	3369						
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804						
				CAT XQ20	25KW Genset	R22809						
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipme	nt Fuel		2207
				Ford F650	Lube Truck	3700			Demol			0102
Activity Desc	:											
Activity Desc	:											
												_
Activity Desc	:											
JOB Deliveries												
Supplier/Subcontrac	t On-cito?	Quantity	Description of I	Delivery, Materials, Service	Notes							
Impact Trucking	No	Quantity	Import 0 loads of		e, notes							
Werdco Trucking	No			tch Soils. 0 Loads of ACM	& 0 Loads of ditch	soils.						
Diamondback	No			t, Record Progress & Final A								
Walker Specialty	No		ACM Removal.	8 Man Crew								
Logistic Solutions	No	Į	Tested backfill d	ensity.								
C			Daliyarad 0 galle	one of Evol								
Canyon State Oil			Delivered 0 gallo	nis of Fuci								
Material Quantities		m. a. l. cos	G 1m	T-4-1-G- 1-T	G	m.4.17	TV	T	OFF CT: TT	mom:	I mosto	W.
Type II Road Mat'l		Total ACM	General Tons	Total General Tons	General Loads		1	Total Lds	Off-Site Tn		L TONS	Water
0/0	0	324.96	0	1,015.64	0	24	0	40	0	79	0.50	X
Miscellaneous/Notes	:											
I												

Client rep:\_\_\_

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 12, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate Amount WBS Coding N/A N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 \$ 110.34 \$ 115.83 A. Buell A. Simmons Project Director Project Manager N/A \$ N/A \$ R. Whitman Const. Manager Project Engineer Safety Manager N/A D. Johnson R. Lee N/A 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ 31.87 \$ 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ J. Borth I. McCauley R. Malone Foreman Operator Operator Operator Operator Truck Driver K. Pittser 0201 0201 A. Macias \$ 0201 31.87 \$ 29.10 \$ 29.10 \$ 0201 0201 0201 E. McKinley Truck Driver Labor 39.70 \$ 35.60 \$ 35.60 \$ Labor Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor

Total Labor \$ -

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704		-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802		-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828		-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800		-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369		-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804		-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809		-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810		-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash			-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		S -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	A	mount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Logistic Solutions	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 107.00	\$	-	2201
Richard Whitman		\$ 107.00	S	-	2201

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Summary Estimated Costs for Week Ending 10/13/2013

Date Work Performed:									
Labor (Employee)	Classification	Reg Hrs	OT Hrs	F	Reg Rate	C	T Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$	155.31		N/A	\$ -	2201
A. Simmons	Project Manager	6.0	N/A	\$	143.03		N/A	\$ 858.18	2201
R. Whitman	Superintendent	16.0	N/A	\$	137.06		N/A	\$ 2,192.96	2201
D. Johnson	Project Engineer	4.0	N/A	\$	110.34		N/A	\$ 441.36	2201
R. Lee	Safety Manager	16.0	N/A	\$	115.83		N/A	\$ 1,853.28	2202
J. Borth	Foreman	-	6.0	\$	43.00	\$	56.12	\$ 336.72	0201
I. McCauley	Operator	20.0	20.0	\$	40.21	\$	52.01	\$ 1,844.40	0201
R. Malone	Operator	5.0	6.0	\$	40.21	\$	52.01	\$ 513.11	0201
K. Pittser	Operator	5.0	6.0	\$	40.21	\$	52.01	\$ 513.11	0201
A. Macias	Driver	5.0	6.0	\$	31.87	\$	39.70	\$ 397.55	0201
E. McKinley	Driver	20.0	20.0	\$	31.87	\$	39.70	\$ 1,431.40	0201
	Laborer	-	-	\$	29.10	\$	35.60	\$ -	0201
	Laborer	-	-	\$	29.10	\$	35.60	\$ -	0201
I. Seymor	Field Mechanic	1.0	1.0	\$	43.00	\$	56.12	\$ 99.12	2201
	· ·	-	-	\$	-	\$	-	\$ -	

Total Labor \$ 10,481.19

			Ct 11			1			
	TT ** #	Operating	Standby Hours	(	Operating Rate	C4nm	Jh., Data		was a r
Equipment	Unit #	Hours	nours				dby Rate	Amount	WBS Coding
Chevy Pickup	3775	16.0	-	\$	9.54	\$	5.09	\$ 152.64	2201
Chevy Pickup	3846	-	-	\$	9.54	\$	5.09	\$ -	2201
Chevy Pickup	3844	16.0	-	\$	9.54	\$	5.09	\$ 152.64	2201
Chevy Pickup	3926	-	-	\$	9.54	\$	5.09	\$ -	2201
CAT 345 Excavator	R22811	-	50.0	\$	121.29	\$	84.46	\$ 4,223.00	0201
Trimble GCS900 for Excavator	3704	-	50.0	\$	37.98	\$	36.30	\$ 1,815.00	0201
Doosan 210 with Breaker		-	-	\$	201.72	\$	170.63	\$ -	0201
Doosan 210 with Thumb		-	-	\$	112.71	\$	85.31	\$ -	0201
CAT D6T Bulldozer	R22801	11.0	4.0	\$	85.40	\$	54.60	\$ 1,157.80	0201
Trimble GCS900 for Bulldozer	3655	11.0	4.0	\$	37.98	\$	36.30	\$ 562.98	0201
CAT 966K Front-end Loader	R22828	11.0	4.0	\$	126.92	\$	85.31	\$ 1,737.36	0201
CAT 14H Motor Patrol	3427	11.0	-	\$	69.89	\$	41.46	\$ 768.79	0201
CAT 621F Water Pull	R22800	11.0	10.0	\$	96.08	\$	64.84	\$ 1,705.28	0201
10,000 Gallon Water Tower	3369	10.0	15.0	\$	4.74	\$	3.55	\$ 100.65	0201
2,000 Gallon Water Truck	R22804	-	50.0	\$	57.17	\$	35.49	\$ 1,774.50	0201
CAT XQ20 Generator	R22809	10.0	15.0	\$	12.27	\$	4.95	\$ 196.95	0201
CAT DCA45 Generator	R22810	10.0	15.0	\$	23.20	\$	10.88	\$ 395.20	0201
Neptune Wheel Wash		10.0	15.0	\$	60.69	\$	58.17	\$ 1,479.45	0201
Ford F650 Service Truck	3593	-	-	\$	42.42	\$	35.83	\$ -	2201
Ford F650 Lube Truck	3700	2.0	-	\$	42.06	\$	35.49	\$ 84.12	2201

Total Equipment \$ 16,306.36

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Walker Specialty 8 Man Crew	ACM Removal	\$ 912.18	-	\$ -	0201
Diamondback	Surveyor	\$	-	\$ -	0401
Geotek	Density Testing	\$	-	\$ -	0201
				_	

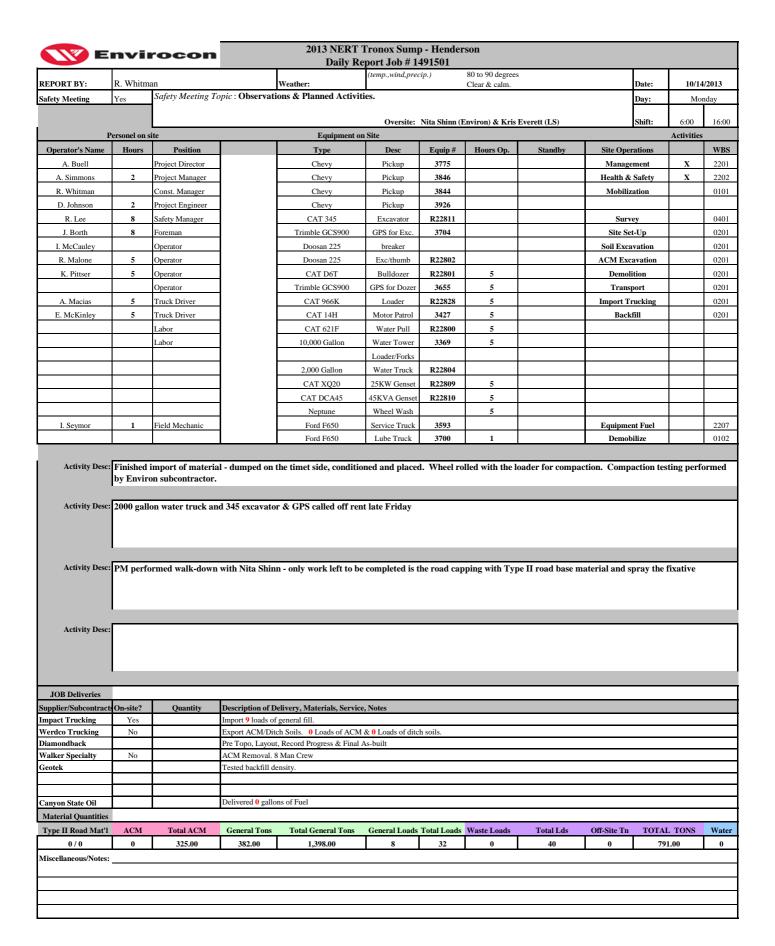
Total Subcontractors \$ -

Materials (Description)	Vendor	Cost		Ton	Amount		WBS Coding
Transport ACM to Apex	Werdco Trucking	\$	23.87	-	\$	-	0201
Transport SW to Apex	Werdco Trucking	\$	10.13	-	\$	-	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$	11.11	1,016.0	\$	11,287.76	0201
Demob Doosan w/ breaker	Neff Rental	\$	426.67	1	\$	426.67	0102

Total Materials \$ 11,714.43

Per Diems / Mileage	Days		Rate	Amount	WBS Coding
Andrew Simmons	0.75	\$	106.62	\$ 79.97	2201
Richard Whitman	2.0	\$	106.62	\$ 213.24	2201
Dennis Johnson	0.5	\$	106.62	\$ 53.31	2201
Reggie Lee	2.0	\$	106.62	\$ 213.24	2201
John Borth	0.5	\$	94.77	\$ 47.39	2201
Russ Malone	1.0	\$	94.77	\$ 94.77	2201
Kevin Pittser	1.0	\$	94.77	\$ 94.77	2201
Ivan Seymor	-	\$	94.77	\$ -	2201
Ike McCalley	4.0	\$	94.77	\$ 379.08	2201

Total per diems \$ 1,175.76



# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed: October 14, 2013

Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	8.0		\$ 43.00	\$ 56.12	\$ 344.00	0201
I. McCauley	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	5.0	5.0	\$ 40.21	\$ 52.01	\$ 201.05	0201
K. Pittser	Operator	5.0	5.0	\$ 40.21	\$ 52.01	\$ 461.10	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver		5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
E. McKinley	Truck Driver		5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-	<u> </u>	\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic		1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201
		-		\$ -	\$ -	\$ -	

Total Labor \$ 2,892.65

Equipment		Unit#	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	=	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	ı	Ü	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	T.	Ü	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926		1	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	=	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	ı	Ü	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		ı	Ü	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	=	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	5.0	-	\$ 85.40	\$ 54.60	\$ 427.00	0201
Trimble GCS900	GPS for Dozer	3655	5.0	-	\$ 37.98	\$ 36.30	\$ 189.90	0201
CAT 966K	Loader	R22828	5.0	Ü	\$ 126.92	\$ 85.31	\$ 634.60	0201
CAT 14H	Motor Patrol	3427	5.0	-	\$ 69.89	\$ 41.46	\$ 349.45	0201
CAT 621F	Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	1	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	1	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593	-	1	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0		\$ 42.06	\$ 35.49	\$ 42.06	2207

Total Equipment \$ 2,627.91

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ 382.00	\$ 4,244.02	!
		\$ -		\$ -	
		\$ =		\$ -	
		\$ -		\$ -	

\$ 4,244.02 Total Materials

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26	66 2201
Richard Whitman		\$ 106.62	\$	2201
Dennis Johnson	0.25	\$ 106.62	\$ 26	66 2201
Reggie Lee	1	\$ 106.62	\$ 106	62 2201
John Borth	1	\$ 94.77	\$ 94	77 2201
Russ Malone	0.5	\$ 94.77	\$ 47	39 2201
Kevin Pittser	0.5	\$ 94.77	\$ 47	39 2201
Ivan Seymor		\$ 94.77	\$	2201
Ike McCalley		\$ 94.77	\$	2201

Total per diems \$ 349.47

E	nvi	rocon		2013 NERT 7			rson					
				Daily Re	port Job # 1 (temp.,wind,pred		80 to 90 degrees			ı	l	
REPORT BY:	R. Whitm	an		Weather:	(remp.,mma,pres	···p··/	Clear & calm.			Date:	10/15	/2013
Safety Meeting	Yes	Safety Meeting To	opic : Observati	ons & Planned Activit	ies.					Day:	Tue	sday
						Nita Shinn (I	Environ)			Shift:	6:00	16:00
	ersonel on s			Equipment or							Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope			WBS
A. Buell		Project Director	-	Chevy	Pickup	3775			Manage		X	2201
A. Simmons	1	Project Manager	-	Chevy	Pickup	3846			Health &		X	2202
R. Whitman		Const. Manager	4	Chevy	Pickup	3844			Mobiliz	ation		0101
D. Johnson	8	Project Engineer	-	Chevy	Pickup	3926			_			
R. Lee	1	Safety Manager	1	CAT 345	Excavator	R22811			Surv			0401
J. Borth		Foreman	1	Trimble GCS900	GPS for Exc.	3704			Site Se			0201
I. McCauley		Operator	-	Doosan 225	breaker				Soil Exca			0201
R. Malone		Operator	-	Doosan 225	Exc/thumb	R22802			ACM Exc			0201
K. Pittser	2	Operator	-	CAT D6T	Bulldozer	R22801			Demol			0201
		Operator	1	Trimble GCS900	GPS for Dozer	3655			Trans			0201
A. Macias	2	Truck Driver	-	CAT 966K	Loader	R22828			Import T			0201
E. McKinley		Truck Driver	-	CAT 14H	Motor Patrol	3427	2		Back	fill	X	0201
		Labor	1	CAT 621F	Water Pull	R22800	2					
		Labor	1	10,000 Gallon	Water Tower	3369	2					
			-		Loader/Forks							
			-	2,000 Gallon	Water Truck	R22804						
			-	CAT XQ20	25KW Genset	R22809						
			1	CAT DCA45	45KVA Genset	R22810	2					
			-	Neptune	Wheel Wash		2					
I. Seymor		Field Mechanic	-	Ford F650	Service Truck	3593			Equipme			2207
				Ford F650	Lube Truck	3700			Demol	oilize		0102
Activity Desc:	no furthe	er activities today										
Activity Desc:	no furthe	er activities today										
Activity Desc:	no furthe	er activities today										
JOB Deliveries												
Supplier/Subcontract	On-site?	Quantity		elivery, Materials, Service	, Notes							
Impact Trucking	.,		Import 0 loads of	general fill.  th Soils. 0 Loads of ACM	0- A T 1 C T'	l						
Werdco Trucking Diamondback	No		<del> </del>	, Record Progress & Final A		n sous.						
Walker Specialty	No		ACM Removal. 8		LO OUIII							
Geotek			Tested backfill de									
Impact Trucking	Yes	38	Import 1 load of	Type II Road Base to recap	the western boun	dary road						
Canyon State Oil			Delivered 0 gallor	ns of Fuel								
Material Quantities												
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads			Total Lds	Off-Site Tn		TONS	Water
1 L / 38 ton	0	325.00	0	1,398.00	0	32	0	40	0	791	1.00	0
Miscellaneous/Notes:												

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed: See Activity Descriptions above

Date Work Performed:	October 15, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	1.0	N/A	\$ 143.03	N/A	\$ 143.03	2201
R. Whitman	Const. Manager	-	N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	8.0	N/A	\$ 110.34	N/A	\$ 882.72	2201
R. Lee	Safety Manager	1.0	N/A	\$ 115.83	N/A	\$ 115.83	2202
J. Borth	Foreman	=		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	2.0	2.0	\$ 40.21	\$ 52.01	\$ 184.44	0201
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver		2.0	\$ 31.87	\$ 39.70	\$ 79.40	0201
E. McKinley	Truck Driver		-	\$ 31.87	\$ 39.70	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
		-		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic		-	\$ 43.00	\$ 56.12	\$ -	2201
		-		\$ -	\$ -	\$ -	

Total Labor \$ 1,405.42

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	=	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	=	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	=	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	=	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	=	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		=	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	=	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	=	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	2.0	-	\$ 69.89	\$ 41.46	\$ 139.78	0201
CAT 621F	Water Pull	R22800	2.0	-	\$ 96.08	\$ 64.84	\$ 192.16	0201
10,000 Gallon	Water Tower	3369	2.0	-	\$ 4.74	\$ 3.55	\$ 9.48	0201
	Loader/Forks		=	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	=	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	=	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	2.0	=	\$ 23.20	\$ 10.88	\$ 46.40	0201
Neptune	Wheel Wash		2.0	-	\$ 60.69	\$ 58.17	\$ 121.38	0201
Ford F650	Service Truck	3593	=	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	=	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ 509.20

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
Impact Trucking	Import 1 load of Type II Road Base to recap the western boun	\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days		Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$	107.00	\$ 26.75	2201
Richard Whitman		\$	107.00	\$ -	2201
Dennis Johnson	1	\$	107.00	\$ 107.00	2201
Reggie Lee	0.25	\$	107.00	\$ 26.75	2201
John Borth		\$	95.00	\$ -	2201
Russ Malone		\$	95.00	\$ -	2201
Kevin Pittser	0.25	\$	95.00	\$ 23.75	2201
Ivan Seymor		\$	95.00	\$ -	2201
Ike McCalley		\$	95.00	\$ -	2201
		Tota	al per diems	\$ 184.25	

	nvii	rocon		2013 NERT	Fronox Sum port Job # 1		rson					
					(temp.,wind,pred		80 to 90 degrees	;			Т	
REPORT BY:	R. Whitm	1	: Obsessed	Weather:	·		Clear & breezy.			Date:	1	5/2013
Safety Meeting	Yes	Sajety Meeting 1	opic: Observati	ions & Planned Activit	ies.					Day:	Wedi	nesday
					Oversite:	Nita Shinn (	Environ)			Shift:	6:00	16:00
1	Personel on s	ite		Equipment or	ı Site						Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Oper	ations		WBS
A. Buell		Project Director		Chevy	Pickup	3775			Manage	ment		2201
A. Simmons		Project Manager		Chevy	Pickup	3846			Health &	Safety		2202
R. Whitman		Const. Manager		Chevy	Pickup	3844			Mobiliz	ation		0101
D. Johnson		Project Engineer		Chevy	Pickup	3926						
R. Lee		Safety Manager	_	CAT 345	Excavator	R22811			Surv	ey		0401
J. Borth		Foreman		Trimble GCS900	GPS for Exc.	3704			Site Set	-Up		0201
I. McCauley		Operator		Doosan 225	breaker				Soil Exca	vation		0201
R. Malone		Operator	_	Doosan 225	Exc/thumb	R22802			ACM Exc	avation		0201
K. Pittser		Operator		CAT D6T	Bulldozer	R22801			Demoli	tion		0201
		Operator	_	Trimble GCS900	GPS for Dozer	3655			Transp	ort		0201
A. Macias		Truck Driver		CAT 966K	Loader	R22828			Import Tr	ucking		0201
E. McKinley		Truck Driver		CAT 14H	Motor Patrol	3427			Back	fill		0201
		Labor		CAT 621F	Water Pull	R22800						
		Labor		10,000 Gallon	Water Tower	3369						
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804						
				CAT XQ20	25KW Genset	R22809						
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipmer	nt Fuel		2207
				Ford F650	Lube Truck	3700			Demob	ilize		0102
Activity Desc	no activit	ies - demobilizing	g from Timet jo	b only								
Activity Desc	no activit	ies - demobilizing	g from Timet jo	b only								
Activity Desc												
JOB Deliveries												
Supplier/Subcontrac	t On-site?	Quantity	Description of D	elivery, Materials, Service	, Notes							
Impact Trucking	No	- Quantity	Import 0 loads of		,,							
Werdco Trucking	No		Export ACM/Dit	ch Soils. 0 Loads of ACM	& 0 Loads of ditch	soils.						
Diamondback				, Record Progress & Final A	s-built							
Walker Specialty	No		ACM Removal. 8									
Geotek	1	-	Tested backfill de	ensity.								
	<del> </del>											
Canyon State Oil		<u> </u>	Delivered 0 gallo	ns of Fuel								
Material Quantities												
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTA	L TONS	Water
0/0	0	325.00		1,398.00		32	0	40	0		1.00	0
Miscellaneous/Notes:				•								
		·		-				-				

Client rep:\_\_\_

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 16, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate Amount WBS Coding N/A \$ 155.31 N/A \$ 143.03 N/A \$ 137.06 A. Buell A. Simmons Project Director Project Manager N/A \$ N/A \$ N/A N/A N/A R. Whitman Const. Manager Project Engineer N/A \$ 110.34 \$ 115.83 D. Johnson R. Lee Safety Manager N/A 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ J. Borth I. McCauley R. Malone Foreman Operator Operator K. Pittser Operator Operator 0201 0201 A. Macias Truck Driver \$ 31.87 \$ 0201 E. McKinley Truck Driver Labor 31.87 \$ 29.10 \$ 39.70 \$ 35.60 \$ 0201 0201 35.60 \$ Labor 29.10 \$ 0201 43.00 \$ Field Mechanic 56.12 \$ 2201 I. Seymor

Total Labor \_\$ -

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704		-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802		-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828		-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800		-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369		-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804		-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809		-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810		-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash			-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ -	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		S -		S -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 107.00	\$	-	2201
Richard Whitman		\$ 107.00	\$	-	2201
Dennis Johnson		\$ 107.00	\$	-	2201
Reggie Lee		\$ 107.00	\$	-	2201
John Borth		\$ 95.00	\$	-	2201
Russ Malone		\$ 95.00	\$	-	2201
Kevin Pittser		\$ 95.00	\$	-	2201
Ivan Seymor		\$ 95.00	\$	-	2201
Ike McCalley		\$ 95.00	\$	-	2201

Total per diems \$ -

REPORT BY:				Daily K	eport Job # 1 (temp., wind, prec		80 to 90 degrees				1	
EPOKI BY:	R. Whitm	T		Weather:		.tp.)	Clear & 15 to 20			Date:	10/17	/201
afety Meeting	Yes	Safety Meeting T	Topic: Observati	ons & Planned Activi	ties.					Day:	Thu	sday
					Oversite:	Nita Shinn (I	Environ)			Shift:	6:00	16
P	ersonel on s	site		Equipment of							Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Oper	ations		W
A. Buell		Project Director		Chevy	Pickup	3775			Manage	ment	X	22
A. Simmons	2	Project Manager		Chevy	Pickup	3846			Health &	Safety	X	22
R. Whitman		Const. Manager		Chevy	Pickup	3844			Mobiliz	ation		01
D. Johnson		Project Engineer		Chevy	Pickup	3926						
R. Lee	2	Safety Manager		CAT 345	Excavator	R22811			Surv	ey		04
J. Borth	2	Foreman		Trimble GCS900	GPS for Exc.	3704			Site Set	-Up		02
I. McCauley		Operator		Doosan 225	breaker				Soil Exca	vation		02
R. Malone		Operator		Doosan 225	Exc/thumb	R22802			ACM Exc	avation		02
K. Pittser		Operator		CAT D6T	Bulldozer	R22801			Demoli	tion		02
		Operator		Trimble GCS900	GPS for Dozer	3655			Transp	ort		02
A. Macias	2	Truck Driver		CAT 966K	Loader	R22828			Import Tr	ucking		02
E. McKinley		Truck Driver		CAT 14H	Motor Patrol	3427			Back	fill		02
		Labor		CAT 621F	Water Pull	R22800	2					
		Labor		10,000 Gallon	Water Tower	3369	2					
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804						
				CAT XQ20	25KW Genset	R22809						
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
		Field Mechanic		Ford F650	Service Truck	3593			Equipmen	nt Fuel		22
I. Sevmor												
	applied d		er the NERT are	Ford F650 ea for final restoration	Lube Truck	3700 tivities requ	uired beyond t	oday	Demob	ilize		(
	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		0
Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		uired beyond t	oday	Demob	ilize		0
Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		0
Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		
Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		
Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		
Activity Desc: Activity Desc: Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		aired beyond t	oday	Demob	ilize		
Activity Desc: Activity Desc: Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		01
Activity Desc: Activity Desc: Activity Desc:	applied d		er the NERT are	Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		01
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:				Ford F650	Lube Truck		nired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  upplier/Subcontract  mpact Trucking	On-site? No	ust palliative over	Description of D	Ford F650  ca for final restoration  category, Materials, Service  general fill.	Lube Truck  - no further acc	tivities requ	aired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  upplier/Subcontract mpact Trucking Verdco Trucking	On-site?	ust palliative over	Description of D Import 0 loads of Export ACM/Dit	Ford F650  ca for final restoration	Lube Truck  - no further ac	tivities requ	aired beyond t	oday	Demob	ilize		01
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  Activity Desc:  JOB Trucking  Verdeo Trucking  Joannondback	On-site? No No	ust palliative over	Description of E Import 0 loads of Export ACM/Dit Pre Topo, Layou	Ford F650  a for final restoration  a for final restoration  elivery, Materials, Servic general fill.  general fill.  Record Progress & Final	Lube Truck  - no further ac	tivities requ	nired beyond t	oday	Demob	ilize		01
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  upplier/Subcontract  mact Trucking  verdeo Trucking  verdeo Trucking  verdeo Vrucking  verdeo Vrucking  verdeo Vrucking  verdeo Vrucking	On-site? No	ust palliative over	Description of D Import 0 loads of Export ACM, Dirth Pre Topo, Layout ACM Removal. 8	Ford F650  ca for final restoration  ca for final restoration  elivery, Materials, Servic general fill.  ch Soils, 0 Loads of ACM  a Record Progress & Final  d Man Crew	Lube Truck  - no further ac	tivities requ	nired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  upplier/Subcontract  mact Trucking  verdeo Trucking  verdeo Trucking  verdeo Vrucking  verdeo Vrucking  verdeo Vrucking  verdeo Vrucking	On-site? No No	ust palliative over	Description of E Import 0 loads of Export ACM/Dit Pre Topo, Layou	Ford F650  ca for final restoration  ca for final restoration  elivery, Materials, Servic general fill.  ch Soils, 0 Loads of ACM  a Record Progress & Final  d Man Crew	Lube Truck  - no further ac	tivities requ	aired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  supplier/Subcontract  mpact Trucking  Verdeo Trucking  verdeo Trucking  verdeo Trucking  Verdeo Trucking  Verdeo Verdeo Verdeo  Verdeo Verdeo  Verdeo Verdeo  Verdeo Verdeo  V	On-site? No No	ust palliative over	Description of D Import 0 loads of Export ACM, Dirth Pre Topo, Layout ACM Removal. 8	Ford F650  ca for final restoration  ca for final restoration  elivery, Materials, Servic general fill.  ch Soils, 0 Loads of ACM  a Record Progress & Final  d Man Crew	Lube Truck  - no further ac	tivities requ	aired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Supplier/Subcontract mpact Trucking Diamondback Walker Specialty Geotek	On-site? No No	ust palliative over	Description of D Import 0 loads of Export ACM, Dirth Pre Topo, Layout ACM Removal. 8	Ford F650  ca for final restoration  ca for	Lube Truck  - no further ac	tivities requ	aired beyond t	oday	Demob	ilize		
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  Supplier/Subcontract  mact Trucking  Verdeo Trucking  Siamondback  Walker Specialty  Geotek  Canyon State Oil	On-site? No No	ust palliative over	Description of D Import 0 loads of Export ACM/Dit Pre Topo, Layout ACM Removal. 8 Tested backfill de	Ford F650  ca for final restoration  ca for	Lube Truck  - no further ac	tivities requ	nired beyond t	oday	Demob	ilize		01
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  JOB Deliveries  Supplier/Subcontract mpact Trucking Werdco Trucking Diamondback Walker Specialty Geotek  Canyon State Oil Material Quantities	On-site? No No No	Quantity	Description of E Import 0 loads of Export ACM/Dit Pre Topo, Loads ACM Removal. Tested backfill de	Ford F650  ca for final restoration  ca for	Lube Truck  - no further acc   tivities requ			Demob  Off-Site Tn		L TONS	W	
Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Activity Desc:  Supplier/Subcontract impact Trucking Werdeo Trucking Jamondback Walker Specialty Geotek  Canyon State Oil	On-site? No No	ust palliative over	Description of D Import 0 loads of Export ACM/Dit Pre Topo, Layout ACM Removal. 8 Tested backfill de	Ford F650  ca for final restoration  ca for	Lube Truck  - no further ac	tivities requ		Total Lds 40		TOTAL	L TONS	

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 17, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate WBS Coding N/A N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 A. Buell A. Simmons Project Director Project Manager N/A N/A 2.0 286.06 R. Whitman Const. Manager Project Engineer Safety Manager N/A \$ 110.34 \$ 115.83 D. Johnson 2.0 231.66 R. Lee N/A 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ 31.87 \$ 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ J. Borth I. McCauley R. Malone Foreman Operator Operator 86.00 Operator Operator Truck Driver K. Pittser 0201 0201 63.74 A. Macias 2.0 \$ 0201 31.87 \$ 29.10 \$ 29.10 \$ 0201 0201 0201 E. McKinley Truck Driver Labor 39.70 \$ 35.60 \$ Labor 35.60 \$ Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor Total Labor \$ 667.46

				Standby	Operating			
Equipment		Unit #	Operating Hours	Hours	Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker			-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655		-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427		-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	2.0	-	\$ 96.08	\$ 64.84	\$ 192.16	0201
10,000 Gallon	Water Tower	3369	2.0	-	\$ 4.74	\$ 3.55	\$ 9.48	0201
	Loader/Forks			-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810		-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207
					Total E	quipment	\$ 201.64	

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		Total	Materials	\$ -	

Subcontractors	Work Performed	Cost	Hours	l l	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207
	<u> </u>	Total Su	bcontractors	\$		_

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman		\$ 106.62	\$	-	2201

		rocon		Daily R	eport Job # 1					•		
REPORT BY:	R. Whitm	an		Weather:	(temp., wind, prec	rip.)	70 to 80 degrees Clear & breezy.	s		Date:	10/18	/2013
Safety Meeting	Yes		Topic : Observat	ions & Planned Activi	ties.		, , , , , , , , , , , , , , , , , , , ,			Day:	Frie	
		1										
						Nita Shinn (	Environ) & Kris	Everett (LS)		Shift:	6:00	16:0
	Personel on s			Equipment o			1		_		Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Oper			WBS
A. Buell	-	Project Director	=	Chevy	Pickup	3775			Manage			2201
A. Simmons	-	Project Manager	=	Chevy	Pickup	3846			Health &			2202
R. Whitman	+	Const. Manager		Chevy	Pickup	3844			Mobiliza	ation		0101
D. Johnson	+	Project Engineer		Chevy	Pickup	3926			0			0401
R. Lee	+	Safety Manager	=	CAT 345	Excavator	R22811			Surve			0401
J. Borth  I. McCauley	+	Foreman Operator	-	Trimble GCS900 Doosan 225	GPS for Exc. breaker	3704			Site Set Soil Exca			020
R. Malone	+	Operator	-	Doosan 225	Exc/thumb	R22802			ACM Exca			0201
K. Pittser	-	Operator		CAT D6T	Bulldozer	R22801			Demoli			020
K. Fittser	+	Operator	-	Trimble GCS900	GPS for Dozer	3655			Transp			0201
A. Macias	1	Truck Driver		CAT 966K	Loader	R22828			Import Tr			0201
E. McKinley	1	Truck Driver		CAT 14H	Motor Patrol	3427			Backi			0201
L. Wekiney	1	Labor		CAT 621F	Water Pull	R22800			Dack			020
		Labor	1	10,000 Gallon	Water Tower	3369						
	-			10,000 0000	Loader/Forks							
	-			2,000 Gallon	Water Truck	R22804						
				CAT XQ20	25KW Genset	R22809						
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipmer	nt Fuel		2207
•				Ford F650	Lube Truck	3700			Demob		X	0102
Activity Desc	demob or	nly today										
Activity Desc	demob or	aly today										
Activity Desc	demob or	lly today										
JOB Deliveries												
Supplier/Subcontrac		Quantity		elivery, Materials, Service	e, Notes							
Impact Trucking	No		Import 0 loads of	general fill. ch Soils. 0 Loads of ACM		11.						
Werdco Trucking Diamondback	No No		1	, Record Progress & Final		n sous.						
	No		ACM Removal. 8		. is built							
Walker Specialty	No		Tested backfill de									
Walker Specialty Logistic Solutions	110											
	1.0											
Logistic Solutions	1.0		Delimer 10 - "	no of Eural								
Logistic Solutions  Canyon State Oil			Delivered 0 gallo	ns of Fuel								
Logistic Solutions  Canyon State Oil  Material Quantities	s				9	m			08.0	m.c.		
Logistic Solutions  Canyon State Oil  Material Quantities  Type II Road Mat'l	s ACM	Total ACM	Delivered 0 gallo	Total General Tons	General Loads			Total Lds	Off-Site Tn		L TONS	
Canyon State Oil  Material Quantities  Type II Road Mat'l  0 / 0	s ACM 0	Total ACM 325.00			General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn		L TONS	Wate
Logistic Solutions  Canyon State Oil  Material Quantities  Type II Road Mat'l	s ACM 0			Total General Tons	General Loads							
Logistic Solutions  Canyon State Oil  Material Quantities  Type II Road Mat'l  0 / 0	s ACM 0			Total General Tons	General Loads							

Signature:\_\_\_\_\_ Client rep:\_\_\_\_

# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs See Activity Descriptions above October 18, 2013

Description of Work Performed:

Date Work Performed:

Date Work Performed:	October 18, 2013	3					
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director		N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager		N/A	\$ 143.03	N/A	\$ -	2201
R. Whitman	Const. Manager		N/A	\$ 137.06	N/A	\$ -	2201
D. Johnson	Project Engineer		N/A	\$ 110.34	N/A	\$ -	2201
R. Lee	Safety Manager		N/A	\$ 115.83	N/A	\$ -	2202
J. Borth	Foreman		-	\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
R. Malone	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator		-	\$ 40.21	\$ 52.01	\$ -	0201
	Operator		-	\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver		-	\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver		-	\$ 31.87	\$ 39.70	\$ -	0201
	Labor		-	\$ 29.10	\$ 35.60	\$ -	0201
	Labor		-	\$ 29.10	\$ 35.60	\$ -	0201
			-	\$ -	\$ -	\$ -	
			-	\$ -	\$ -	\$ -	
			-	\$ -	\$ -	\$ -	
			-	\$ -	\$ -	\$ -	
		٠	-	\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic		-	\$ 43.00	\$ 56.12	\$ -	2201
				\$ -	\$ -	\$ -	

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ -

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	\$ -	\$ -	
		S -		\$ -	
		\$ -		\$ -	
		e		¢	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amo	unt	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Logistic Solutions	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	S -		\$	-	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 107.00	\$	-	2201
Richard Whitman		\$ 107.00	) S	_	2201

	nvii	rocon		2013 NERT	Fronox Sum port Job # 1		rson					
					(temp.,wind,pred		80 to 90 degrees	3				
REPORT BY:	R. Whitm	1	lonia :	Weather:			Clear & breezy.			Date:		/2013
Safety Meeting	No	Safety Meeting To	ори							Day:	Satu	rday
					Oversite:	Nita Shinn (	Environ) & Kris	Everett (LS)		Shift:	6:00	16:00
1	Personel on s	site		Equipment or	Site						Activities	
Operator's Name	Hours	Position		Туре	Desc	Equip#	Hours Op.	Standby	Site Oper	ations		WBS
A. Buell		Project Director		Chevy	Pickup	3775			Manage	ment		2201
A. Simmons		Project Manager		Chevy	Pickup	3846			Health &	Safety		2202
R. Whitman		Const. Manager		Chevy	Pickup	3844			Mobiliza	ation		0101
D. Johnson		Project Engineer	4	Chevy	Pickup	3926						
R. Lee		Safety Manager	_	CAT 345	Excavator	R22811			Surve	ey		0401
J. Borth		Foreman	_	Trimble GCS900	GPS for Exc.	3704			Site Set			0201
I. McCauley		Operator	_	Doosan 225	breaker				Soil Exca			0201
R. Malone		Operator	_	Doosan 225	Exc/thumb	R22802			ACM Exc			0201
K. Pittser		Operator	_	CAT D6T	Bulldozer	R22801			Demoli			0201
		Operator	_	Trimble GCS900	GPS for Dozer	3655			Transp			0201
A. Macias		Truck Driver	_	CAT 966K	Loader	R22828			Import Tr			0201
E. McKinley		Truck Driver	=	CAT 14H	Motor Patrol	3427			Backi	ill		0201
		Labor	_	CAT 621F	Water Pull	R22800						
		Labor	=	10,000 Gallon	Water Tower	3369						
			=		Loader/Forks							
			4	2,000 Gallon	Water Truck	R22804						
			4	CAT XQ20	25KW Genset	R22809						
			4	CAT DCA45	45KVA Genset	R22810						
			4	Neptune	Wheel Wash							
I. Seymor		Field Mechanic	4	Ford F650 Ford F650	Service Truck  Lube Truck	3593 3700			Equipmer Demob			2207 0102
Activity Desc	:											
Activity Desc												
Activity Desc												
JOB Deliveries												
Supplier/Subcontrac	On-site?	Quantity	Description of D	elivery, Materials, Service	, Notes							
Impact Trucking	No		Import 0 loads of		,							
Werdco Trucking	No			ch Soils. 0 Loads of ACM		soils.						
Diamondback	No			, Record Progress & Final A	s-built							
Walker Specialty	No No	<del>                                     </del>	ACM Removal. 8 Tested backfill de									
Logistic Solutions	No	<del> </del>	resteu oacknil de	zusity.								
	<b>†</b>	t										
Canyon State Oil			Delivered 0 gallo	ns of Fuel								
Material Quantities												
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL	L TONS	Water
0/0	0	325.00	0	1,398.00	0	32	0	40	0	79	1.00	X
Miscellaneous/Notes:												

Client rep:\_\_\_

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 19, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate Amount WBS Coding N/A N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 \$ 110.34 \$ 115.83 A. Buell A. Simmons Project Director Project Manager N/A \$ N/A \$ R. Whitman Const. Manager Project Engineer Safety Manager N/A D. Johnson R. Lee N/A 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ 31.87 \$ 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ J. Borth I. McCauley R. Malone Foreman Operator Operator K. Pittser Operator Operator 0201 0201 A. Macias Truck Driver \$ 0201 31.87 \$ 29.10 \$ 29.10 \$ 0201 0201 0201 E. McKinley Truck Driver Labor 39.70 \$ 35.60 \$ 35.60 \$ Labor Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor

Total Labor \_\$ -

Equipment		Unit#	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-1		\$ 9.54		S -	2201
Chevy	Pickup	3846			\$ 9.54		\$ -	2201
Chevy	Pickup	3844		-	\$ 9.54		s -	2201
Chevy	Pickup	3926		-	\$ 9.54		s -	2201
CAT 345	Excavator	R22811			\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704			\$ 37.98		\$ -	0201
Doosan 225	breaker				\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802		-	\$ 112.7	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655			\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828		-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427		-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-		\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks			-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	-	-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809	-		\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.00	\$ 35.49	\$ -	2207

Total Equipment \$

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		s -		S -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Logistic Solutions	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 107.00	\$	-	2201
Richard Whitman		\$ 107.00	S	-	2201

### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Summary Estimated Costs for Week Ending 10/20/2013

Date Work Performed:

Labor (Employee)	Classification	Reg Hrs	OT Hrs	R	eg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$	155.31	N/A	\$ -	2201
A. Simmons	Project Manager	5.0	N/A	\$	143.03	N/A	\$ 715.15	2201
R. Whitman	Superintendent	-	N/A	\$	137.06	N/A	\$ -	2201
D. Johnson	Project Engineer	10.0	N/A	\$	110.34	N/A	\$ 1,103.40	2201
R. Lee	Safety Manager	11.0	N/A	\$	115.83	N/A	\$ 1,274.13	2202
J. Borth	Foreman	10.0	-	\$	43.00	\$ 56.12	\$ 430.00	0201
I. McCauley	Operator	-	-	\$	40.21	\$ 52.01	\$ -	0201
R. Malone	Operator	5.0	5.0	\$	40.21	\$ 52.01	\$ 461.10	0201
K. Pittser	Operator	7.0	7.0	\$	40.21	\$ 52.01	\$ 645.54	0201
A. Macias	Driver	2.0	7.0	\$	31.87	\$ 39.70	\$ 341.64	0201
E. McKinley	Driver	-	5.0	\$	31.87	\$ 39.70	\$ 198.50	0201
I. Seymor	Field Mechanic	-	1.0	\$	43.00	\$ 56.12	\$ 56.12	2201
		-	-	\$	-	\$ -	\$ -	·

Total Labor \$ 5,225.58

		Operating	Standby	(	Operating				
Equipment	Unit #	Hours	Hours		Rate	Star	ndby Rate	Amount	WBS Coding
Chevy Pickup	3775	-	-	\$	9.54	\$	5.09	\$ -	2201
Chevy Pickup	3846	-	-	\$	9.54	\$	5.09	\$ -	2201
Chevy Pickup	3844	-	-	\$	9.54	\$	5.09	\$ -	2201
Chevy Pickup	3926	-	-	\$	9.54	\$	5.09	\$ -	2201
CAT 345 Excavator	R22811	-	-	\$	121.29	\$	84.46	\$ -	0201
Trimble GCS900 for Excavator	3704	-	-	\$	37.98	\$	36.30	\$ -	0201
CAT D6T Bulldozer	R22801	5.0	-	\$	85.40	\$	54.60	\$ 427.00	0201
Trimble GCS900 for Bulldozer	3655	5.0	-	\$	37.98	\$	36.30	\$ 189.90	0201
CAT 966K Front-end Loader	R22828	5.0	-	\$	126.92	\$	85.31	\$ 634.60	0201
CAT 14H Motor Patrol	3427	7.0	-	\$	69.89	\$	41.46	\$ 489.23	0201
CAT 621F Water Pull	R22800	9.0	-	\$	96.08	\$	64.84	\$ 864.72	0201
10,000 Gallon Water Tower	3369	9.0	-	\$	4.74	\$	3.55	\$ 42.66	0201
2,000 Gallon Water Truck	R22804	-	-	\$	57.17	\$	35.49	\$ -	0201
CAT XQ20 Generator	R22809	5.0	-	\$	12.27	\$	4.95	\$ 61.35	0201
CAT DCA45 Generator	R22810	7.0	-	\$	23.20	\$	10.88	\$ 162.40	0201
Neptune Wheel Wash		7.0	-	\$	60.69	\$	58.17	\$ 424.83	0201
Ford F650 Service Truck	3593	-	-	\$	42.42	\$	35.83	\$ -	2201
Ford F650 Lube Truck	3700	1.0	-	\$	42.06	\$	35.49	\$ 42.06	2201

Total Equipment \$ 3,338.75

Subcontractors	Work Performed	Cost		Hours		Amount	WBS Coding
Walker Specialty 8 Man Crew	ACM Removal	\$	912.18	-	\$	-	0201
Diamondback	Surveyor	\$		-	\$	-	0401
Geotek	Density Testing	\$	-	-	\$	-	0201

Total Subcontractors

Materials (Description)	Vendor	Cost Ton		Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	-	\$ -	0201
Transport SW to Apex	Werdco Trucking	\$ 10.13	-	\$ -	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	382.0	\$ 4,244.02	0201
Dust Palliative	Terra Novo	\$ 950.00	1.0	\$ 950.00	0201

Total Materials \$ 5,194.02

Per Diems / Mileage	Days	Rate	Amo	ount	WBS Coding
Andrew Simmons	0.75	\$ 106.62	\$	79.97	2201
Richard Whitman	-	\$ 106.62	\$	-	2201
Dennis Johnson	1.25	\$ 106.62	\$	133.28	2201
Reggie Lee	1.50	\$ 106.62	\$	159.93	2201
John Borth	1.25	\$ 94.77	\$	118.46	2201
Russ Malone	0.50	\$ 94.77	\$	47.39	2201
Kevin Pittser	0.75	\$ 94.77	\$	71.08	2201
Ivan Seymor	-	\$ 94.77	\$	-	2201
Ike McCalley	-	\$ 94.77	\$	-	2201

Total per diems \$ 610.10



2013 NERT Tro	onox Sum	p - Henderson		Repor	t Job # 149150	1						Daily
	D 111111				(temp.,wind,precip.)		85 to 95 degrees				0.100	
REPORT BY:	R. Whitma			Weather: ons & Planned Activiti	og.		Clear & calm.			Date:	9/30/	
Safety Meeting	Yes	Sajety Meeting 10	opic . Observatio	ons & Flanneu Activiti	es.					Day:	Mon	nday
						Oversite:	Nita Shinn (Env	riron)		Shift:	6:00	18:00
P	ersonel on s	ite		Equipment of	on Site						Activities	
Operator's Name	Hours	Position		Type	Desc	Equip#	Hours Op.	Standby	Site Ope	rations		WBS
A. Buell		Project Director	<b>.</b>	Chevy	Pickup	3775			Manage	ement	X	2201
A. Simmons	8	Project Manager	4	Chevy	Pickup	3846			Health &	Safety		2202
R. Whitman	1	Const. Manager		Chevy	Pickup	3844	1		Mobiliz	ation	X	0101
D. Johnson	8	Project Engineer		Chevy	Pickup	3926						
R. Lee		Safety Manager		CAT 345	Excavator	R22811			Surv		X	0401
J. Borth		Foreman	┨	Trimble GCS900	GPS for Exc.	3704			Site Se		X	0201
I. McCauley	1	Operator	┨	Doosan 210	breaker				Soil Exca			0201
R. Malone		Operator	┪ ├	Doosan 210	Exc/thumb				ACM Exc			0201
K. Pittser		Operator	┨	CAT D6T	Bulldozer	R22801	1		Demol			0201
		Operator	┪ ├	Trimble GCS900	GPS for Dozer	3655	1		Trans			0201
A. Macias	1	Truck Driver	┨	CAT 966K	Loader	R22828			Import T			0201
E. McKinley	1	Truck Driver	┨	CAT 14H	Motor Patrol	3427			Back	fill		0201
		Labor	┨	CAT 621F	Water Pull	R22800	1					
		Labor	1	10,000 Gallon	Water Tower	3369						
			1	2,000 G II	Loader/Forks	D 2200 4						
			1	2,000 Gallon	Water Truck	R22804	1					
			<del> </del>	CAT XQ20	25KW Genset	R22809						
			<del> </del>	CAT DCA45	45KVA Genset	R22810						
I C		Eigld Maghania	†	Neptune Ford F650	Wheel Wash Service Truck	3593			Equipme	nt Frank		2207
I. Seymor		Field Mechanic	<del> </del>	Ford F650	Lube Truck	3700			Demol			0102
Activity Desc:	Mobilized			ey majority of the day NERT project today					_			
JOB Deliveries												
Supplier/Subcontracts	On-site?	Quantity		livery, Materials, Service,	Notes							
Impact Trucking	-		Import 0 loads of g		O I and a c 10 1	I						
Werdco Trucking Diamondback		<del> </del>		n Soils. 0 Loads of ACM & Record Progress & Final As		IS.						
Walker Specialty		1	ACM Removal. 8									
Geotek			Tested backfill den									
Common State O'l			Daliyarad 6!	of Fuel								
Canyon State Oil  Motorial Operatities		<u> </u>	Delivered 0 gallons	or raci								
Material Quantities	ACDI	Total + CM	Company 1 Tr.	Total Committee	Comonally	Total I	Wests I I	Total T. J.	Off City T	TOTAL	TONG	Water
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads			Total Lds	Off-Site Tn		L TONS	Water
0 / 0	0	0	0	0	0	0	0	0	0	1	0	1
Miscellaneous/Notes:												



# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed:	See Activity Descrip	tions above						
Date Work Performed:	September 30, 2013							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	R	eg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$	155.31	N/A	\$ -	2201
A. Simmons	Project Manager	8.0	N/A	\$	143.03	N/A	\$ 1,144.24	2201
R. Whitman	Const. Manager	1.0	N/A	\$	137.06	N/A	\$ 137.06	2201
D. Johnson	Project Engineer	8.0	N/A	\$	110.34	N/A	\$ 882.72	2201
R. Lee	Safety Manager	=	N/A	\$	115.83	N/A	\$ -	2202
J. Borth	Foreman	-		\$	43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	1.0		\$	40.21	\$ 52.01	\$ 40.21	0201
R. Malone	Operator	-		\$	40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	=		\$	40.21	\$ 52.01	\$ -	0201
	Operator	-		\$	36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	1.0		\$	31.87	\$ 39.70	\$ 31.87	0201
E. McKinley	Truck Driver	1.0		\$	31.87	\$ 39.70	\$ 31.87	0201
	Labor	-		\$	29.10	\$ 35.60	\$ -	0201
	Labor	-		\$	29.10	\$ 35.60	\$ -	0201
		-		\$	-	\$ -	\$ -	
		-		\$	-	\$ -	\$ -	
		-		\$	-	\$ -	\$ -	
		-		\$	-	\$ -	\$ -	
		-		\$	-	\$ -	\$ -	
I. Seymor	Field Mechanic	-		\$	43.00	\$ 56.12	\$ -	2201
		9		\$	-	\$ -	\$ -	
<u>-</u>			•			T-4-11 -1	e 2.247.05	

Total Labor \$ 2,267.97

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	1.0	-	\$ 9.54	\$ 5.09	\$ 9.54	2201
Chevy	Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	=	=	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 210	breaker		=	=	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 210	Exc/thumb		=	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	1.0	-	\$ 85.40	\$ 54.60	\$ 85.40	0201
Trimble GCS900	GPS for Dozer	3655	1.0	-	\$ 37.98	\$ 36.30	\$ 37.98	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	=	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	-	-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		=	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	1.0	-	\$ 57.17	\$ 35.49	\$ 57.17	0201
CAT XQ20	25KW Genset	R22809	=	-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810	-	-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash		-	-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593	-	-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	=	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$ 190.09

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$ -	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	1	\$ 106.62	\$	106.62	2201
Richard Whitman	0.25	\$ 106.62	\$	26.66	2201
Dennis Johnson	1	\$ 106.62	\$	106.62	2201
Reggie Lee		\$ 106.62	\$	-	2201
John Borth		\$ 94.77	\$	-	2201
Russ Malone		\$ 94.77	\$	-	2201
Kevin Pittser		\$ 94.77	\$	-	2201
Ivan Seymor		\$ 94.77	\$	-	2201
Ike McCalley	0.25	\$ 94.77	\$	23.69	2201

Total per diems \$ 263.59

Ty E	nvi	rocon		2013 NERT 7	-		rson					
				Daily Re	port Job # 1- (temp., wind, pred		80 to 90 degrees	<u> </u>		Т	ı	
REPORT BY:	R. Whitm	an		Weather:	(тетр., тта,ртее	·P·/	Clear & breezy.	,		Date:	10/1/	2013
Safety Meeting	Yes	Safety Meeting To	opic: Observati	ions & Planned Activit	ies.					Day:	Tue	sday
										C7 10:	0.00	1600
1		:		Fi	C:4	Oversite:	Nita Shinn & J	ames (Environ)		Shift:	8:00	16:00
Operator's Name	Personel on s Hours	Position	I	Equipment on	Desc	Fi #	Hours Op.	Standby	C:4- O	4:	Activities	WBS
A. Buell	nours	Project Director		Type Chevy	Pickup	Equip # 3775	8	Standby	Site Ope Manag		Х	2201
A. Simmons	2	Project Manager	1	Chevy	Pickup	3846			Health &		X	2202
R. Whitman	8	Const. Manager		Chevy	Pickup	3844	8		Mobiliz		X	0101
D. Johnson	2	Project Engineer		Chevy	Pickup	3926			NIODILI	atton	25	0101
R. Lee	8	Safety Manager	1	CAT 345	Excavator	R22811	8	2	Sur	vev		0401
J. Borth		Foreman		Trimble GCS900	GPS for Exc.	3704	8	2	Site Se		X	0201
I. McCauley	8	Operator	İ	Doosan 225	breaker			10	Soil Exc		X	0201
R. Malone		Operator	İ	Doosan 225	Exc/thumb	R22802			ACM Exc	cavation		0201
K. Pittser		Operator		CAT D6T	Bulldozer	R22801			Demol	lition	X	0201
		Operator	]	Trimble GCS900	GPS for Dozer	3655			Trans	port		0201
A. Macias		Truck Driver	1	CAT 966K	Loader	R22828			Import T	rucking		0201
E. McKinley	8	Truck Driver	]	CAT 14H	Motor Patrol	3427	1		Back	fill		0201
		Labor		CAT 621F	Water Pull	R22800						
		Labor		10,000 Gallon	Water Tower	3369	5					
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804	8	2				
				CAT XQ20	25KW Genset	R22809	5					
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipme	ent Fuel	X	2207
				Ford F650	Lube Truck	3700			Demo	bilize		0102
	Had wate Doosan E breaker v	er truck driver cor Breaker brought o was on standby all	ntinuously app nsite in prepar day and called	te & iron associated w ly water to control dus ration for demolition of d off after 3 days renta at a shallow depth on the	t. I structure. Ui I (once all the	nit was not s structure w	needed as 345 as removed ar	Excavator was and confirmed).				
	Trucks w	ere used on the T	imet side while	waiting for approval t	o proceed with	n hauling. T	They were sent	away before app	oroval was g	iven.		
JOB Deliveries												
Supplier/Subcontract	On-site?	Quantity	Description of D Import 0 loads of	Delivery, Materials, Service	, Notes							
Impact Trucking Werdco Trucking	1	<del> </del>		ch Soils. U Loads of ACM	& 0 Loads of dite	h soils.						
Diamondback			•	t, Record Progress & Final A								
Walker Specialty			ACM Removal. 8									
Geotek			Tested backfill de	ensity.								
Canyon State Oil	}	<del> </del>	Delivered 0 gallo	ns of Fuel								
Material Quantities		1	_ onvered v gano									
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loade	Total Lds	Off-Site Tn	ТОТАТ	TONS	Water
0 / 0	0	0	0	0	0	0	0	0	0		0	2
Miscellaneous/Notes:			U		U	U	U	· ·	U	<u> </u>	-	

# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs

Description of Work Performed: See Activity Descriptions above Date Work Performed: October 1, 2013

Date Work Performed:	October 1, 2013						
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202
J. Borth	Foreman	=		\$ 43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	8.0		\$ 40.21	\$ 52.01	\$ 321.68	0201
R. Malone	Operator	=		\$ 40.21	\$ 52.01	\$ -	0201
K. Pittser	Operator	=		\$ 40.21	\$ 52.01	\$ -	0201
	Operator	=		\$ 36.04	\$ 45.85	\$ -	0201
A. Macias	Truck Driver	=		\$ 31.87	\$ 39.70	\$ -	0201
E. McKinley	Truck Driver	8.0		\$ 31.87	\$ 39.70	\$ 254.96	0201
	Labor	=		\$ 29.10	\$ 35.60	\$ -	0201
	Labor	=		\$ 29.10	\$ 35.60	\$ -	0201
		-		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
		=		\$ -	\$ -	\$ -	
I. Seymor	Field Mechanic	-		\$ 43.00	\$ 56.12	\$ -	2201
		=		\$ -	\$ -	\$ -	
					m . 17 1	A 2406 FO	

Total Labor \$ 3,106.50

Equipment		Unit #	Operating Hours	Standby Hours	O	perating Rate	Sta	ndby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$	9.54	\$	5.09	\$ 76.32	2201
Chevy	Pickup	3846	=	-	\$	9.54	\$	5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$	9.54	\$	5.09	\$ 76.32	2201
Chevy	Pickup	3926	1	1	\$	9.54	\$	5.09	\$ -	2201
CAT 345	Excavator	R22811	8.0	2.0	\$	121.29	\$	84.46	\$ 1,139.24	0201
Trimble GCS900	GPS for Exc.	3704	8.0	2.0	\$	37.98	\$	36.30	\$ 376.44	0201
Doosan 225	breaker		=	10.0	\$	201.72	\$	170.63	\$ 1,706.30	0201
Doosan 225	Exc/thumb	R22802	=	-	\$	112.71	\$	85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	=	-	\$	85.40	\$	54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	=	-	\$	37.98	\$	36.30	\$ -	0201
CAT 966K	Loader	R22828	=	-	\$	126.92	\$	85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	1.0	-	\$	69.89	\$	41.46	\$ 69.89	0201
CAT 621F	Water Pull	R22800	-	-	\$	96.08	\$	64.84	\$ -	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$	4.74	\$	3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$	58.89	\$	40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	8.0	2.0	\$	57.17	\$	35.49	\$ 528.34	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$	12.27	\$	4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	-	-	\$	23.20	\$	10.88	\$ -	0201
Neptune	Wheel Wash		-	-	\$	60.69	\$	58.17	\$ -	0201
Ford F650	Service Truck	3593	-	-	\$	42.42	\$	35.83	\$ -	0201
Ford F650	Lube Truck	3700	=	-	\$	42.06	\$	35.49	\$ -	2207

Total Equipment \$ 4,057.90

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		\$ -		\$ -	

Total Materials \$

Subcontractors	Work Performed	Cost	Hours	Am	ount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman	1	\$ 106.62	\$ 1	106.62	2201
Dennis Johnson	0.25	\$ 106.62	\$	26.66	2201
Reggie Lee	1	\$ 106.62	\$ 1	106.62	2201
John Borth		\$ 94.77	\$	-	2201
Russ Malone		\$ 94.77	\$	-	2201
Kevin Pittser		\$ 94.77	\$	-	2201
Ivan Seymor		\$ 94.77	\$	-	2201
Ike McCalley	1	\$ 94.77	\$	94.77	2201

Total per diems \$ 361.32

	nvii	rocon		2013 NERT Daily Re	Fronox Sum		rson					
REPORT BY:	R. Whitma	an		Weather:	(temp.,wind,pred		80 to 90 degrees Clear & breezy.			Date:	10/2	/2013
Safety Meeting	Yes	Safety Meeting To	pic: Observati	ons & Planned Activit	ies.					Day:	Wedi	nesday
						Nita Shinn (I	Environ) & Kris	Everett (LS)		Shift:	6:00	18:00
	Personel on s			Equipment or							Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope			WBS
A. Buell		Project Director		Chevy	Pickup	3775	8		Manag		X	2201
A. Simmons	2	Project Manager	1	Chevy	Pickup	3846			Health &		X	2202
R. Whitman	2	Const. Manager		Chevy	Pickup	3844	8		Mobiliz	zation		0101
D. Johnson R. Lee	8	Project Engineer Safety Manager	1	Chevy CAT 345	Pickup Excavator	3926 R22811	12		Surv	·ov		0401
J. Borth		Foreman		Trimble GCS900	GPS for Exc.	3704	12		Site Se		X	0201
I. McCauley	12	Operator		Doosan 225	breaker	3704	1	9	Soil Exca		X	0201
R. Malone	12	Operator		Doosan 225	Exc/thumb	R22802	•		ACM Exc		X	0201
K. Pittser		Operator	1	CAT D6T	Bulldozer	R22801			Demol		X	0201
TE T HUGE		Operator	1	Trimble GCS900	GPS for Dozer	3655			Trans		X	0201
A. Macias	5	Truck Driver		CAT 966K	Loader	R22828			Import T			0201
E. McKinley	12	Truck Driver		CAT 14H	Motor Patrol	3427			Back			0201
Ť		Labor	1	CAT 621F	Water Pull	R22800	5					
		Labor	1	10,000 Gallon	Water Tower	3369	5					
			1	.,	Loader/Forks							
				2,000 Gallon	Water Truck	R22804	12					
				CAT XQ20	25KW Genset	R22809	5					
				CAT DCA45	45KVA Genset	R22810	5					
				Neptune	Wheel Wash		5					
I. Seymor	1	Field Mechanic		Ford F650	Service Truck	3593			Equipme	nt Fuel	X	2207
				Ford F650	Lube Truck	3700	1		Demol			0102
	Loaded d Hauled to Mech/lub Walker so Trucks w	emolished concre o Apex for disposa e truck fueled at o et up wrapping sta ith ACM materia	te & iron out wal.  end of the day ( ations to deploy I were lined, loa	Fronox sump area. ith the impacted soils OT) y liners inside trailers. aded & wrapped for d in site to make determ	isposal at Ape	x.	ios.		_			
JOB Deliveries												
Supplier/Subcontract	On-site?	Quantity	Description of D	elivery, Materials, Service	e, Notes							
Impact Trucking			Import 0 loads of	general fill.								
Werdco Trucking	Yes	4	Export ACM/Dite			soils.						
Diamondback	37	12		, Record Progress & Final A	s-built							
Walker Specialty Geotek	Yes	12	ACM Removal. 8 Tested backfill de									
George			rested backini de	nisity.								
Canyon State Oil			Delivered 0 gallo	ns of Fuel								
Material Quantities												
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL	L TONS	Water
0/0	205.00	205.00	0	0	0	0	4	4	79.00	79	.00	4
Miscellaneous/Notes:												
i												

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 2, 2013 Labor (Employee) Classification Reg Hrs OT Hrs Reg Rate OT Rate WBS Coding \$ 155.31 \$ 143.03 \$ 137.06 A. Buell A. Simmons Project Director Project Manager N/A N/A N/A N/A 2.0 286.06 2201 2201 2202 2202 0201 0201 0201 Const. Manager Project Engineer N/A N/A R. Whitman 8.0 N/A 1,096.48 2.0 \$ 110.34 \$ 115.83 220.68 926.64 D. Johnson Safety Manager R. Lee N/A N/A 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ I. Borth I. McCauley Foreman Operator 43.00 \$ 40.21 \$ 40.21 \$ 482.52 R. Malone Operator K. Pittser Operator Operator 40.21 36.04 0201 0201 159.35 5.0 A. Macias 31.87 \$ Truck Driver \$ 0201 E. McKinley Truck Driver Labor 31.87 \$ 29.10 \$ 39.70 \$ 35.60 \$ 382.44 0201 0201 Labor 29.10 \$ 35.60 0201 2201 I. Seymor Field Mechanic 1.0 43.00 \$ 56.12 \$ 43.00

Total Labor \$ 3,597.17

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	12.0	-	\$ 121.29	\$ 84.46	\$ 1,455.48	0201
Trimble GCS900	GPS for Exc.	3704	12.0	-	\$ 37.98	\$ 36.30	\$ 455.76	0201
Doosan 225	breaker		1.0	9.0	\$ 201.72	\$ 170.63	\$ 1,737.39	0201
Doosan 225	Exc/thumb	R22802		-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655		-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828		-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427		-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks			-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	12.0	-	\$ 57.17	\$ 35.49	\$ 686.04	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
					Total F	quipment	\$ 5,514.27	-

Materials (Description)	Vendor	Co	st	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$	23.87	\$ 204.54	\$ 4,882.37	
Transport SW to Apex	Werdco Trucking	\$	10.13	\$ 78.59	\$ 796.12	
Import Backfill from BRQ	Impact Sand & Gravel	\$	11.11	0	\$	
		\$	-		\$	
		\$	-		\$	
		\$	-		\$	
	_	 Total Materials		\$ 5,678.49		

Subcontractors	Work Performed	Cost	Hours		Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18	12	\$	10,946.16	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207
		Total Subcontractors			10,946.16	_

Per Diems / Mileage	Days	Rate	Amount	WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$ 26.66	2201
Richard Whitman	1	\$ 106.62	\$ 106.62	2201
Dennis Johnson	0.25	\$ 106.62	\$ 26.66	2201
Reggie Lee	1	\$ 106.62	\$ 106.62	2201
John Borth		\$ 94.77	\$ -	2201
Russ Malone		\$ 94.77	\$ -	2201
Kevin Pittser		\$ 94.77	\$ -	2201
Ivan Seymor		\$ 94.77	\$ -	2201
Ike McCalley	1	\$ 94.77	\$ 94.77	2201

5 94.// 5 94.// Total per diems \$ 361.32

TTO E	nvii	rocon		2013 NERT			rson					
				Daily Re	port Job # 1		20 to 00 do one 02				T	
REPORT BY:	R. Whitm	an		Weather:	(temp., wind, pred	пр.)	80 to 90 degrees Clear & 15 to 20			Date:	10/3/	2013
Safety Meeting	Yes	Safety Meeting T	opic: Observati	ions & Planned Activit	ies.					Day:	Thur	sday
						Nita Shinn (	Environ) & Kris	Everett (LS)		Shift:	6:00	18:00
	Personel on s			Equipment or	Site		1				Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope			WBS
A. Buell		Project Director	-	Chevy	Pickup	3775	8		Manage		X	2201
A. Simmons	2	Project Manager	-	Chevy	Pickup	3846			Health &	Safety	X	2202
R. Whitman	8	Const. Manager	-	Chevy	Pickup	3844	8		Mobiliz	ation		0101
D. Johnson	2	Project Engineer		Chevy	Pickup	3926						
R. Lee	8	Safety Manager	-	CAT 345	Excavator	R22811	12		Surv			0401
J. Borth		Foreman	-	Trimble GCS900	GPS for Exc.	3704	12		Site Se			0201
I. McCauley	12	Operator	-	Doosan 225	breaker			10	Soil Exca		X	0201
R. Malone		Operator	-	Doosan 225	Exc/thumb	R22802			ACM Exc		X	0201
K. Pittser		Operator		CAT D6T	Bulldozer	R22801			Demol		X	0201
		Operator		Trimble GCS900	GPS for Dozer	3655			Trans		X	0201
A. Macias	5	Truck Driver	1	CAT 966K	Loader	R22828			Import T			0201
E. McKinley	12	Truck Driver	-	CAT 14H	Motor Patrol	3427	_		Back	hll		0201
		Labor	1	CAT 621F	Water Pull	R22800	5					
		Labor	1	10,000 Gallon	Water Tower	3369	3					
			1	2 000 C-II	Loader/Forks	D22904	12					
			-	2,000 Gallon CAT XQ20	Water Truck 25KW Genset	R22804 R22809	5					
			-	CAT DCA45	45KVA Genset	R22810	5					
			-		Wheel Wash	K22010	5					
I. Seymor	3	Field Mechanic	1	Neptune Ford F650	Service Truck	3593	2		Equipme	nt Fuol	X	2207
i. Seymor	3	rieid Mechanic	-	Ford F650	Lube Truck	3700	1		Demol		А	0102
	: Walker s Trucks w Kris Eve Pitman li	ith ACM materia rett with Logistic ne was removed i	eations to deplo al were lined, lo Solutions was on sections & in	y liners inside trailers. aded & wrapped for d on site to make determ dividually wrapped in oss the teeth of the buc	ination of susp plastic.	ected asbes						
		f the Doosan & b		oss the teeth of the buc	Ret to leave a	sinootii iiiii	511.					
JOB Deliveries Supplier/Subcontrac	t On-site?	Quantity	Description of D	elivery, Materials, Service	Notes							
Impact Trucking	on-site:	Quantity	Import 0 loads of		,							
Werdco Trucking	Yes	5	Export ACM/Dit	ch Soils. 5 Loads of ACM &		h soils.						
Diamondback				, Record Progress & Final A								
Walker Specialty	Yes	10		Man Crew (sent half the cre	ew home after 8 h	ours)						
Geotek			Tested backfill de	ensity.								
		<del> </del>	1									
Canyon State Oil			Delivered 0 gallo	ns of Fuel								
Material Quantities												
Type II Road Mat'l		Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTAL	L TONS	Water
0/0	102.00	307.00	0	0	0	0	17	21	351.00		0.00	4
Miscellaneous/Notes:	:											
-												

Client rep:\_

Signature:\_

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 3, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate WBS Coding N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 A. Buell A. Simmons Project Director Project Manager N/A N/A 2.0 286.06 Const. Manager Project Engineer R. Whitman 8.0 N/A 1,096.48 2.0 \$ 110.34 \$ 115.83 220.68 D. Johnson Safety Manager R. Lee N/A N/A 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ J. Borth I. McCauley R. Malone Foreman Operator 4.0 8.0 160.84 Operator K. Pittser Operator Operator 0201 0201 159.35 5.0 Truck Driver A. Macias 31.87 \$ 0201 E. McKinley Truck Driver Labor 4.0 8.0 \$ 31.87 \$ 29.10 \$ 39.70 \$ 35.60 \$ 445.08 0201 0201 35.60 \$ Labor 29.10 \$ 0201 3.0 \$ Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor 168.36

				Standby	Operating			
Equipment		Unit #	Operating Hours	Hours	Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	12.0	-	\$ 121.29	\$ 84.46	\$ 1,455.48	0201
Trimble GCS900	GPS for Exc.	3704	12.0	-	\$ 37.98	\$ 36.30	\$ 455.76	0201
Doosan 225	breaker			10.0	\$ 201.72	\$ 170.63	\$ 1,706.30	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655		-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427		-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	12.0	-	\$ 57.17	\$ 35.49	\$ 686.04	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593	2.0	-	\$ 42.42	\$ 35.83	\$ 84.84	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207
					Total I	Equipment	\$ 5,568.02	-

Total Labor \$

3,463.49

Materials (Description)	Vendor	Cost		Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	\$	102.00	\$ 2,434.74	
Transport SW to Apex	Werdco Trucking	\$ 10.13	\$	350.88	\$ 3,554.41	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11		0	\$	
		\$ -			\$ -	
		\$ -			\$	
		\$ -			\$	
		Total !	Mate	rials	\$ 5,989.15	

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew (sent half the crew home after 8 h	\$ 912.18	10	\$ 9,121.80	0201
Geotek	Tested backfill density.	\$ -		\$ -	0201
		\$ -		\$ -	
		\$ -		\$ -	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$ -	2207
		Total Sul	ocontractors	\$ 9,121.80	

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman	1	\$ 106.62	\$	106.62	2201

TV E	nvii	rocon		2013 NERT	_		rson					
				Daily Re			70 to 80 degrees			ı	T	
REPORT BY:	R. Whitm			Weather:	ļ		Clear & breezy.			Date:	10/4	/2013
Safety Meeting	Yes	Safety Meeting T	opic : Observati	ons & Planned Activit	ies.					Day:	Fr	iday
					Overcites	Nito Shinn (I	Environ) & Krie	Everett (I S)		Chife.	6:00	16:00
p	Personel on s	ite		Equipment of		Tuta Sililii (I	zaviron) & Kris	Evereu (ES)		omr.	Activities	
Operator's Name	Hours					Fauin #	Hours On	Standby	Site One	rations	Acuvino	WBS
A. Buell	110015							Standby			х	2201
A. Simmons	2		1				Ü				X	2202
R. Whitman							8					0101
D. Johnson	2					3926						
R. Lee	8						10		Surv	ev		0401
J. Borth												0201
I. McCauley	10				breaker						X	0201
R. Malone				Doosan 225	Exc/thumb	R22802					X	0201
K. Pittser				CAT D6T	Bulldozer				Demol	ition		0201
											X	0201
A. Macias	5	Truck Driver		CAT 966K	Loader	R22828						0201
E. McKinley	10	Truck Driver		CAT 14H	Motor Patrol	3427						0201
		Labor		CAT 621F	Water Pull	R22800	5					
		Labor		10,000 Gallon	Water Tower	3369	5					
					Loader/Forks							
				2,000 Gallon	Water Truck	R22804	10					
				CAT XQ20	25KW Genset	R22809	5					
				CAT DCA45	45KVA Genset	R22810	5					
				Neptune	Wheel Wash		5					
I. Seymor	1	Field Mechanic		Ford F650	Service Truck	3593			Equipme	nt Fuel	X	2207
		Safety Meeting Topic: Observations & Planned Activities.   Date:			0102							
	Hauled to Plugged t Walker so Trucks w Kris Ever	Apex for dispose the exposed end of the up wrapping st ith ACM materia tett with Logistic	al.  f the Pitman lin  ations to deploy al were lined, los Solutions was o	e at the property line v liners inside trailers. ded & wrapped for di n site to make determ	sposal at Apex	ected asbest		n final load.	_			
Activity Desc:	Ready for	sampling. Surve	ey for final exca	vation will be perform		e results co	me back.					
JOB Deliveries												
Supplier/Subcontract	On-site?	Quantity			e, Notes							
Impact Trucking Werdco Trucking	Yes	6			& 16 Loads of dit	ch soils						
Diamondback												
Walker Specialty	Yes	5	ACM Removal. 8	Man Crew (Half the crew			•		•			
Geotek			Tested backfill de	nsity.								
			<b> </b>									
Canyon State Oil	-		Delivered 0 gallo	ns of Fuel								
Material Quantities			and a gamo									
Type II Road Mat'l	ACM	Total ACM	General Tons	Total General Tone	General Loads	Total Loads	Waste Loads	Total Lde	Off-Site Tn	TOTAL	L TONS	Water
0 / 0	19.00											3
Miscellaneous/Notes:				•	•		. ~		- 32100			

Client rep:\_\_

# 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs See Activity Descriptions above October 4, 2013

Description of Work Performed: Date Work Performed:

Date Work refformed:	October 4, 2015							
Labor (Employee)	Classification	Reg Hrs	OT Hrs	Reg Rate	OT Rate	Amount	WBS Coding	
A. Buell	Project Director	-	N/A	\$ 155.31	N/A	\$ -	2201	
A. Simmons	Project Manager	2.0	N/A	\$ 143.03	N/A	\$ 286.06	2201	
R. Whitman	Const. Manager	8.0	N/A	\$ 137.06	N/A	\$ 1,096.48	2201	
D. Johnson	Project Engineer	2.0	N/A	\$ 110.34	N/A	\$ 220.68	2201	
R. Lee	Safety Manager	8.0	N/A	\$ 115.83	N/A	\$ 926.64	2202	
J. Borth	Foreman	-		\$ 43.00	\$ 56.12	\$ -	0201	
I. McCauley	Operator		10.0	\$ 40.21	\$ 52.01	\$ 520.10	0201	
R. Malone	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
K. Pittser	Operator	-	-	\$ 40.21	\$ 52.01	\$ -	0201	
	Operator	-	-	\$ 36.04	\$ 45.85	\$ -	0201	
A. Macias	Truck Driver		5.0	\$ 31.87	\$ 39.70	\$ 198.50	0201	
E. McKinley	Truck Driver		10.0	\$ 31.87	\$ 39.70	\$ 397.00	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
	Labor	-		\$ 29.10	\$ 35.60	\$ -	0201	
				\$ -	\$ -	\$ -		
				\$ -	\$ -	\$ -		
				\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
		-		\$ -	\$ -	\$ -		
I. Seymor	Field Mechanic		1.0	\$ 43.00	\$ 56.12	\$ 56.12	2201	
		-	·	\$ -	\$ -	\$ -		

Total Labor \$ 3,701.58

Equipment				Standby	Operating			
Equipment		Unit #	Operating Hours	Hours	Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	8.0	-	\$ 9.54	\$ 5.09	\$ 76.32	2201
Chevy	Pickup	3926	-	-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	10.0	-	\$ 121.29	\$ 84.46	\$ 1,212.90	0201
Trimble GCS900	GPS for Exc.	3704	10.0	-	\$ 37.98	\$ 36.30	\$ 379.80	0201
Doosan 225	breaker		-	-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801	-	-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828	-	-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427	-	-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	5.0	-	\$ 96.08	\$ 64.84	\$ 480.40	0201
10,000 Gallon	Water Tower	3369	5.0	-	\$ 4.74	\$ 3.55	\$ 23.70	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804	10.0	-	\$ 57.17	\$ 35.49	\$ 571.70	0201
CAT XQ20	25KW Genset	R22809	5.0	-	\$ 12.27	\$ 4.95	\$ 61.35	0201
CAT DCA45	45KVA Genset	R22810	5.0	-	\$ 23.20	\$ 10.88	\$ 116.00	0201
Neptune	Wheel Wash		5.0	-	\$ 60.69	\$ 58.17	\$ 303.45	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	1.0	-	\$ 42.06	\$ 35.49	\$ 42.06	2207

Total Equipment \$ 3,344.00

Materials (Description)	Vendor	Cost		Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.8	7 \$	18.66	\$ 445.41	
Transport SW to Apex	Werdco Trucking	\$ 10.1	3 \$	361.03	\$ 3,657.23	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.1	1	0	\$ -	
		\$ -			\$ -	
		\$ -			\$ -	
					é	

Total Materials \$ 4,102.65

Subcontractors	Work Performed		Cost	Hours	Amount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$	-		\$ -	0201
Walker Specialty	ACM Removal. 8 Man Crew (Half the crew for 10 hours)	\$	912.18	5	\$ 4,560.90	0201
Geotek	Tested backfill density.	\$	-		\$ -	0201
	·	\$	-		\$ -	
		\$	-		\$ -	
Canvon State Oil	Delivered 0 gallons of Fuel	S	-		\$ -	2207

Total Subcontractors \$ 4,560.90

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons	0.25	\$ 106.62	\$	26.66	2201
Richard Whitman	1	\$ 106.62	\$	106.62	2201

	nvi	rocon			Tronox Sum eport Job # 1	=	rson					
REPORT BY:	R. Whitm	an		Weather:	(temp., wind, pred		80 to 90 degrees Clear & breezy.	s		Date:	10/5	5/2013
Safety Meeting	No No	Safety Meeting T	Topic:	weather.			Clear & breezy.			Day:	i e	urday
Barety Meeting	110		•							Day.	Satt	Iday
					Oversite:	(Environ) &	(LS)			Shift:		
	Personel on :	site		Equipment of	on Site						Activities	
Operator's Name	Hours	Position		Type	Desc	Equip #	Hours Op.	Standby	Site Ope	rations		WBS
A. Buell		Project Director	_	Chevy	Pickup	3775			Manag	ement		2201
A. Simmons		Project Manager	_	Chevy	Pickup	3846			Health &			2202
R. Whitman		Const. Manager	_	Chevy	Pickup	3844			Mobili	zation		0101
D. Johnson		Project Engineer	-	Chevy	Pickup	3926						-
R. Lee		Safety Manager	-	CAT 345	Excavator	R22811			Surv			0401
J. Borth		Foreman	-	Trimble GCS900	GPS for Exc.	3704			Site Se			0201
I. McCauley		Operator	-	Doosan 225	breaker	D. A. A. C. A.			Soil Exc			0201
R. Malone		Operator	_	Doosan 225	Exc/thumb	R22802			ACM Exc			0201
K. Pittser		Operator	_	CAT D6T	Bulldozer	R22801			Demo			0201
A Manian		Operator	-	Trimble GCS900 CAT 966K	GPS for Dozer	3655			Trans			0201
A. Macias		Truck Driver			Loader Mater Betral	R22828			Import T			0201
E. McKinley		Truck Driver Labor		CAT 14H CAT 621F	Motor Patrol Water Pull	3427 R22800			Back	XIIII		0201
		Labor		10,000 Gallon	Water Tower	3369						
		Labor		10,000 Ganon	Loader/Forks	5507						
				2,000 Gallon	Water Truck	R22804						
				CAT XQ20	25KW Genset	R22809						
				CAT DCA45	45KVA Genset	R22810						
				Neptune	Wheel Wash							
I. Seymor		Field Mechanic		Ford F650	Service Truck	3593			Equipme	ent Fuel		2207
•				Ford F650	Lube Truck	3700			Demo			0102
Activity Desc	:											
Activity Desc	:											
Activity Desc	:											
IOP Deliner												
JOB Deliveries	ot On cite?	Overtite	Docorieties 63	Dolivory Motorials C.	no Notos							
Supplier/Subcontrac Impact Trucking	t On-site?	Quantity	Import 0 loads o	Delivery, Materials, Servior f general fill.	e, riotes							
Werdco Trucking			Export ACM/Di		& 16 Loads of dito	h soils.						
Diamondback			Pre Topo, Layou	t, Record Progress & Final								
Walker Specialty			ACM Removal.									
Geotek	-		Tested backfill d	lensity.								
	-	+	1									
Canyon State Oil	1	<del>†</del>	Delivered 0 gall	ons of Fuel								
Material Quantities	;	•										
Type II Road Mat'l		Total ACM	General Tons	Total General Tons	General Loads	Total Loads	Waste Loads	Total Lds	Off-Site Tn	TOTA	L TONS	Water
0/0	0	235.97	0	0	0	0	0	37	0		98.75	3
Miscellaneous/Notes	•	2000										
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-											

ignature:\_\_\_\_\_ Client rep:\_\_\_\_\_

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Estimated Costs Description of Work Performed: See Activity Descriptions above Date Work Performed: October 5, 2013 Reg Hrs Labor (Employee) Classification OT Hrs Reg Rate OT Rate Amount WBS Coding N/A N/A N/A N/A N/A \$ 155.31 \$ 143.03 \$ 137.06 \$ 110.34 \$ 115.83 A. Buell A. Simmons Project Director Project Manager N/A \$ N/A \$ R. Whitman Const. Manager Project Engineer Safety Manager N/A D. Johnson R. Lee N/A 56.12 \$ 56.12 \$ 52.01 \$ 52.01 \$ 52.01 \$ 45.85 \$ 39.70 \$ 43.00 \$ 40.21 \$ 40.21 \$ 40.21 \$ 36.04 \$ J. Borth I. McCauley R. Malone Foreman Operator Operator Operator Operator Truck Driver K. Pittser 0201 0201 A. Macias \$ 31.87 \$ 0201 0201 0201 0201 E. McKinley Truck Driver Labor 31.87 \$ 29.10 \$ 39.70 \$ 35.60 \$ 35.60 \$ Labor 29.10 \$ Field Mechanic 43.00 \$ 56.12 \$ 2201 I. Seymor

Total Labor \_\$ -

Equipment		Unit #	Operating Hours	Standby Hours	Operating Rate	Standby Rate	Amount	WBS Coding
Chevy	Pickup	3775		-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3846	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3844	-	-	\$ 9.54	\$ 5.09	\$ -	2201
Chevy	Pickup	3926		-	\$ 9.54	\$ 5.09	\$ -	2201
CAT 345	Excavator	R22811	-	-	\$ 121.29	\$ 84.46	\$ -	0201
Trimble GCS900	GPS for Exc.	3704	-	-	\$ 37.98	\$ 36.30	\$ -	0201
Doosan 225	breaker			-	\$ 201.72	\$ 170.63	\$ -	0201
Doosan 225	Exc/thumb	R22802	-	-	\$ 112.71	\$ 85.31	\$ -	0201
CAT D6T	Bulldozer	R22801		-	\$ 85.40	\$ 54.60	\$ -	0201
Trimble GCS900	GPS for Dozer	3655	-	-	\$ 37.98	\$ 36.30	\$ -	0201
CAT 966K	Loader	R22828		-	\$ 126.92	\$ 85.31	\$ -	0201
CAT 14H	Motor Patrol	3427		-	\$ 69.89	\$ 41.46	\$ -	0201
CAT 621F	Water Pull	R22800	-	-	\$ 96.08	\$ 64.84	\$ -	0201
10,000 Gallon	Water Tower	3369		-	\$ 4.74	\$ 3.55	\$ -	0201
	Loader/Forks		-	-	\$ 58.89	\$ 40.54	\$ -	0201
2,000 Gallon	Water Truck	R22804		-	\$ 57.17	\$ 35.49	\$ -	0201
CAT XQ20	25KW Genset	R22809		-	\$ 12.27	\$ 4.95	\$ -	0201
CAT DCA45	45KVA Genset	R22810		-	\$ 23.20	\$ 10.88	\$ -	0201
Neptune	Wheel Wash			-	\$ 60.69	\$ 58.17	\$ -	0201
Ford F650	Service Truck	3593		-	\$ 42.42	\$ 35.83	\$ -	0201
Ford F650	Lube Truck	3700	-	-	\$ 42.06	\$ 35.49	\$ -	2207

Total Equipment \$

Materials (Description)	Vendor	Cost	Tons	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	0	\$ -	
Transport SW to Apex	Werdco Trucking	\$ 10.13	0	\$ -	
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	0	\$ -	
		\$ -		\$ -	
		\$ -		\$ -	
		s -		S -	

Total Materials \$ -

Subcontractors	Work Performed	Cost	Hours	A	mount	WBS Coding
Diamondback	Pre Topo, Layout, Record Progress & Final As-built	\$ -		\$	-	0201
Walker Specialty	ACM Removal. 8 Man Crew	\$ 912.18		\$	-	0201
Geotek	Tested backfill density.	\$ -		\$	-	0201
		\$ -		\$	-	
		\$ -		\$	-	
Canyon State Oil	Delivered 0 gallons of Fuel	\$ -		\$	-	2207

Total Subcontractors \$ -

Per Diems / Mileage	Days	Rate	Amount		WBS Coding
Andrew Simmons		\$ 106.62	\$	-	2201
Richard Whitman		\$ 106.62	S	-	2201

#### 2013 NERT Tronox Sump - Henderson Job # 1491501 Daily Force Account Worksheet Summary Estimated Costs for Week Ending 10/6/2013

Date Work Performed:

Labor (Employee)	Classification	Reg Hrs	OT Hrs	R	leg Rate	OT Rate	Amount	WBS Coding
A. Buell	Project Director	-	N/A	\$	155.31	N/A	\$ -	2201
A. Simmons	Project Manager	16.0	N/A	\$	143.03	N/A	\$ 2,288.48	2201
R. Whitman	Superintendent	33.0	N/A	\$	137.06	N/A	\$ 4,522.98	2201
D. Johnson	Project Engineer	16.0	N/A	\$	110.34	N/A	\$ 1,765.44	2201
R. Lee	Safety Manager	32.0	N/A	\$	115.83	N/A	\$ 3,706.56	2202
J. Borth	Foreman	-	ı	\$	43.00	\$ 56.12	\$ -	0201
I. McCauley	Operator	25.0	18.0	\$	40.21	\$ 52.01	\$ 1,941.43	0201
R. Malone	Operator	=	-	\$	40.21	\$ 52.01	\$ =	0201
K. Pittser	Operator	=	-	\$	40.21	\$ 52.01	\$ =	0201
A. Macias	Driver	11.0	5.0	\$	31.87	\$ 39.70	\$ 549.07	0201
E. McKinley	Driver	25.0	18.0	\$	31.87	\$ 39.70	\$ 1,511.35	0201
	Laborer	-	ı	\$	29.10	\$ 35.60	\$ -	0201
	Laborer	-	,	\$	29.10	\$ 35.60	\$ -	0201
		=	-	\$	-	\$ -	\$ =	
I. Seymor	Field Mechanic	1.0	4.0	\$	43.00	\$ 56.12	\$ 267.48	2201
ĺ		-	-	\$	-	\$ -	\$ -	

Total Labor \$ 16,552.79

		Operating	Standby	(	Operating				
Equipment	Unit#	Hours	Hours		Rate	Stan	ndby Rate	Amount	WBS Coding
Chevy Pickup	3775	32.0	-	\$	9.54	\$	5.09	\$ 305.28	2201
Chevy Pickup	3846	-	-	\$	9.54	\$	5.09	\$ -	2201
Chevy Pickup	3844	33.0	1	\$	9.54	\$	5.09	\$ 314.82	2201
Chevy Pickup	3926	-	1	\$	9.54	\$	5.09	\$ -	2201
CAT 345 Excavator	R22811	42.0	2.0	\$	121.29	\$	84.46	\$ 5,263.10	0201
Trimble GCS900 for Excavator	3704	42.0	2.0	\$	37.98	\$	36.30	\$ 1,667.76	0201
Doosan 210 with Breaker		1.0	29.0	\$	201.72	\$	170.63	\$ 5,149.99	0201
Doosan 210 with Thumb		-	1	\$	112.71	\$	85.31	\$ -	0201
CAT D6T Bulldozer	R22801	1.0	1	\$	85.40	\$	54.60	\$ 85.40	0201
Trimble GCS900 for Bulldozer	3655	1.0	1	\$	37.98	\$	36.30	\$ 37.98	0201
CAT 966K Front-end Loader	R22828	-	-	\$	126.92	\$	85.31	\$ =.	0201
CAT 14H Motor Patrol	3427	1.0	1	\$	69.89	\$	41.46	\$ 69.89	0201
CAT 621F Water Pull	R22800	15.0	1	\$	96.08	\$	64.84	\$ 1,441.20	0201
10,000 Gallon Water Tower	3369	20.0	1	\$	4.74	\$	3.55	\$ 94.80	0201
		-	1	\$	58.89	\$	40.54	\$ -	0201
2,000 Gallon Water Truck	R22804	43.0	2.0	\$	57.17	\$	35.49	\$ 2,529.29	0201
CAT XQ20 Generator	R22809	20.0	-	\$	12.27	\$	4.95	\$ 245.40	0201
CAT DCA45 Generator	R22810	15.0	1	\$	23.20	\$	10.88	\$ 348.00	0201
Neptune Wheel Wash		15.0	1	\$	60.69	\$	58.17	\$ 910.35	0201
Ford F650 Service Truck	3593	2.0	1	\$	42.42	\$	35.83	\$ 84.84	2201
Ford F650 Lube Truck	3700	3.0	-	\$	42.06	\$	35.49	\$ 126.18	2201

Total Equipment \$ 18,674.28

Subcontractors	Work Performed	Cost	Hours	Amount	WBS Coding
Walker Specialty Crew	ACM Removal	\$ 912.18	27.0	\$ 24,628.86	0201
Diamondback	Surveyor	\$ -	-	\$ -	0401
Geotek	Density Testing	\$ -	-	\$ -	0201

Total Subcontractors \$ 24,628.86

Materials (Description)	Vendor	Cost	Ton	Amount	WBS Coding
Transport ACM to Apex	Werdco Trucking	\$ 23.87	325	\$ 7,757.75	0201
Transport SW to Apex	Werdco Trucking	\$ 10.13	791	\$ 8,012.83	0201
Import Backfill from BRQ	Impact Sand & Gravel	\$ 11.11	-	\$ -	0201
Dust Permit Mod	Clark County	\$ 225.00	1	\$ 225.00	0101
Mob Doosan w/ Breaker	Neff Rental	\$ 426.67	1	\$ 426.67	0101

Total Materials \$ 16,422.25

Per Diems / Mileage	Days		Rate	Amount	WBS Coding
Andrew Simmons	2.00	\$	106.62	\$ 213.	24 2201
Richard Whitman	4.25	\$	106.62	\$ 453.	14 2201
Dennis Johnson	2.0	\$	106.62	\$ 213.	24 2201
Reggie Lee	4.0	\$	106.62	\$ 426.	48 2201
John Borth	İ	\$	94.77	\$ -	2201
Russ Malone	Ü	\$	94.77	\$ -	2201
Kevin Pittser	-	\$	94.77	\$ -	2201
Ivan Seymor	İ	\$	94.77	\$ -	2201
Ike McCalley	4.25	\$	94.77	\$ 402.	77 2201
		700	1 12	é 1700	0.5

Total per diems \$ 1,708.87

## Appendix D

Asbestos Survey and Visual Clearance Report



July 14, 2011

Mr. John Pekala ENVIRON International Corporation 560 West Lake Mead Parkway Henderson, Nevada 89015

Regarding:

Limited Asbestos Survey-RZ-E-16B Nevada Environmental Response Trust

560 West Lake Mead Parkway Henderson, Nevada 89015 Project – CON111106

Dear Mr. Pekala,

Logistical Solutions, LLC (LoSo) is pleased to provide ENVIRON International Corporation the results of the *Limited Asbestos Survey* conducted for the Nevada Environmental Response Trust site located at 560 West Lake Mead Parkway in Henderson, Nevada. The purpose of the limited asbestos survey (LAS) was to identify, within reason, the presence and location of potential asbestos-containing materials (ACMs) within Remediation Zone RZ-E-16B (project area).

The scope-of-work performed as part of this LAS included a visual survey of the project area, bulk-material sample collection of suspect ACMs, laboratory analysis, and preparation of this report.

#### **ASBESTOS REGULATIONS**

#### EPA - National Emission Standard for Hazardous Air Pollutants (NESHAP)-Asbestos

The *United States Environmental Protection Agency* (EPA) regulates the emission of asbestos in Title 40 of the *Code of Federal Regulations* (CFR), Chapter I, Subchapter C, Part 61, Subpart M, *National Emissions Standards for Hazardous Air Pollutants* (NESHAP). The NESHAP provides regulatory standards for the control of asbestos emissions during the removal and/or abatement of regulated asbestos containing material (RACM).

RACM is defined by NESHAP as meeting any of the following definitions: 1) a friable asbestos material; 2) a Category I non-friable ACBM that has become friable; 3) a Category I non-friable asbestos containing building materials (ACBM) that will be or has been subject to sanding, grinding, cutting, or abrading, or 4) a Category II non-friable ACBM 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.

The NESHAP provides the following definitions for friable, non-friable, Category I non-friable, and Category II non-friable asbestos material:

- ♦ Friable asbestos material means any material containing more than one percent asbestos.... that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.
- ♦ Non-friable asbestos material means any material containing more than one percent asbestos.... that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand

pressure.

- Category I non-friable asbestos-containing material (ACM) means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos.
- ♦ Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than one percent asbestos...that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

According to the NESHAP, RACM must be removed prior to a demolition or renovation of a building. The NESHAP also requires State and local notifications, proper handling, and proper disposal of RACM that may be removed or disturbed during any demolition, repair, or maintenance activities involving the RACM.

#### **OSHA - General Construction Standard**

The Occupational Safety and Health Administration (OSHA) regulates exposure to airborne asbestos for construction workers in Title 29 CFR, Part 1926.1101, General Construction Standard (GCS). The GCS regulates exposure in all work as defined in 29 CFR 1910.12(b), including, but not limited to the following:

- Demolition or salvage of structures where asbestos is present;
- Removal or encapsulation of materials containing asbestos;
- ♦ Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos;
- Installation of products containing asbestos;
- ♦ Asbestos spill/emergency cleanup;
- ♦ Transportation, disposal, storage, containment of and housekeeping activities involving asbestos or products containing asbestos, on the site or location at which construction activities are performed;
- ♦ Coverage under this standard shall be based on the nature of the work operation involving asbestos exposure; and
- This section does not apply to asbestos-containing asphalt roof coatings, cements, and mastics.

The GCS, which requires proper training of workers prior to the commencement of work, classifies asbestos-related work under this section into four classes:

- ♦ Class I activities involving the removal of thermal system insulation (TSI) and surfacing asbestos-containing material (ACM) and potential asbestos-containing material (PACM);
- ♦ Class II activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics;
- ♦ Class III repair and maintenance operations, where "ACM" including TSI ACM, surfacing ACM, and PACM may be disturbed; and
- ◆ Class IV maintenance and custodial activities during which employees contact, but do not disturb, ACM or PACM and activities to clean up dust, waste, and debris resulting from Class I, Class II, and Class III activities.

#### LIMITED ASBESTOS SURVEY

#### **Material Survey**

On July 12, 2011, a Nevada-licensed asbestos building inspector visually surveyed the proposed excavation area within RZ-E-16B for the presence of potential ACMs. A photograph of each bulk sample

July 14, 2011 Page 3 of 4

location is included within the attached photograph log. The potential ACMs identified within the project at the time of the survey were as follows:

- ♦ Soil; and
- ♦ Potential ACM.

A total of 5 bulk material samples were collected. The suspect ACM samples were placed in plastic Zip-Loc™ bags. The bags were sealed, labeled, and transported to Forensic Analytical Laboratories, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory. The bulks samples were analyzed for asbestos using the method specified in Appendix E, Subpart E, 40 Code of Federal Regulations, Part 763, Section 1, Polarized Light Microscopy (PLM).

#### Results, Discussion, and Recommendations

Bulk samples BD-3, BD-4, and BD-5 reported ACM concentrations of 99 percent, 10 percent, and 69 percent, respectively. Asbestos was not detected (ND) in the remaining bulk samples or was only reported in a trace percentage (B-1). A copy of the analytical reports and chain-of-custody documentation indicating the sample locations and material descriptions are attached.

The homogenous beige fibrous TSI was identified as ACM. According to OSHA 29 CFR 1926.1101(b), TSI is defined as ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. TSI is a friable material and is classified as RACM, as described in NESHAP 40 CFR 61, Subpart M. The following RACMs were identified:

• Beige fibrous material in soil.

A Nevada-licensed asbestos abatement contractor must be used to remove and dispose of RACM prior to disturbance of the materials. Asbestos work activities are categorized according to OSHA 29 CFR 1926.1101(b). Class I asbestos work is defined as activities involving the removal of TSI ACM, surfacing ACM, and PACM. Class II asbestos work means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics. Class III asbestos work involves repair and maintenance operations, where ACM, including TSI and surfacing ACM and PACM, is likely to be disturbed, and Class IV asbestos work means maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste, and debris resulting from Class I, Class II, and Class III activities.

Federal law requires that asbestos control professionals must be trained on how to properly inspect for the presence of asbestos and to repair and remove it. Training for asbestos abatement professionals is required under AHERA, which is the authority under which EPA issued the EPA Asbestos Model Accreditation Plan (MAP) (40 CFR Part 763, Appendix C to Subpart E). Individuals seeking accreditation as asbestos abatement workers shall complete at least a 4–day training course as outlined in 40 CFR Part 763, Appendix C to Subpart E. The 4–day worker training course shall include lectures, demonstrations, and at least 14 hours of hands-on training.

After ACM removal is considered complete, a post-abatement visual assessment conducted by a Nevada-licensed asbestos project monitor is required to establish that removal has been achieved.

#### **Limitations**

This report has been prepared for the exclusive use of ENVIRON International Corporation. The findings presented herein are based upon observations of our field personnel, points of investigation, and results of laboratory tests performed by Forensic Analytical Laboratories, Inc. All accessible areas of the excavation zone as part of this survey were attempted to be visually surveyed for the presence of potential asbestos-containing materials. However, it is possible that not all potential ACMs located within the excavation zone were identified in this survey.

Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended.

LoSo appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

**Logistical Solutions, LLC** 

Ty L. Salazar, CEM, OHST

Operations Manager

Nevada Asbestos Consultant No. IM-1413

Attachments:

Photograph Log

Aerial Photo with Sampling Locations

Analytical Reports and Chain-of-Custody Documentation

LoSo appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

Logistical Solutions, LLC

Ty L. Salazar, CEM, OHST

**Operations Manager** 

Nevada Asbestos Consultant No. IM-1413

Attachments:

Photograph Log

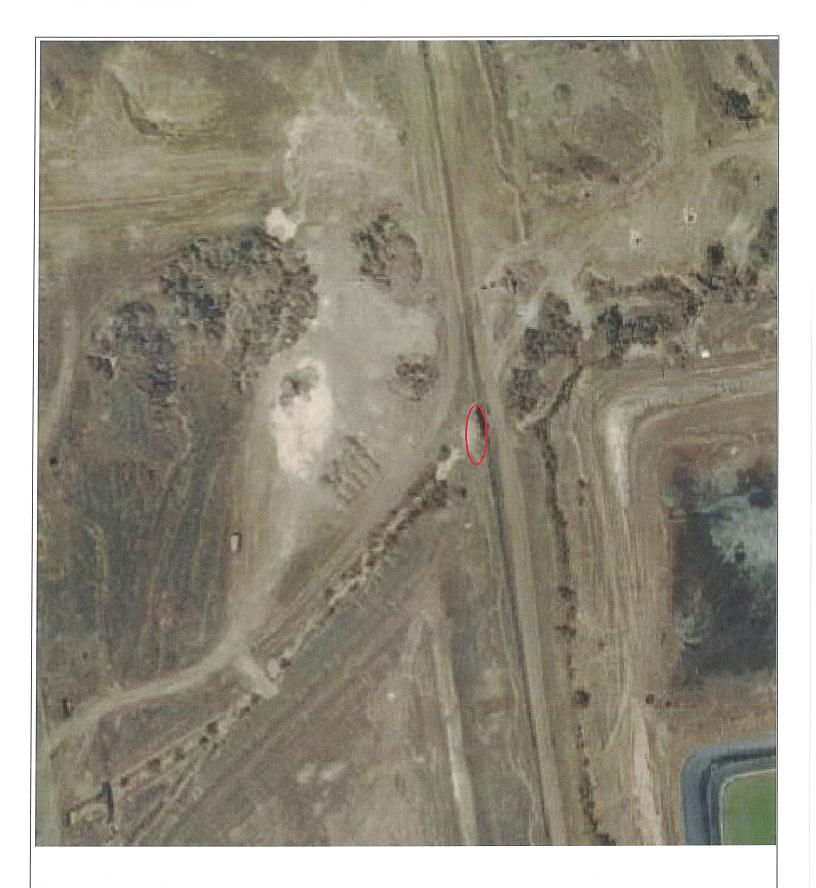
Aerial Photo with Sampling Locations

Analytical Reports and Chain-of-Custody Documentation

## Photograph Log Bulk Sample Locations



	I .	ri		<u> </u>			
Sample ID	Color	Description	Location	Percent Asbestos	Friable or Non-Friable	Estimated Quantities	Condition
BD-001	Brown	Soil	RZ-E-16B	Trace	Friable	~ 100 sq/ft	Poor
BD-002	Off- White	Debris	RZ-E-16B	ND	Friable	~ 100 sq/ft	Poor
BD-003	Beige	TSI Material	RZ-E-16B	99%	Friable	~ 100 sq/ft	Poor
BD-004	Beige	TSI Material	RZ-E-16B	10%	Friable	~ 100 sq/ft	Poor
BD-005	Beige	TSI Material	RZ-E-16B	69%	Friable	~ 100 sq/ft	Poor



## LEGEND

N

Soil and Debris PACM



Approximate Scale: 1 inch ~ 75 feet

## SITE PLAN

Nevada Environmental Response Trust RZ-E-16B

Project Number CON111106





# **Bulk Asbestos Analysis**

(EPA Method 600/R-93-116, Visual Area Estimation)

Logistical Solutions, LLC

Ty Salazar

4780 W. Ann Road

Suite 5-237

N. Las Vegas, NV 89031

Client ID:

L1349

Report Number: Date Received:

B151650 07/12/11

Date Analyzed: **Date Printed:** 

07/13/11 07/13/11

First Reported:

07/13/11

Job ID/Site: CON111106; NERT - Beta Ditch/Loading Ramp (R2-C); NERT Site, Henderson,

Date(s) Collected: 07/12/2011

**FALI Job ID:** 

L1349

**Total Samples Submitted: 10** 

**Total Samples Analyzed:** 

Asbestos Percent in Percent in Asbestos Percent in Asbestos Sample ID Lab Number Type Layer Type Layer Type Layer

**BD-001** 01033500

Layer: Brown Soil

Chrysotile

Trace

Total Composite Values of Fibrous Components:

Asbestos (Trace)

Cellulose (2 %)

**BD-002** 01033501

Layer: Off-White Non-Fibrous Material

ND

Total Composite Values of Fibrous Components:

Asbestos (ND)

Cellulose (Trace)

**BD-003** 

01033502

Layer: Beige Fibrous Material

99 % Chrysotile

Total Composite Values of Fibrous Components:

Asbestos (99%)

**BD-004** 

01033503

Layer: Brown Soil

99 %

Layer: Beige Fibrous Debris

Chrysotile

Total Composite Values of Fibrous Components:

Asbestos (10%)

**BD-005** 

01033504

ND

99 %

ND

Layer: Beige Fibrous Material

Chrysotile

Total Composite Values of Fibrous Components:

Asbestos (69%)

Cellulose (Trace)

Layer: Beige Soil

TF-001

Layer: Grey Non-Fibrous Material

ND

Total Composite Values of Fibrous Components:

Asbestos (ND)

Asbestos (ND)

Cellulose (Trace)

**TF-002** 

01033506

01033505

Layer: Beige Semi-Fibrous Material

ND

Total Composite Values of Fibrous Components:

Cellulose (15 %)

Synthetic (5 %)

B151650 Report Number:

**Date Printed:** 

07/13/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
TF-003	01033507						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Com	ponents: A	sbestos (ND)					
Cellulose (15 %) Synthetic (5 %)							
LA-001	01033508						
Layer: Black Non-Fibrous Material			ND				
Layer: Grey Non-Fibrous Material			ND				
Layer: Off-White Paint			ND				
Total Composite Values of Fibrous Com	ponents: As	sbestos (ND)					
Cellulose (Trace)							
LA-003	01033509						
Layer: Black Non-Fibrous Material			ND				
Layer: Grey Paint			ND				
Layer: Off-White Fibrous Material			ND				
Total Composite Values of Fibrous Com	ponents: As	sbestos (ND)					
Cellulose (Trace) Fibrous Glass (2 %	<b>%</b> )						

Client Name: Logistical Solutions, LLC



Tracy Mitchell, Laboratory Analyst, Las Vegas Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'. Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

Mr. James Hiller ENVIRON International Corporation 2200 Powell Street Emeryville, California 94608



**LOGISTICAL SOLUTIONS** 

Regarding: Visual Inspection Report

RZ-E-16B Soil Excavation Area

**Nevada Environmental Response Trust Site** 

510 4<sup>th</sup> Street

Henderson, Nevada 89015 Project No. CON131029

Dear Mr. Hiller,

Logistical Solutions (Logistical) is pleased to provide ENVIRON International Corporation (ENVIRON) this *Visual Inspection Report of the RZ-E-16B Soil Excavation Area* conducted for the Nevada Environmental Response Trust site located at 510 4<sup>th</sup> Street in Henderson, Nevada. The purpose of the visual inspection was to identify, within reason, the presence and location of potential asbestos-containing materials (ACMs) that were deposited within this portion of the *Beta Ditch* and to remove the ACMs that were identified during a limited asbestos inspection conducted by Logistical in July of 2011.

Envirocon, Inc. (Envirocon) was retained by ENVIRON to excavate soil and debris from within RZ-E-16B. Walker Specialty Construction Inc. (Walker) was retained by Envirocon to conduct ACM removal. Soil excavation was conducted on October 2 - 4, 2013. Logistical observed soil excavation activities and determined ACM-impacted soil versus non-ACM-impacted soil. The materials excavated from RZ-E-16B were briefly staged for loading using an excavator within the asbestos control area. Soil with potential ACM was placed into polyethylene-lined end-dump trucks for transportation and disposal at Apex Regional Landfill (Apex). All excavated soil was adequately wetted during excavation and loading activities. Non-ACM soil was placed in the end-dump trucks without a polyethylene liner and was also hauled to Apex for disposal. A site plan is attached and depicts the general location of the soil excavation area.

#### **Visual Site Inspection**

A visual inspection of the entire excavation area RZ-E-16B was conducted on October 4, 2013 by Logistical. The regulated asbestos zone was assessed for signs of visible ACM debris. Asbestos and/or asbestos containing debris were not observed during the inspection of the regulated asbestos zone.

The visual inspection was conducted in a manner consistent with the recommendations specified in the American Society for Testing and Materials (ASTM) E1368-05 $^{\epsilon 1}$  standard. This report applies only to the subject areas at the time of our inspection.

#### Air Sampling

One air sample was collected from adjacent the work area each day of asbestos removal and soil excavation activities. A total of three samples were collected. Each air sample was collected using a *Gilian® BDX Abatement Air Sampler*. The start and finish air flows were confirmed using a calibrated rotometer to determine sample volumes. The air sample flow rates ranged from 2.0 to 2.2 liters per minute with total sample volumes ranging from 645 to 1,371 liters. The purpose of the air sampling was to determine if asbestos fibers were released in excess of Occupational Safety & Health Administration's (OSHA's) Permissible Exposure Limit (PEL) of 0.10 fiber per cubic centimeter (Fibers/cc) adjacent to the regulated asbestos zone. The samples were sealed, labeled, and transported to Forensic Analytical Laboratories, Inc., a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory using standard chain-of-custody protocol. Each sample was analyzed for asbestos fibers using *Point Count* 

Method (PCM) in accordance to NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'. The following is a summary of the analytical results of the air samples collected:

> 10/02/2013 Sample AS-01 <0.003 Fibers/cc

> 10/03/2013 Sample AS-02 <0.002 Fibers/cc

> 10/04/2013 Sample AS-03 < 0.003 Fibers/cc

As the results depict above, asbestos fibers were not identified in the three air samples collected during asbestos removal activities in excess of OSHA's PEL of 0.10 Fibers/cc. The analytical data and chain-of-custody documentation is attached.

### **Limitations**

This report has been prepared for the exclusive use of ENVIRON International Corporation, as it applies to the subject regulated asbestos zone at the project area. Logistical is not responsible for any claims and damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that future exposure to the airborne asbestos fibers will not occur.

Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended.

Logistical appreciates being of service to ENVIRON International Corporation on this project. If you have any questions or require additional information, please contact us at (702) 596-2021.

Sincerely,

Logistical Solutions, LLC

Kristopher Everett, CEM

Project Manager

NV Asbestos Consultant No. IM-1569

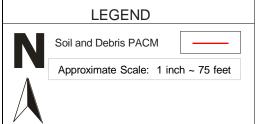
Knistopher Everett

Attachments:

Site Plan

Analytical Report and Chain-of-Custody Documentation





## SITE PLAN

Nevada Environmental Response Trust RZ-E-16B

Project Number CON131029



## Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Logistical Sol	utions, LLC						Client ID:	L13	349
Kris Everett							Report Num	ber: A16	54244
4780 W. Ann	Road						Date Receive	e <b>d:</b> 10/0	04/13
Suite 5-237							Date Analyz	ed: 10/0	08/13
N. Las Vegas,	NV 89031						Date Printed	<b>1</b> : 10/0	08/13
							First Report	<b>ed:</b> 10/0	08/13
Job ID/Site:	CON131029; NERT Site - He Nevada 89015	enderso	on, Nevada; 510	4th Street, He	enderson,		FALI Job II Total Sampl Total Sampl	es Submitted	<b>d:</b> 3
Sample ID	Lab Nu	mber	Date Collected	Volume (L)	Fibers	Fields	Fibers/mm <sup>2</sup>	LOD F/cc	Fibers/cc
AS-01	010623	21	10/04/13	1040.0	1.5	100	<7.0	0.003	< 0.003
	Location: RZ-E-16B/Area San	mple							
AS-02	010623	22	10/04/13	1370.6	3.0	100	<7.0	0.002	< 0.002
	Location: RZ-E-16B/Area San	mple							
AS-03	010623	23	10/04/13	945.0	0.0	100	< 7.0	0.003	< 0.003
	Location: RZ-E-16B/Area Sar	mple							

## Rachel Kolberg, Laboratory Analyst, Las Vegas Laboratory

Intralaboratory Relative Standard Deviation (Sr) per 100 graticule fields: 5 to 20 fibers: 0.514; >20 to 50 fibers: 0.608; >50 to 100 fibers: 0.488

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Client Name & Address:	• •		PO/Job#: CON131029 Date: 10/4/3											
Logistical Solutions, LLC 4780 West Ann Road #5			Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day											
North Las Vegas, NV 89			TOPCM: ID NIOSH 7400A / ID NIOSH 7400B ID Rotometer											
			PLM: 🖂 Stand	PLM: D Standard / D Point Count 400 1000 / D CARB 435										
Contact: Kris Everett			☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield											
Phone: (702) 340-2594	Fax;	(702) 974-1776	☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass)											
E-mail: keverett@losonow	/.com		☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project											
Site: NERT Site - Henders	son, Neva	da	Metals Analysis: Method:											
Site Location: 510 4th Stre			Matrix: Analytes:											
Comments:					Report Via				ĺ					
<u> </u>					:-	Fax	⊠ E-Mail	☐ Verbal Sample	ł					
6 1 10	Date /	Cample to make 10	Description		FOR AIR SAM	APLES O		Area /						
Sample ID	Time	Sample Location /	Description	Туре	Time On/Off	Avg. LPM	Total Time	Air Volume						
AS-01	10/2/13	hZ-E 16B / Am	on Sample	Pi [Pi	1620.	30	550	1040 1	 					
AS-02	10/3/13	NZ-E16B/Am NZE-16B/Ameni NZE-16B/Ameni	suple	P P ICi	0623	2.2	623	1,370,0	1					
AS-03	10/4/13	RZE-16B/A.	. Surple	Pici	1 -0	⊋.\	٦̈́ŽÕ	9456						
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				<u>.</u> [0]										
Sampled By: Kristopher Ev	erett	Dat	(9 415			2.70	·		1					
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Date/Time:  0/4 13	-	Date / Time:		Date / Time:										
Received By:	2	Received By:	· · · · · · · · · · · · · · · · · · ·	Received By:										
Date / Time: / ! 0/ 9//		730 Date / Time:		Date / Time:										
Condition Acceptable? অপুes	🖾 No	Condition Acceptable?	☐ Yes ☐ No		Condition Acceptable? 🖸 Yes 🗀 No									

## Appendix E

Waste Characterization Profile Documentation

Table 1
Soil Analytical Results
Borehole SSAL8-02
Nevada Environmental Response Trust (NERT)
Waste Profile: Soil and Construction Debris

			EPA M	ethod 6020																							
					alpha-	beta-	Heptachlor	Endosulfan		delta-	Endosulfan	alpha-	gamma-	Endrin	Chlordane	gamma-					Endrin			Endosulfan	Hexachloro-		
	Depth		Arsenic	Manganese	внс	внс	epoxide	sulfate	Aldrin	BHC	II	Chlordane	Chlordane	ketone	(total)	внс	Dieldrin	Endrin	Methoxychlor	4,4'-DDD	aldehyde	Heptachlor	Toxaphene	1	benzene	4,4'-DDT	4,4'-DDE
Sample ID	(ft)	Date	r	mg/kg ug/kg																							
SSAL8-02-1BPC	Surface	8/12/2010	13	14,000	2.2	18	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	32	< 1.8	< 1.8	< 1.8	< 1.8	< 3.4	< 1.8	< 1.8	< 1.8	< 69	< 1.8	690	990	2,200
SSAL8-02-2BPC	0 to 1	9/8/2010	12	2,000																				-			
SSAL8-02-3BPC	1 to 2	9/8/2010	11	4,200																				-			
SSAL8-02-4BPC	2 to 3	9/8/2010	27	670																				-			
SSAL8-02-5BPC	3 to 4	8/12/2010	3.4	780	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	1.2	< 1.9	< 1.9	< 1.9	< 1.9	1.4	4.3	< 1.9	< 1.9	< 73	< 1.9	92	40	220

Page 1 of 1 E N V I R O N

#### Summary of Historical Uses of the Beta Ditch

The NERT Site (the Site) is traversed from west to east by a drainage ditch known as the Beta Ditch that historically conveyed liquid wastes from the Site and from neighboring facilities located to the west. The Beta Ditch was constructed in approximately 1941 or 1942 during construction of the BMI Complex by the U.S. Government, and it was historically used for two primary purposes:

- 1941/1942 1976: Transfer of a variety of liquid and slurried wastes including: acid effluent, waste caustic liquor, sodium chlorate, potassium chlorate, potassium perchlorate, manganese perchlorate, ammonium perchlorate, and boron process waste, originating from U.S Government operations and the various operating companies. These wastes, as well as stormwater run-off, were transmitted to the upper and lower BMI ponds located to the northeast of the Site (Kleinfelder 1993); and
- 1976 2010: By January 1976, the facility achieved a "zero discharge" industrial waste water effluent program (ENSR/AECOM 2008). Between 1976 and 1993, the Beta Ditch conveyed non-contact cooling water, and between 1976 and 2010, the Beta Ditch conveyed storm water runoff. These nonindustrial effluents were transmitted to the Las Vegas Wash by the Alpha Ditch or Pittman bypass pipeline (Kleinfelder 1993).

In early 2010, the Beta Ditch was blocked by an earthen dam near the eastern end of the Site, along the TIMET-NERT property boundary (Northgate 2010). Much of the Beta Ditch was excavated and impacted soils were disposed of at the Apex Landfill in 2010-2011. This large portion of the Beta Ditch was re-graded, channelized, and now includes a retention basin. The west end of the Beta Ditch at the Site continues to receive storm water drainage from the neighboring property to the west (ENVIRON 2012). A small portion of the Beta Ditch, at the east end near the TIMET property line was not excavated during 2010-2011. Excavation of this area is planned for September-October 2013.

#### References

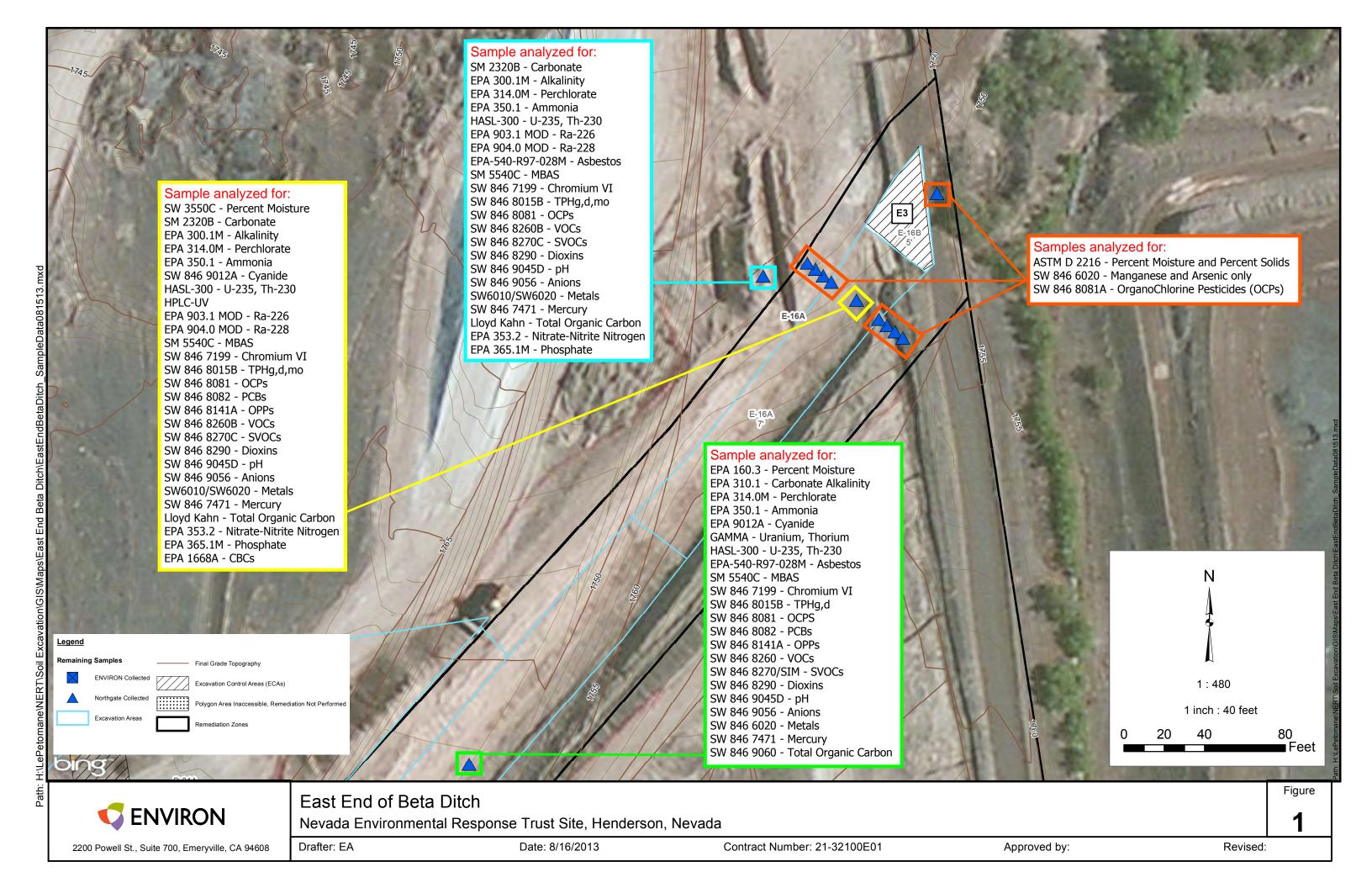
ENSR/AECOM, 2008. Summary of Available Data for LOU 5 Beta Ditch, Tronox Facility, Henderson, Nevada. June 30.

ENVIRON, 2012. Remedial Investigation and Feasibility Study Work Plan, Nevada Environmental Response Trust Site; Henderson, Nevada. December 17.

Kleinfelder, 1993. Environmental Conditions Assessment, Kerr-McGee Chemical Corporation, Henderson, Nevada. April.

Northgate, 2010. Appendix A of the Excavation Plan for Phase B Soil Remediation of RZ-E, Addendum to the Removal Action Work Plan. November 3.

1 ENVIRON



Requested Disposal Facility: 3825	5 Apex Regiona	ILF NV			Waste	e Profile #	
Saveable fill-in form. Restricted printing until all requi	red (vellow) fields are con	moleted					
I. Generator Informatio		ripleted.	İ	Sales Rep	#:		
Generator Name: Nevada Env		ponse Trust (NERT	)				
	Fourth Street		,				
City: Henderson	County: Clar	·k	State: N	Nevada		Zip: 89015	
State ID/Reg No: n/a	<del>                                     </del>	al/Waste Code: n/a		(if a	applicable)	NAICS#: n	 /a
Generator Mailing Address (if di				50			
City: Chicago	County: Coo		State:			Zip: 60606	
Generator Contact Name: Andr	ew Steinberg			Email:	andrew.st	einberg@lepe	etomanein
Phone Number: (312) 498-2800	)	Ext:	Fax Nu	mber:			.v
II. Billing Information				,			
Bill To: ENVIRON International	Corp.		Contact	t Name: Ni	ta Shinn		
Billing Address: 500 Fourth Stre	eet			Email:	nshinn@e	environcorp.co	om
City: Henderson	State: NV		Zip: 890	015	Phone:	(312) 927-11	46
						-	
III. Waste Stream Informa	ition						
Name of Waste: Soil and Cons	truction Debris -	- East End of Beta [	Ditch		_		
Process Generating Waste:							
Soil Remediation - Excavation o	f Soil and Demo	olition of Concrete a	nd Metal	Structures			
Type of Waste:		PROCESS WASTE		LLUTION (		L WASTE	
		EMI-SOLID PO	OWDER	LIQUI	)		
		RUM BAGGED		HER:			
Estimated Annual Volume: 1,	200		ic Yards				
Frequency: ✓	ONE TIME [	ONGOING					
Disposal Consideration: ✓	LANDFILL [	SOLIDIFICATION	1 <u> </u>	IOREMEDIA	ATION		
IV. Representative Sampl				IPLE TAKE	N.		
Is the representative sample coll collected in accordance with U.S.					2	✓ YES or	ON
Type of Sample: COMPOSIT		GRAB SAMPLE	or oqui	valorit raioo	•		
Sample Date: 8/12/2010	- Lock						
Sample ID Numbers: Further den	th intervals sam	npled on 9/8/2010.					
Sample IDs	: SSAL8-02-1B	PC (0' depth), SSAL					
		2-3' depth), SSAL8-(					
and databas	se query results	s. Laboratory analyti	cai repor	is available	upon req	luesi (very iar	ge illes).
		nples were collected ea to a planned exc				le to characte	rize this



				Was	ste Profile #
V. Physica	l Characteristics of	Wests			
Characteristic of	I Characteristics of	waste	0/.	by Weight (i	range)
1. Soil	Ооттропень			by vveigni (i )-100	range)
	Debris (concrete, metal)		0-		
3.					
4. 5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	☐ YES or <b>✓</b> NO	100	NA	NA °F
Attach La		port (and/or Material Safety Data quired Parameters Provided for a		ding Chain	of Custody and
Does this waste		ain regulated concentrations of the follo		and/or	
Herbicides: Chlo		and its epoxides), Lindane, Methoxych			☐Yes or <b></b> INo
	contain reactive sulfides (gr 40 CFR 261.23(a)(5)]?	eater than 500 ppm) or reactive cyanic	le (greater than	250	☐Yes or <b>☑</b> No
Does this waste Part 761?	contain regulated concentra	ations of Polychlorinated Biphenyls (PC	Bs) as defined	in 40 CFR	☐Yes or <b>☑</b> No
Does this waste including RCRA	contain concentrations of lis F-Listed Solvents?	sted hazardous wastes defined in 40 C	FR 261.31, 261	.32, 261.33,	☐Yes or <b>☑</b> No
Does this waste	exhibit a Hazardous Charac	cteristic as defined by Federal and/or S	tate regulations	?	☐Yes or <b>☑</b> No
	contain regulated concentra efined in 40 CFR 261.31?	ations of 2,3,7,8-Tetrachlorodibenzodio	xin (2,3,7,8-TC	CD), or any	☐Yes or <b>☑</b> No
Is this a regulated	d Radioactive Waste as def	ined by Federal and/or State regulation	ns?		☐Yes or <b>☑</b> No
Is this a regulated	d Medical or Infectious Was	te as defined by Federal and/or State i	regulations?		☐Yes or ✔No
Is this waste a re	active or heat generating w	aste?			☐Yes or ✓No
Does the waste of	contain sulfur or sulfur by-pr	oducts?			☐Yes or <b>☑</b> No
Is this waste gen	erated at a Federal Superfu	ind Clean Up Site?			☐Yes or ☑No
Is this waste from	a TSD facility, TSD like fac	cility or consolidator?			☐Yes or ✔No
VI. Certifica	tion				
I hereby certify the description of the	nat to the best of my knowle waste material being offere	dge and belief, the information contain ed for disposal and all known or suspec ed are truthful and complete and are re	cted hazards ha	ve been discl	
I further certify the deliver for dispos facility is prohibited	at by utilizing this profile, ne al any waste which is class ed from accepting by law. I Our company hereby agree	either myself nor any other employee o ified as toxic waste, hazardous waste of shall immediately give written notice of es to fully indemnify this disposal facility	f the company vor infectious was f any change or	vill deliver for ste, or any oth condition per	ner waste material this raining to the waste not
I further certify the	at the company has not alte	ered the form or content of this profile s	heet as provide	d by Republic	Services Inc.
		uthorized agent for NERT	ENVIRO	ON Internation	onal Corp.
Auth	orized Representative Name A	nd Title (Type or Print)		Company Nan	ne
Day Clash of En	IVIRON acting as authorized age	ent for Novada Environmental Response Trust (A	VERT)	7-29-2013	}
	Authorized Representativ	ve signature		Date	



5 Apex Regiona	I LF NV			Waste	e Profile #
ired (vellow) fields are com	poleted				
	ipiotod.		Sales Rep	#:	
	oonse Trust (NERT	)			
County: Clar	k	State:	Nevada		Zip: 89015
State Approva	al/Waste Code: NA		(if a	pplicable)	NAICS#: None
fferent): 35 E	East Wacker Drive,	Suite 15	550		
County: Coo	k	State:	Illinois		Zip: 60606
ew Steinberg			Email: a	andrew.st	einberg@lepetomanein <b>a</b>
0	Ext:	Fax Nu	ımber:		inc.c
Corp.		Contac	t Name: Nit	ta Shinn	
eet			Email: r	nshinn@e	nvironcorp.com
State: NV		Zip: 89	015	Phone:	(312) 927-1146
	acted Layer				
INDUSTRIAL	PROCESS WASTE	. <b>√</b> P(	OLLUTION (	CONTROL	WASTE
SOLID □SI	EMI-SOLID P	OWDER	LIQUID	)	
BULK DF	RUM BAGGED	0	THER:		
		ic Yards	3		
ONE TIME	ONGOING				
LANDFILL [		J 🔲 B	IOREMEDIA	ATION	
	rironmental Responsive Fourth Street County: Clart State Approvation County: Coorew Steinberg Corp. State: NV  Ation acted Soil  INDUSTRIAL SOLID BULK DE	ironmental Response Trust (NERT Fourth Street County: Clark State Approval/Waste Code: NA fferent): 35 East Wacker Drive, County: Cook ew Steinberg 0 Ext:  Corp. eet State: NV  Ation acted Soil  INDUSTRIAL PROCESS WASTE SOLID SEMI-SOLID PO BULK DRUM BAGGED	rironmental Response Trust (NERT) Fourth Street County: Clark State Approval/Waste Code: NA  fferent): 35 East Wacker Drive, Suite 15 County: Cook State:  Wew Steinberg Corp. Ext: State: NV  Ation Corp.  Contacted Soil  Asbestos-Impacted Layer  INDUSTRIAL PROCESS WASTE SOLID SEMI-SOLID POWDER  BULK DRUM BAGGED OT	Sales Reprironmental Response Trust (NERT) Fourth Street  County: Clark State Approval/Waste Code: NA  fferent): ✓ 35 East Wacker Drive, Suite 1550  County: Cook State: Illinois  ew Steinberg Email: a  State: NV  State: NV  Zip: 89015  Asbestos-Impacted Layer  INDUSTRIAL PROCESS WASTE SOLID SEMI-SOLID SEMI-SOLID POWDER LIQUID BULK DRUM BAGGED OTHER:	Sales Rep #:    Sales Rep #:



					Was	te Pro	file#
W 100 11 11		207 4					
	I Characteristics of	Waste		0/ 1			
Characteristic (	components			% by 95-10	Weight (r	ange)	
	bestos Fibers - Friable			0-5	U		
3.							<u> </u>
4.							
5.	0 d = = (d = = =========================	Dana Marta Cantaia Fuer Linuida	0/ 0 1: 1				
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids		рН:		Flash Point
Beige-Brown	None	☐ YES or ✓ NO	100		NA		NA ∘ <sub>F</sub>
Attach La		port (and/or Material Safety Data quired Parameters Provided for t			g Chain (	of Cus	stody and
Herbicides: Chlor		ain regulated concentrations of the follo and its epoxides), Lindane, Methoxychl 3?				□Y	es or 🕢 No
Does this waste oppm)[reference 4	contain reactive sulfides (gr 0 CFR 261.23(a)(5)]?	eater than 500 ppm) or reactive cyanid	le (greater th	han 250	)	□Y	es or <b>√</b> No
Does this waste of Part 761?	contain regulated concentra	tions of Polychlorinated Biphenyls (PC	Bs) as defir	ned in 4	0 CFR	∐Y(	es or 🕢 No
	contain concentrations of lis F-Listed Solvents?	ted hazardous wastes defined in 40 Cl	FR 261.31, :	261.32,	261.33,	□Y	es or No
Does this waste	exhibit a Hazardous Charac	teristic as defined by Federal and/or S	tate regulati	ons?		∐Y€	es or <b>N</b> o
	contain regulated concentra efined in 40 CFR 261.31?	tions of 2,3,7,8-Tetrachlorodibenzodio	xin (2,3,7,8-	TCCD)	, or any	□Y	es or <b>V</b> No
Is this a regulated	d Radioactive Waste as def	ined by Federal and/or State regulation	ns?			∐Y€	es or <b>N</b> o
Is this a regulated	d Medical or Infectious Was	te as defined by Federal and/or State r	egulations?	)		□Y€	es or <b>N</b> o
Is this waste a re	active or heat generating w	aste?				□Y€	es or No
Does the waste of	contain sulfur or sulfur by-pr	oducts?	*			□Y€	es or <b>√</b> No
Is this waste gene	erated at a Federal Superfu	nd Clean Up Site?				□Y€	es or <b>N</b> o
Is this waste from	n a TSD facility, TSD like fac	cility or consolidator?				□Y€	es or 🕢 No
description of the Results/Material 3 I further certify the deliver for disposs facility is prohibite provided herein, being inaccurate I further certify the	at to the best of my knowled waste material being offered waste material being offered Safety Data Sheets submitted by utilizing this profile, neal any waste which is classified from accepting by law. I Our company hereby agreed or untrue.	dge and belief, the information contained for disposal and all known or suspected are truthful and complete and are relither myself nor any other employee of fied as toxic waste, hazardous waste coshall immediately give written notice of es to fully indemnify this disposal facility ared the form or content of this profile suthorized agent for NERT	eted hazards epresentative f the compar or infectious f any change y against an heet as prov	s have to e of the of the ny will of waste, e or corry dama	been disclosive waste.  deliver for or any other or any o	disposa er was taining ing fror	All Analytical al or attempt to te material this to the waste not in this certification es Inc.
	orized Representative Name A				mpany Nam		
San Clash o	f Environ acting as authorize	d agent for Nevada Environmental Response T	Trust (NERT	-) 7	'-29-2013		
	Authorized Representativ	e Signature			Date		



# AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 3825 13 12625 Agent Billing Information Republic Waste Location (Company) Name: **ENVIRON** International Corp. APEX Landfill 500 Fourth Street Address: 13550 US Highway 93 North Las Vegas, NV 89165 City: Henderson 702-599-5907 State: Zip: 89015 Phone: 312 927 1146 Fax: Contact: Nita Shinn County and State Project: Nevada Environmental Response Trust of Origin: Clark, NV Generator Address: 510 Fourth St. Henderson, NV 89015 Additional Information: Contact: Andrew Steinberg 312 498 2800 Special Waste Service. Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Agent, and which is acceptable to the Company as herein provided. 2. Acceptable Waste. Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste"). 3. (A) Rates for Disposal Waste Disposal Method Disposal Rate: Fees / Taxes / Misc. Transportation Soil & Construction Debris Landfill \$23.00 Per Ton 2.3% SWMA \$200.00 Minimum \*\*\*\*Profile good through March 31, 2014\*\*\* Additional Information: EAV: 1200 CY Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations. Cannot Exceed Daily Volume of \_\_\_\_Waived Without Prior Approval of Company, Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein. 1)N/A 4. Term of Agreement. This Agreement is effective for 6 months, commencing 9/11/2013 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days prior written notice. THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE. AGENT REPUBLIC SERVICES/COMPANY . SIGNATURE (AUTHORIZED REPRESENTATIVE) SIGNATURE (AUTHORIZED REPRESENTATIVE) hospent Markin David T. Heidlauf NAME AND TITLE (PLEASE PRINT)

# Terms and Conditions of Agent Special Waste Service Agreement

- The Agreement. This agreement of the parties ("Agreement") for the disposal of Special Waste shall consist of this Agreement, riders to the Agreement (if any) and any Application, permit and approval that may be applicable to such Waste
- Waste Accepted at Eaglity. Agont represents, warrants and covenants that the Waste delivered to Company at its Facility hereundor will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, retaining on the substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial taws or regulations. Any Waste which does not moet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agont shall not martlers refating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local taws, regulations, rules and orders regarding the same. The word "Facility" shall mean any landfill, transfer station or other location used to transfer, process or otherwise dispose of such Waste. otherwise dispose of such Waste
- Special Waste Agent represents, warrants and coveraints that the Waste delivered to Company hereunder (i) will not contain any Special Waste that its not specifically described on any Application which is attached hereto and which is subsequently approved by the Company, (ii) will meet the meterial description as set forth in any Application and otherwide in all significant respects and (iii) will not contain tracceptable Waste. The parties may incorporate additional Special Waste as part of this Agreement if prior to delivery of such Waste to Company, Agent has provided an Application for such Waste and Company is approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to any and at Waste handled or disposed of by Company shall at all times remain with Generator and Agent.
- Rights of Refusel/Reaction. The Agent shall inspect all Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of Waste(s) delivered to its Facility including if the Company believes the Agent has breached (or is breaching) its representations, warrantips, coverants or agreements hereunder, or any approache federal state or local laws regulations, rules or orders, even if only a portion of such Waste load is unacceptable. The Company shall have the hight to hispot, all vehicles of Waste haulers, including the Agent's vehicles, in order to determine the property of the prope
- Limited Licease to Enter. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall normalize the immediate vicinity of their visibile. After off-loading the Waste, Agent's personnel shall promptly leave the Facility. Under no croumstances shall agent or its personnel emgoge in any scavenging of Waste or other materials at the Facility. The Company reserves the right to make end enforce reasonation rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of Waste and any other materials at the Facility premises, agent agrees to conform to such rules and reputations as they may be established and amended from time to time. Company may refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of electric the time. Company refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of electric the time. Once the company is under the influence of electric the company and the proposal and of the above after the acceptability of Company.
- Charges and Payment. Payment shall be made by Agent within sixty (60) days after recept of involce from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by line. Agent shall be label for all taxes, foos, or other charges imposed upon the disposal of the Waste by foceral, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon sixty (EO) days written notice to Agent. Agent nereby agrees that the Company's right to receive payments under this Agreement is unaced bonal and is not conditioned upon Agent first receiving payment from Generator or any other party.
- 11. Termination Agent's obligations, representations, warrantees and covenants regarding the Wasto doll-orded and all Indominities shall survive termination of this Agreement. Should Agent materially default in any of its obligations hereunder, then Company may immediately terminate this Agreement and Agent shall be liable for all costs and damages incurred by the Company.
- Driver's Knowledge and Authority. Agent recresions, warrants and coverants that its drivers who deliver Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveres of hazardous materials or substances, radioantive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveres of Special Waste to the Facility of the definitions of Hazardous Waste and Hazardous Substances' as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein and of the terms of this locals law, rules and regulations and "Special Waste" as provided herein and of the terms of this locals are clear Company's Facility. license to enter Company's Facility.
- Indemnification. Agent shall indemnify, defend and hold harmless the Company and its subsidianes, afficials and parent corporations, as applicable, and their respective officers, directors, lenders, employees, subcontractors and agents from and against eny and all claims, suits, losses, lenders, sentesaments, damages, fines, costs and expenses, including reasonable altorneys fees acting under federal, state or local laws regulations or ordinances, or relating to the content of the Waste, or arising out of the contents content contents content contents content contents content contents content contents content contents content contents con survive the termination of this Agreement
- Insurance. Agont shall maintein in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages
Worker's Compensation
General Liability Automobile Liability

Minimum Amounts of Insurance Statutory \$500,000 combined single limit \$500,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Fac'ity is located. Prior to Agent being allowed on Facility premises, Agent shall provide the Company with contricates of insurance or other satisfactory evidence that such insurance has been procured and is in force. Said policies shall not thereafter be canceled, be permitted to expire or be changed without thiny (30) days advance written notice to the Company. Agent warrants that it will secure the above minimum amounts of insurance from any transportation of the Waste to the Facility.

- Failure to Perform. Norther party hareto shall be liable for its failure to perform hereunder due to discounstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other-labor disputes, rots, protests, civil disturbances or sabotage, changas in law, fires, floods, compliance with government requests, explosions, accidents, weather, tack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the proceding sentence, including, but not limited, to whother any tederal, state or local court or governmental authority lakes any action which would (f) close or restrict operations at the Facility. (I) limit the quality or prohibit had sposal of Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without principles and whoult any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required herbundor to settle any tabor dispute against its own best judgment.
- Other Termination. The occurrence of any of the following events shall also constitute an event of default by the Agent and shall give the Company the right to immediately terminate this Agreement.
  - (A) A public of or reorganization or bankruptcy fled by or against the Agent
  - (B) Failure by Agent to pay any amounts due to Company
  - (C) Any breach by Agent of any of its obligations pursuant to the Agreement.

Agent shall be leadle for and shall indertrify, defend and hold harmless Company from any losses, claims expenses or damages indurred by the Company as a result of termination betweendet.

- <u>Assignment</u>. Agent may not assign, transfer or otherwise vest in any other Company, entally or person, in whole or in part, any of 1s rights or obligations under the Agreement without the prior written consent of the Company, provided. however, that the Company may without any such prior written consent assign its rights and/or obligations under the Agreement to a subsidiary or afficiate corporation.
- Right of Disposal. This Agreement does not grant any rights to dispose of Waste other than in accordance herewith. The Company reserves the right to immediately terminate access to the Facility by Agent and Agent's personnel in the event of breach or violation by Agent of any of the terms of this Agreement, the Company's operating rules or payment policies or any applicable taws or regulations.
- Continuing Compliance. The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the Waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but no limited to the following. (i) providing new, updated Waste profiles on the Waste(s) offered of spossil or (iii) providing appropriate confidence in that the Waste being offered for disposal is accurately reflected by the appropriate Application or, (iii) resample the Waste at Agent so exposse if reasonable cause exists at to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the Waste a Agent's exposse if reasonable cause exists as to its acceptability under the terms of this Agreement or (iv) all of the above.

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No warver of a proof of any of the obligations contained in the Agreement shall be construed to be a warver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- No modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D). Agent shall treat as confidential and not disclose to others during or subsequent to the terms of that Agent shall treat as considerable and not disclose to others during or subsequent to the terms of that Agreement, except as is necessary to perform this Agreement, or to compry with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement without in each instance securing the prior written consent of the other Company.
- (E) If any term, prizase, obligation or provision of this Agreement shall be neid to be invand, degal or unonforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties and shall be binding upon all parses hereto, their successors, hors, representatives and sasigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no
- (G) Agent represents, warrants and covenants that it is end during the term of this Agreement is remain, in compliance with and will perform its obligations pursuant to ell applicable text and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (ii) It is the understanding and agreement of the parties that the Company is an independent contractor and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the porties that Agent is an authorized representative of Generator.
- Notices: All notices herein provided for shall be considered as having been given upon being plead in the mail, certified postage prepaid addressed to the Company of Agent at the address herein set forth in the Agraement of to such other paddress as may be given to the other party in writing.
- 22 Imudated Damanes in the event that this Agreement is terminated by the Agent in a marrier not a accordance, with paragraph 4 hereof, or terminated due to a breach of this Agreement by the Agent, this Agent shall be? Its Huidadod demages, and not as a penalty, the greater of an amount equal to ax (6 months' service charges of the Agent's most recent months' charge multiplied by six. The Agent shall be given credit for any advance payrithmet made hereunder, however, in computing the amount lowed as inquidated damages hereunder. The Agent asknowledges that this liquidated damages clause is reasonable and its applicable to recover demages related to the investment in equipment, development or landfills and triring of employees undertaken by the Company to service 44 customers including the Agent This liquidated damages clause in no way relivers the Agent from its obligations and liability for other cos or damages as set forth elsewhere in this Agreement.

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BROKER:	COMPANY:	6791	
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# AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 3825 13 12575 Agent Billing Information Republic Waste Location (Company) **ENVIRON International Corp** Name: APEX Landfill 500 Fourth St Address: 13550 US Highway 93 North Las Vegas, NV 89165 City: Henderson 702-599-5907 State: NV Zip: 89015 Phone: 312 927 1146 Fax: Contact: Nita Shinn County and State Project: NERT of Origin: Clark, NV Generator Address: 510 Fourth St, Henderson, NV 89015 Additional Information: Contact: Andrew Steinberg 312 498 2800 Special Waste Service. Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Agent, and which is acceptable to the Company as herein provided. 2. Acceptable Waste. Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste"). 3. (A) Rates for Disposal: Waste Disposal Method Disposal Rate: Fees / Taxes / Misc. <u>Transportation</u> Asbestos Impacted Soil Landfill \$23.00 Per Ton 2 3% SWMA Additional Information: \*\*\*\*Profile good through May 7, 2014\*\*\* EAV: 50 Cubic Yards Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations. Cannot Exceed Daily Volume of Waived Without Prior Approval of Company. Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein. 1)N/A 4. <u>Term of Agreement</u>. This Agreement is effective for 10 months, commencing 7/31/2013 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days prior written notice. THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE. AGENT REPUBLIC SERVICES/COMPANY SIGNATURE (AUTHORIZED REPRESENTATIVE) SIGNATURE (AUTHORIZED REPRESENTATIVE) David T. Heidlauf IMM NAME AND TITLE (PLEASE PRINT) NAME AND TITLE (PLEASE PRINT) DATE

## Terms and Conditions of Agent Special Waste Service Agreement

- 5 <u>The Agreement</u>. This agreement of the parties ("Agreement") for the disposal of Special Waste shall consist of this Agreement, riders to the Agreement (if any) and any Application, permit and approval that may be applicable to such Waste.
- Waste Accepted at Facility. Agont represents, warrants and covernants that the Waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, and so acceptable quantity of hazardous materials or substances, as a defined by applicable federal, state, local or provincial laws or regulations. Any Waste which does not meet these requirements shall hereinster be referred to as "Unacceptable Waste". The Agont shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean any landfill, transfer stotion or other location used to transfer, process or otherwise dispose of such Waste.
- 7. Special Waste: Agent represents, warrants and covenants that the Waste delivered to Company hereunder (i) will not contain any Special Waste that is not specifically described on any Application which is attached herete and which is subsequently approved by the Company, of will meet the material description as set forth in any Application and otherwise in all significant respects and (iii) will not contain Unacceptable Waste. The parties may incorporate additional Special Waste as part of this Agreement if prior to delivery of such Waste to Company, Agent has provided an Application for such Waste and Company has approved disposal of such Waste within the limitations and conductors contained in Company's written notice of approval of Special Waste. Tills to any and all Waste handled or disposed of by Company shall at all times remain with Generator and Agent.
- 8 Rights of Refusal/Reaction. The Agent shall inspect all Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of Waste(s) delivered to its Facility including if the Company believes the Agent has breached (or is breaching) its representations, warrantes, coverants or agreements hereunder, or any applicable federal, state or local taws, regulations, rules or orders, even if only a portion of such Waste load is unacceptable. The Company shall have the right to inspect all vehicles of Waste haulers, including the Agents vehicles, in order to determine the Waste is Acceptable Waste or Unacceptable Waste pursuant to this Agreement and all applicable federal, state and local laws, rules and regulations. The Company's exercise, or tailure to exercise, its rights hereunder shall not operate to retieve the Agent of its responsibilities or liability under this Agreement. The Agent shall be responsible for, and bear all reasonable expenses and damages incurred by the Company, as a result of the Unacceptable Waste and in the relocating and removal of Unacceptable Waste disposed in the Facility. The Company, may also, in its sole discretion, require the Agent to promptly remove the Unacceptable Waste.
- Limited License to Enter. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Accoptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Waste, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of Waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rutes and regulations concerning the operation of the Facility, and the conduct of the drivers and others on the Facility premises, quantities and sources of Waste, and any other matters necessary or desirable for the safe, legar and efficient operation of the Facility including, but not limited to, speed limits on thair loads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agents to ecoform to such rutes and regulations as they may be satablished and amended from time to time. Company nearly refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company beferves is under the influence of elochol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
- 10. Charges and Payment. Payment shall be made by Agent within sixty (60) days after recept of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Waste by federal, state, local or provincial taxes and regulations. Company, from time to time, may modify its rates upon sixty (60) days written notice to Agent. Agent horeby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.
- 11. <u>Termination</u> Agent's obligations, representations, warranties and covenants regarding the Waste delivered and all Indomnities shall survive termination of this Agreement. Should Agent materially default in any of its obligations hereunder, then Company may immediately terminate this Agreement and Agent shall be liable for all costs and damages incurred by the Company.
- 12 <u>Driver's Knowledge and Authority.</u> Agent represents, werrants and covenants that its drivers who deliver Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliver'es of hazardous materials or substances, or lock waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of 'Hazardous Waste and Hazardous Substances' as provided by applicable federal, state and local law, rules and regulations and 'Special Waste' as provided herein, and of the terms of this license to enter Company's Facility.
- 13. <u>Indemnification</u>. Agent shall indemnify, defend and hold harmless the Company and is subsidianes, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, Labilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees artising under federal, state or local laws, regulations or ordinances, or relating to the content of the Waste, or eristing out of or in connection with any breach of this Agreement or arising out of the negligent collection, transportation and disposal of Waste by Agent or Agent employees, egents, subcontractors or representatives thereof. Agent shall also be responsible for increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of the Company as to the content of the Waste following discovery of potentially Unacceptable Waste. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
- 14. insurance. Agent shall maintain in full force and offect throughout the term of this Agreement the following types of insurance in at least the amounts specified below.

Coverages
Worker's Compensation
General Liability
Automobile Liability

Minimum Amounts of Insurance Statutory \$500,000 combined single limit \$500,000 combined single Finit

- All insurance will be by insurers authorized to do business in the state in which the Factity is located. Prior to Agent being allowed on Facility premises, Agent shall provide the Company with confricates of insurance or other satisfactory evidence that such insurance has been procured and is in force. Said policies shall not thereafter be canceled, be permitted to expire, or be changed without thirty (30) days advance written notice to the Company. Agent warrants that it will secure the above minimum amounts of insurance from any transportation of the Waste to the Facility.
- 5. <u>Failure to Perform.</u> Neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its feutt and beyond its reasonable control, including, but not writed to, strikes or other labor disputes, nots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the proceeding sentence, including, but not limited, to whether any foderal, state or local court or governmental authority takes any ection which would (i) close or restrict operations at the Facility, (3) limit the quantity or prohibit the disposal of Waste at the Facility, or (a) limit the ability of or prohibit Agent from delivering Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.
- Other Termination. The occurrence of any of the following events shell also constitute an event of default by the Agent and shall give the Company the right to immediately terminate this Agreement.
  - (A) A patition for reorganization or bankruptcy filed by or against the Agent.
  - (8) Failure by Agent to pay any amounts due to Company
  - (C) Any breach by Agent of any of its obligations pursuant to the Agreement.

Agent shall be liable for and shall indomnify, defend and hold harmless Company from any losses, claims expenses or damages incurred by the Company as a result of termination hereunder.

- 17. <u>Assignment</u> Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided in hawever, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiriate corporation.
- 18 Right of Disposal. This Agreement does not grant any rights to dispose of Waste other than in accordance herewith. The Company reserves the right to immediately terminate access to the Facility by Agent and Agent's personnel in the event of breach or violation by Agent of any of the terms of this Agreement, the Company's operating rules or payment policies or any applicable taws or regulations.
- 19. Continuing Compliance. The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the accorptability of the Waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agents continuing compliance with the terms of the Agreement including but no limited to the following: (i) providing new, updated Waste profiles on the Waste(s) offered for disposal or (ii) providing appropriate contification that the Waste being offered for disposal is accurately reflected by the appropriate Application or, (iii) 7e-asimple the Waste at Agent's expense if reasonable cause exists at to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the Waste et Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or (iv) allow the terms of this Agreement or (iv) all of the above.
- 20. Misce'laneous
  - (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
  - (8) No waiver of a breach of any of the obligations contained in the Agroement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of that Agreement.
  - (C) No modification, release discharge of waver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by ell platters to this Agreement.
  - (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable just or regulation any information, encourage any representation and regulation any information, encourage or date; regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement without in each instance securing the prior written consent of the other Company.
  - (E) If any term, phrase, obligation or provision of this Agreement shall be neld to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in offect and be construed without regard to such term, phrase, obligation or provision.
  - (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, the successors, hairs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
  - (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, wif remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
  - (H) It is the understanding and agreement of the parties that the Company is an independent contractor and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.
- 21. Notices. All notices herein provided for shall be considered as having been given upon being piaced in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.
- 22 Logidated Damages. In the event that this Agreement is terminated by the Agent in a marrier not if accordance with paragraph 4 hereof, or terminated due to a breach of this Agreement by the Agent, this Agent shall pay, the Logidated damages, end not as a penalty, the greater of an amount equal to ak (6 months) service charges of the Agent's most recent monthly charge multiplied by six (6). The Agent shall be given credit for any edvance payments, made hereunder, however, in computing the amount owed as legislated damages hereunder. The Agent acknowledges that this figuidated damages clause in reasonable and is applicable to recover damages related to the investment in equipment, development or landfills and himng of employees undertaken by the Company to service the customers including the Agent The figuidated damages clause in no way related to the figure of the contraction of the Agent from its obligations and Ephility for other cost of damages as set forth elsewhere in this Agreement.

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## Appendix F

Waste Manifests and Truck Ticket Summary



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I. GENERATOR (General	tor cor	mplete	es la-r)						
a. Generator's US EPA ID Number				Manifest Docu	ment Number		c. Page	e 1 of	
d. Generator's Name and Location:	_				e Generator's Mailine	A al al			
Nevada Environmental Re- 510 Fourth Street	sporise	Trust d			e. Generator's Mailing /				
f. Phone: Henderson, Nevada 200	IFF W					ter or Ste	(550)		
If owner of the generating facility differs	from the	genera	etor prov	ide:	g. Phone: Chicago,	L 60606			
h. Owner's Name:		9011010	itor, prov	106.				THE REAL PROPERTY.	
j. Waste Profile #	I k Eu	- D-1	-		i. Owner's Phone No.:	3	12 499 25	00	
7	K. EX	p. Date		I. Waste Ship Description	ping Name and	m. Co No.	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
	-			Non Hazar	dous, Flon Regulated				110 701
3825 13 12625	36	917201	4			1	0.7	20	4
	-								
				1	PHURUSES.				
GENERATOR'S CERTIFICATION									
GENERATOR'S CERTIFICATION: I here state law, has been properly described, c waste is a treatment residue of a previous	eby certification	fy that to and pa	he above ckaged,	named mater	al is not a hazardous was	ste as define	d by 40 CF	R 261 or any a	pplicable
waste is a treatment residue of a previous been treated in accordance with the requ	sly restric	cted ha	zardous	waste subject t	o the Land Disposal Rest	rictions. I ce	g to applic	able regulations	; AND, if this
been treated in accordance with the requ	rements	of 40 C	CFR 268	and is no long	er a hazardous waste as	defined by 4	0 CFR 261		raste has
- 11 1 - 5 - 2/11/2A							00	17 1/2	
p. Generator Authorized Agent Name (Pri			q. Signa	ature			r. Date	V Walter III	
II. TRANSPORTER (Gene a. Transporter's Name and Address:	rator c	omple	tes lla-	b and Trans	sporter completes lic	-01	i. Date		
					portor completes lic				
1660 Flippin Street									
Las Vegas Nevada 59115	7102	645-5							
b. Phone:									
				1					
c. Driver Name (Print)		d Sic	gnature						
III. DESTINATION (Generat	or com	nlete	Illa-c a	nd Doctinati	on Oite and I to the	e. Date			
a. Disposal Facility and Site Address:	01 00111	picto	c l	JS EPA Number	on Site completes III	ld-g)			
13330 FLA HIGHBAY 84 MORE	n		0.0	JS EFA NUMB	er d. Discrepancy Indica	ation Space:			
Las Vegas Nevada 60 165									
b.									
I hereby certify that the above named mate	erial has	been a	ccepted a	and to the hest	of my knowledge the few				
				- 10 110 1000	or my knowledge the fore	going is true	e and accu	irate.	
e. Name of Authorized Agent (Print)		f C:-							
	omplet	f. Sign	ature	0		g. Date			
IV. ASBESTOS (Generator of a. Operator's Name and Address:	omplet	es IVa	a-r and						ELEVITE
o name and Address:				C.	Responsible Agency Nar	me and Addi	ress:		
b. Phone:				1-1-1					
e. Special Handling Instructions and Addition	nal Info	moti		d.	Phone:	S. S. Walleton			
June 2010 10 and Addition	alai IIIIOI	mation	•					W. D. C. B.	
E Calabia Communication									FIRE I
Friable Non-Friable Both		% F	riable	%	Non-Friable				
OPERATOR'S CERTIFICATION: I hereby cand are classified, packaged, marked and lanational governmental regulations.	abeled/p	at the lacarde	contents d, and ar	of this consign e in all respect	ment are fully and accura is in proper condition for t	tely describe ransport acc	ed above bording to a	by the proper shipplicable intern	ipping name, ational and
						-			
Operator's Name and Title (Print)		h. Sign	ature			I Det			
Operator refers to the company which owned	s, leases	, opera	tes, contr	rols, or supervi	ses the facility being dem	olished or ro	novated -	is the description	
renovation operation or both						Charled Of 16	novated, o	i trie demolition	or



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a. Generator's US EPA ID Number	or completes						
		b. Manifest Doc	ument Number		c. Page	e 1 of	
d. Generator's Name and Location:	I Land		e. Generator's Mailing A	Address:			
Flevada Environmental Resp 510 Fourth Street f. Phone: Handsreet Flevada Portus				Hertir Ste			
If owner of the generating facility differs from	om the generator	, provide:	gri nono.	60606			
h. Owner's Name:			i. Owner's Phone No.:				
j. Waste Profile #	k. Exp. Date	I. Waste Sh	ipping Name and		ntainers	n. Total	1 11 11
		Description		No.	Туре	Quantity	o. Unit Wt/Vol
		Hon Hazz	entous, Hon Regulated				
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						2.0	
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waste is a treatment residue of a previously been treated in accordance with the require	restricted hazar	dous waste subjec	t to the Land Disposal Rest	rictions. I cer	g to applic	able regulations; arrant that the wa	AND, if this
been treated in accordance with the require	Harris of 40 CFF	208 and is no ion	ger a hazardous waste as o	defined by 40	0 CFR 261	·	aste nas
			OT IVERI			7	7 - 1
p. Generator Authorized Agent Name (Print	) q.	Signature			r. Date		
II. TRANSPORTER (General a. Transporter's Name and Address:	itor completes	s Ila-b and Trai	nsporter completes lic	-e)			
Prendon.					T REAL		
4560 Floor Street							
b. Phone: Las Vegas Nevada 89115	702 645 584						
670	1	- eseleth		1127	1. 1	-5	
c. Driver Name (Print)	d. Signa	ture		10/	2/1	>	
III. DESTINATION (Generator	complete Illa	a-c and Destina	tion Site completes III	e. Date			
a. Disposal Facility and Site Address:		c. US EPA Num	ber d. Discrepancy Indica	ation Space			
DESCRIPTION OF THE PROPERTY OF THE UNITED			and the second	чион орасе.			
Las Vegas Ne ada 80 165							
b.  I hereby certify that the above named material	al bas bass						
I hereby certify that the above named materia	arrias peen acce	pled and to the be	st of my knowledge the fore	egoing is true	and accu	rate.	
e. Name of Authorized Agent (Print)				1100 1			
IV. ASBESTOS (Generator co	f. Signatu	ire		g. Date			
IV. ASBESTOS (Generator cola. Operator's Name and Address:	inpletes IVa-f						
and Address.			c. Responsible Agency Nar	me and Addr	ess:		
b. Phone:		A STATE OF	d Phone:				
e. Special Handling Instructions and Additional	al Information:		d. Phone:				
f. Friable Non-Friable Both	% Friat	ble	% Non-Friable				
OPERATOR'S CERTIFICATION: I hereby detail and are classified, packaged, marked and lab national governmental regulations.	clare that the cor eled/placarded, a			itely describe	ed above bording to a	by the proper ship applicable interna	pping name, tional and
		HER THE					
g. Operator's Name and Title (Print)	h. Signatu	re		1.0.1			
*Operator refers to the company which owns, renovation operation or both	leases operates	, controls, or super	vises the facility being demo	olished or re	novated o	r the dome!!!	
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a. Generator's US EPA ID Number		b. Manifest Docu	ument Number		c. Pag	e 1 of	
d. Generator's Name and Location:			Lo Consentado Maria				
			e. Generator's Mailin	g Address:			
Nevada Environmental Resp	ponse Trust the						
f. Phone: 5 10 Fourth Street			35 F W	woker Dr. Sta			
If owner of the generating facility differs fr	rom the generator	provide:		, IL GUDUO	10.81		
h. Owner's Name:	- I - A processor		Section of the second section of the second section of the section of the second section of the	, it books			
j. Waste Profile #	k. Exp. Date	T. W.	i. Owner's Phone No.				
	k. Exp. Date	I. Waste Ship Description	oping Name and	m. Co	ontainers	n. Total	o. Ur
		Description		No.	Туре	Quantity	Wt/V
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0.00	17772010	ACM/Soil			DT	70	4
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state law, has been properly described, cla waste is a treatment residue of a previously seen treated in accordance with the require	assified and packa	ged, and is in prope	rial is not a hazardous w	aste as define	ed by 40 CI	R 261 or any ar	oplicable
vaste is a treatment residue of a previously seen treated in accordance with the require	y restricted hazard	dous waste subject	to the Land Disposal Re	ation according	ng to applic	able regulations;	AND, if
een treated in accordance with the require	ements of 40 CFR	268 and is no long	er a hazardous waste as	s defined by 4	O CFR 261	arrant that the w	aste has
- OLEMANCE	JIV acting as author	zed agent for the NE	RT	1916-2716-0-1	0 0111201		23
Generator Authorized Agent Name (Print	t) a	Signature			F38.1		
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a. Generator's US EPA ID Number		b. i	Manifest Doci	ument Number		c. Pag	e 1 of	
d. Generator's Name and Location:						ug	0 1 01	
				e. Generator's Mailir	ng Address:		3 3 70 10 10	
Nevada Ereironnentai Res 5-10 Fourth Street	shouse Inist (	MEP T)						
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If owner of the generating facility differs	from the genera	ator provi	ide:	g. Phone:	- II sosos			
h. Owner's Name:		ioi, piovi	uc.		CI 100 ENGINEE			
j. Waste Profile #	10-			i. Owner's Phone No				
	k. Exp. Date		I. Waste Ship	oping Name and		ontainers	n. Total	1
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ate law, has been properly described, classes is a treatment residue of a previous een treated in accordance with the requirements.	sly restricted box	ckaged, a	ind is in prope	er condition for transpor	ation according	g to applied	R 261 or any ap	plicable
een treated in accordance with the requir	rements of 40 C	FR 268 a	aste subject	to the Land Disposal Re	estrictions. I ce	rtify and wa	arrant that the w	AND, if t
een treated in accordance with the requir	Off acting as aut		and is no long	er a nazardous waste a	s defined by 4	0 CFR 261		aste Has
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a. Generator's US EPA ID Number	or completes I	a-r) b. Manifest Doc	Iment Number				
d. Generator's Name and Location:	1,79,63	o. Marinest Doc			c. Page	e 1 of	
			e. Generator's N	Mailing Address:			
Nevada Environmental Resp	onse Trust INER						
f. Phone: 510 Fourth Street			g. Phone:	E. Wacker Dr. Ste	1550		
If owner of the generating facility differs from	om the generator,	provide:		cago, IL 60606			
h. Owner's Name: j. Waste Profile #	in the second		i. Owner's Phone	e No.:			
j. Waste Profile #	k. Exp. Date	I. Waste Shi Description	pping Name and	m. Co	ntainers	n. Total	o. Unit
		Description		No.	Туре	Quantity	Wt/Vol
3825.13.12575	1/1/2010	ACMSoil			DE	201	
						- 30	7
GENERATOR'S CERTIFICATION: I hereb state law, has been properly described, class	y certify that the a	above named mate	rial is not a hazarde	ous waste as define	ed by 40 CF	R 261 or any ar	plicable
Waste is a treatment residue of a proviously	t managed at a d t	o - i - ii - ii - prop	or condition for trai	isportation according	ig to applic	able regulations.	AND, if this
been treated in accordance with the require	ments of 40 CFR	268 and is no lon	ger a hazardous wa	iste as defined by 4	of CFR 261	arrant that the wa	aste has
of ENVIRO	It action as authori	zed agent for the his			V 3-50 7	16 1	
p. Generator Authorized Agent Name (Print	) q. :	Signature	The second	1	r. Date	THE REAL	
II. TRANSPORTER (General a. Transporter's Name and Address:	tor completes	lla-b and Tran	sporter comple	tes IIc-e)	1. Date		-
are really did Address.					No.		
Werdon	Chicago sales es						
b. Phone: 1660 FlippinStreet Las Vegas	WV / UZ 405 5E	48					
670	1	Sarge			1-1		
c. Driver Name (Print)	d. Signati	ure		10	121	13	
III. DESTINATION (Generator	complete Illa-	-c and Destina	tion Site comple	e. Date			
and Site Address:		c. US EPA Num	per d. Discrepand	cy Indication Space			
Apex Regional Landfill				-yauo., opuoc			
b. 13550 U.S. Highway 93 North,	LV HV 89165						
I hereby certify that the above named materi		nted and to the he	t of and land				
	20011 00001	oted and to the be	st of my knowledge	the foregoing is tru	e and accu	irate.	
e. Name of Authorized Agent (Print)	f. Signatur	70					
IV. ASBESTOS (Generator co	mpletes IVa-f	and Operator	omplete IV (- :)	g. Date			
a. Operator's Name and Address:	inproteo iva i						
Walker Specialty Construction I			c. Responsible Age				
6428 Windy Road				em Nevada Healt	h District		
o. Phone:	700 040 0500		I. Phone:	0x 3902			
e. Special Handling Instructions and Additiona	al Information:		Lasv	egus, rav	700	59 0660	
□ Frights □ No. Fig. 1	CONTRACTO	ALL SELECTION	TO THE REAL PROPERTY.				
Friable Non-Friable Both	% Friab	1-1 (1)	% Non-Friable				
DPERATOR'S CERTIFICATION: I hereby de- and are classified, packaged, marked and lab national governmental regulations.	eled/placarded, a	nd are in all respe	nment are fully and cts in proper condit	accurately describ	ed above b	by the proper ship	oping name.
9						7/10	- Juliana
. Operator's Name and Title (Print)	h. Signatur	'e					
Operator refers to the company which owns, enovation operation or both	leases, operates,	controls, or super	vises the facility hei	i. Date	enovated a	or the demalist	
movation operation or both			, , , , , ,	J - J - I - I - I - I - I - I - I - I -	novateu, o	are demolition	OI .



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i. GENERATOR (Gene	erator completes la	-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location:		-	a Congretor's Mailing	ad decrees			
Nevada Environmental F \$10 Fourth Street	desponse Inust d'ERT		e. Generator's Mailing A				
f. Phone: Henderson, htt 890				ker Dr. Ste	<b>并是犯</b>		
If owner of the generating facility diffe			g. Phone: Chicago, I	L 000005			
h. Owner's Name:	3	Novido.			10 the es	nis .	
j. Waste Profile #	k. Exp. Date	I Waste Chi-	i. Owner's Phone No.:		12-408-28	600	
	M. Lap. Date	Description	ping Name and	M. Co	ntainers	n. Total	o. Unit
				140.	Туре	Quantity	Wt/Vol
¥125 13 12575	1/1/2010	ACM Soil		- 1	DT	20 Y	
							- 10
GENERATOR'S CERTIFICATION						CONTRACT TO SERVICE	
GENERATOR'S CERTIFICATION: It state law, has been properly described	nereby certify that the ab	ove named mater	ial is not a hazardous was	te as define	d by 40 CF	R 261 or any app	olicable
waste is a treatment residue of a previ	iously rostricted beared	ou, and is in prope	condition for transportati	ion accordin	g to applic	able regulations:	AND, if this
been treated in accordance with the re	equirements of 40 CFR 2	268 and is no long	er a hazardous waste as o	defined by 4	0 CFR 261	arrant that the wa	ste has
1/00	The state of the s	ed agent for the Affi	Harmon		130 V	D 7 2003	
p. Generator Authorized Agent Name		ignature			r. Date		
II. TRANSPORTER (Ge	nerator completes	lla-b and Trans	sporter completes lic	-0)	1. Date		_
a. Transporter's Name and Address:			-p-ron completes no	0)	1		
4000 Flippin Street, Las V	anna hii 100 ann an a						
b. Phone:							
b. Filone.	100						
JUNA MIX	no	Wall.		11	110	12	
c. Driver Name (Print)	d. Signatur	re		e. Date	110	4-)	
III. DESTINATION (General Disposal Facility and Site Address)	rator complete Illa-c	and Destinat	ion Site completes III	ld-a)			
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13550 U.S. Highway 93 N	om, LV 1912 89 165						
	notorial has been						
hereby certify that the above named m	laterial rias been accept	ed and to the bes	t of my knowledge the fore	egoing is tru	e and accu	ırate.	
Name of Authoria							THE HE
v. ASBESTOS (Generato	f. Signature			g. Date			
(Contrato	ir completes IVa-f a	ind Operator of	omplete IVg-i)				
a. Operator's Name and Address:	hinn ten	C	. Responsible Agency Nar	me and Add	ress:		
6428 Windy Road			Southern Ne	vada Heall	h District		
. Phone: Las Vegas, MV 69165	702-243-2500		PO Box 3902				
. Special Handling Instructions and Add		d	. Phone: Las Vegas, (	Pr Pr	402	759-0660	
	antional information,						
☐ Friable ☐ Non-Friable ☐ Bot	th o/ Fire						
PERATOR'S CERTIFICATION: I heret	by declare that the sente		Non-Friable				
nd are classified, packaged, marked ar ational governmental regulations.	nd labeled/placarded, an	d are in all respec	ets in proper condition for t	itely describ	ed above to	by the proper ship applicable internat	ping name, tional and
Operator's Name and Title (Print)	h. Signature			i Dota		and the best	
Operator refers to the company which o	wns, leases, operates, o	controls, or superv	ises the facility being dem	olished or re	enovated of	or the demolition	
novation operation or both			,,			are demonition o	1



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a. Generator's US EPA ID Number	rator compl	etes la							
		500	b. Manifest Do	cum	ent Number		c. Page	e 1 of	
d. Generator's Name and Location:				-	e. Generator's Mailing A	ddraes:			
Pleyada Environmental P	esponse Ings	I MER			The state of the s	duiess.			
\$10.Fourth Street					35 E. Wash	HE FIN CL			
f. Phone: Henderson, NV 800	15 3124	09/290	0		g. Phone: Chicago, II	ADADA	1000		
If owner of the generating facility differ	s from the gen	nerator, p	provide:		Self-transport (Control of Control  2.3750.IN252				
h. Owner's Name:					i. Owner's Phone No.:		12-493-26	999	
j. Waste Profile #	k. Exp. D	ate	I. Waste St	hippi	ing Name and		ntainers		
			Description	1		No.	Type	n. Total Quantity	o. Unit Wt/Vol
	the i								110 001
3825 13 12575	1/150	10	ACM Sei				part again.		
						1	DT	50 A	
GENERATOR'S CERTIFICATION									
GENERATOR'S CERTIFICATION: I he state law, has been properly described	ereby certify the	at the at	bove named mat	teria	l is not a hazardous wast	e as define	d by 40 CI	FR 261 or any an	plicable
Waste is a freatment reciding of a provide	and a second of the second	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa		Po,	ochamon for mansportatio	accordin	id to applic	able regulations.	AND, if this
been treated in accordance with the rec	uirements of 4	10 CFR	268 and is no los	naer	a hazardous waste as d	ctions. I ce	ertify and w	arrant that the wa	ste has
And Charast of Ellis	HROM acting as	authoriz	ed agent for the fi	ERT	The state of the s	elified by 4	U CFR 261	l.	
p. Generator Authorized Agent Name (I	Print)	7 0	Signature				Charles of	11/ 1/	3
II. TRANSPORTER (Ger	erator com	plotoo	lla h and T				r. Date		
II. TRANSPORTER (Ger a. Transporter's Name and Address:	icrator com	pietes	iia-b and Tra	insp	porter completes lic-	e)			
Werdoo									
4660 FlippinStreet, Las Ve	das NV 702-4	65-584							
b. Phone:									
TWO		47	3 00 O			F 1	10	_	
c. Driver Name (Print)		111	KURY	N		11	119	13	
	d.	Signatu	re			e. Date			
a. Disposal Facility and Site Address:	ator comple	te IIIa-	c and Destina	atio	n Site completes Illo	d-g)			
Apex Negronal Landila			c. US EPA Nun	nber	d. Discrepancy Indica	tion Space			
19550 U.S. Highway 93 No	eth 13/88/con	166							
b.	1111, L 2 1919 294	103							
I hereby certify that the above named ma	aterial has been	n accord	tod and to the						
I hereby certify that the above named ma	atorial rias beer	пассері	ted and to the be	est o	of my knowledge the foreg	going is tru	e and accu	ırate.	
	Maria Caraca							To the second	
e. Name of Authorized Agent (Print)  IV. ASBESTOS (Generator	f. S	Signature		V.		g. Date	The state of		
Transfer (Octional)	completes	IVa-f a	and Operator	cor	mplete IVg-i)				
a. Operator's Name and Address:	on Inc.				Responsible Agency Nam	e and Add			
5428 Windy Road					PO 86x 3902	o and Add	ess.		
Las Vegas, NV 99 (65	702-249	2500			Las Vegas, N		700	759-0660	
b. Phone:				d. P	Phone:			33-0000	
e. Special Handling Instructions and Addi	tional Informati	ion:							
f. Friable Non-Friable Both	9	% Friable	Э	% N	lon-Friable				
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and pational governmental regulations.						alv describ	ed about 1	ov the a	
and are classified, packaged, marked and national governmental regulations.	labeled/placar	rded, an	d are in all respe	ects	in proper condition for tra	ansport acc	cording to a	y the proper ship	ping name.
		-						- Pandable internat	ional and
2 Operated All					Section 1				
g. Operator's Name and Title (Print)	h. S	ignature				Date			
*Operator refers to the company which ow renovation operation or both	ns, leases, ope	erates, c	controls, or super	rvise	es the facility being demo	lished or re	novated o	r the demolition of	r
- MI	-							J. J. GOITIOIILIOII O	



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a. Generator's US EPA ID Number	erator completes la						
		b. Manifest Docu	ment Number	His and	c. Page	e 1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:			
Mevada Environmental F	Response Trust (MERT						
510 Fourth Stree			35 F W.	eker Dr Sle			
If owner of the generating facility diffe	ers from the generator of	) Provide:		II 60606	1-9-0-1		
h. Owner's Name:	or from the generator, p	novide:				translation.	
j. Waste Profile #	I Fran Data		i. Owner's Phone No.:		12-490-28	00	
7 (March 1949)	k. Exp. Date	I. Waste Ship Description	ping Name and		ntainers	n. Total	o. Unit
				No.	Туре	Quantity	Wt/Vol
	4 Hould						
3925 13 12575	17172010	ACMISoil		1	EXT	20	
					I SI	4724	
		THE PARTY					
GENERATOR'S CERTIFICATION: LE	overhand if the same						
GENERATOR'S CERTIFICATION: I h state law, has been properly described waste is a treatment residue of a previ	d, classified and package	ove named mater	ial is not a hazardous wa	aste as define	d by 40 CF	R 261 or any ap	plicable
Waste is a treatment residue of a provi	ought roots at 1	The state of the s	ooriginori for transports	auon accordin	g to applica	able regulations:	AND, if this
been treated in accordance with the re	equirements of 40 CFR 2	268 and is no long	er a hazardous waste as	defined by 4	0 CFR 261	arrant that the wa	aste has
K OFER	VIRON acting as authorize	ed agent for the NEI	NT.			of the same	
p. Generator Authorized Agent Name (	(Print) q. Si	ignature			r. Date		
II. TRANSPORTER (Gela. Transporter's Name and Address:	nerator completes I	la band T			I. Date		
		lia-b and Irans	sporter completes II	c-e)			
The direction of the control of the		na-b and Irans	sporter completes II	c-e)			
Wenke			sporter completes II	c-e)			
Wenjoo 4660 FlippinStreet, Las Va			sporter completes II	c-e)			
Wentoo 4660 FlippinStreet, Las Va			sporter completes II	c-e)			
Wentco 4000 FlippinStreet, Las Ve b. Phone:	eq## FIV 702-465-5849	3	sporter completes II	c-e)			
Wentoo 1000 FlippinStreet, Las Ve b. Phone:	eque IIV 702 465 5849						
b. Phone:  D. Driver Name (Print)  II. DESTINATION (General Control of the Contro	d. Signatur	re c and Destinati	ion Site completes	e. Date			
b. Phone:  C. Driver Name (Print)  III. DESTINATION (General Disposal Facility and Site Address:	d. Signatur		ion Site completes	e. Date			
D. Phone:  Disposal Facility and Site Address:  Aper Regional Landilli	d. Signatur rator complete Illa-o	re c and Destinati	ion Site completes	e. Date			
b. Phone:  Disposal Facility and Site Address:  Aper Regional Landilli	d. Signatur rator complete Illa-o	re c and Destinati	ion Site completes	e. Date			
D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landill  13550 U.S. Highway 93 Feb.	d. Signatur rator complete Illa-c	re c and Destinati c. US EPA Numb	ion Site completes er d. Discrepancy Indi	e. Date IIId-g) ication Space:			
b. Phone:  C. Driver Name (Print)  III. DESTINATION (General Disposal Facility and Site Address:  Aper Regional Landilli	d. Signatur rator complete Illa-c	re c and Destinati c. US EPA Numb	ion Site completes er d. Discrepancy Indi	e. Date IIId-g) ication Space:		rate.	
b. Phone:  DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landill 13550 U.S. Highway 93 Fb. hereby certify that the above named metals and m	d. Signatur rator complete Illa-complete Ill	ed and to the best	ion Site completes er d. Discrepancy Indi	e. Date IIId-g) ication Space:		rate.	
b. Phone:  DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landfill  13550 LS Highway 93 Feb.  hereby certify that the above named m	d. Signature rator complete Illa-complete Il	e and Destinati c. US EPA Numb	ion Site completes er d. Discrepancy Indi	e. Date IIId-g) ication Space:		rate.	
b. Phone:  Disposal Facility and Site Address:  Aper Regional Landfill  13550 Lt S. Highway 93 Fe hereby certify that the above named m  Name of Authorized Agent (Print)  V. ASBESTOS (Generato	d. Signature rator complete Illa-complete Il	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the fo	e. Date  Illd-g)  cation Space:  regoing is true  g. Date	e and accu	rate.	
D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landfill  13550 LS Highway 93 Feb.  hereby certify that the above named m  Name of Authorized Agent (Print)  V. ASBESTOS (Generator)  Operator's Name and Address:	d. Signature rator completes IVa-f a	ed and to the best	ion Site completes er d. Discrepancy Indi	e. Date  Illd-g)  cation Space:  regoing is true  g. Date	e and accu	rate.	
D. Phone:  DESTINATION (General Disposal Facility and Site Address:  Aper Regional Landilli 13550 Lts Highway 93 Feb.  hereby certify that the above named m.  Name of Authorized Agent (Print)  V. ASBESTOS (Generator)  Operator's Name and Address:	d. Signature rator completes IVa-f a	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the fo	e. Date  IIId-g)  cation Space:  regoing is true  g. Date  ame and Addr	e and accu	rate.	
D. Phone:  D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landilli 13550 113 Highway 97 Head on the Address of Authorized Agent (Print)  Name of Authorized Agent (Print)  V. ASBESTOS (Generator Operator's Name and Address:  Walker Specially Construct Phone:	d. Signature rator complete Illa-complete Illa-completes IVa-f a	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the fo	e. Date  IIId-g) cation Space:  regoing is true g. Date  g. Date	e and accu	rate.	
D. Phone:  D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landilli 13550 113 Highway 97 Head on the Address of Authorized Agent (Print)  Name of Authorized Agent (Print)  V. ASBESTOS (Generator Operator's Name and Address:  Walker Specially Construct Phone:	d. Signature rator complete Illa-complete Illa-completes IVa-f a	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the fo	e. Date  IIId-g) cation Space:  regoing is true g. Date  g. Date	e and accu	rate.	
D. Phone:  D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Apen Regional Landilli 13550 113 Highway 97 Head on the Address of Authorized Agent (Print)  Name of Authorized Agent (Print)  V. ASBESTOS (Generator Operator's Name and Address:  Walker Specially Construct Phone:	d. Signature rator complete Illa-complete Illa-completes IVa-f a	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the fo	e. Date  IIId-g) cation Space:  regoing is true g. Date  g. Date	e and accu	rate.	
D. Phone:  D. Driver Name (Print)  II. DESTINATION (General Disposal Facility and Site Address:  Aper Regional Landilli (1950) 13 Highway 24 Feb.  hereby certify that the above named many control of Authorized Agent (Print)  V. ASBESTOS (Generator Operator's Name and Address:  Walker Special Constructions and Address:  Phone:  Special Handling Instructions and Address:	d. Signature rator complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-completes IVa-f all Illa-completes	ed and to the best	ion Site completes er d. Discrepancy Indi t of my knowledge the for complete IVg-i) Responsible Agency Na Southern N PO Box 390 Phone:	e. Date  Illd-g) ication Space:  regoing is true  g. Date  ame and Addr  ame and Addr  ame and Addr	ess:	50 0550	
Destination (General Disposal Facility and Site Address:  Apen Regional Landfill (1550 H & Highway 93 Fig.)  hereby certify that the above named m  Name of Authorized Agent (Print)  // ASBESTOS (Generator Operator's Name and Address:  Walker Specially Construct Phone:  Special Handling Instructions and Address:  Priable Non-Friable Bott  PERATOR'S CERTIFICATION Library	d. Signature rator completes IVa-f and Information:  h % Friable	re c and Destinati c. US EPA Numb  ed and to the best  nd Operator co  d.	ion Site completes er d. Discrepancy Indi t of my knowledge the fo  complete IVg-i) Responsible Agency Na  Southern N PO Box 398  Phone:	e. Date  Illd-g) cation Space:  regoing is true g. Date  ame and Addr ame and Addr	ess:	50.0450	pping name
Destination (General Destination (General Disposal Facility and Site Address:  Aper Regional Landfill (1955) Highway 93 Feb.  hereby certify that the above named m.  Name of Authorized Agent (Print)  V. ASBESTOS (Generator Operator's Name and Address:  Walter Specially Constructions and Address:  Phone:  Special Handling Instructions and Address:  Perator's Certification (Print)	d. Signature rator completes IVa-f and Information:  h % Friable	re c and Destinati c. US EPA Numb  ed and to the best  nd Operator co  d.	ion Site completes er d. Discrepancy Indi t of my knowledge the fo  complete IVg-i) Responsible Agency Na  Southern N PO Box 398  Phone:	e. Date  Illd-g) cation Space:  regoing is true g. Date  ame and Addr ame and Addr	ess:	50.0450	ping name
b. Phone:  DESTINATION (General Disposal Facility and Site Address:  Aper Regional Landilling Instructions and Address:  Name of Authorized Agent (Print)  V. ASBESTOS (Generator)  Operator's Name and Address:  Walter Special Landilling Instructions and Address:  Phone:  Special Handling Instructions and Address:  Perator's CERTIFICATION: I hereby a classified, packaged, marked anational governmental regulations.	d. Signature rator complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-complete Illa-completes IVa-f all Illa-completes Illa-comp	ed and to the best and Operator co d. d. white of this consigned are in all respect	ion Site completes er d. Discrepancy Indi t of my knowledge the fo  complete IVg-i) Responsible Agency Na  Southern N PO Box 398  Phone:	e. Date  Illd-g) cation Space:  regoing is true g. Date  ame and Addr ame and Addr	ess:	50.0450	pping name
Destination (General Disposal Facility and Site Address:  Apen Regional Landfill  1550 H S Highway 93 Fel- hereby certify that the above named m  Name of Authorized Agent (Print)  ASBESTOS (Generator Operator's Name and Address:  Walker Specially Construct  Phone:  Special Handling Instructions and Address:  Perator's Certification   Bott	d. Signature rator completes IIIa-completes IVa-f and itional Information:  h % Friable by declare that the context diabeled/placarded, and itional information in the context diabeled/placarded, and itional information.	ed and to the best and Operator co d. d. white of this consigned are in all respect	ion Site completes er d. Discrepancy Indi t of my knowledge the formplete IVg-i) Responsible Agency Na Southern Na PO Box 399 Phone:  Non-Friable Iment are fully and accurate in proper condition for	e. Date  Illd-g) cation Space:  regoing is true  g. Date  g. Date  ame and Addr  awada Health  arately describe transport acc	ess: District	y the proper ship pplicable interna	tional and



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a. Generator's US EPA ID Number		10100							
			b. Manifest Doci	ument	Number		c. Page	1 of	Take 19
d. Generator's Name and Location:				e. 0	Generator's Mailing Ad	dress:	-		
Nevada Environmental Pass	ownee Tro	ist MIFF							
510 Fourth Street					35 E Wask	on the Bi-			
f. Phone: Herderson Dr. 20015		408.28		a F	Phone: Chicago IL		1330		
If owner of the generating facility differs from	om the ge	enerator,	provide:	9.1	HONO. STOCKED, IL	(OLNOLED			
h. Owner's Name:									
j. Waste Profile #	k Eus I	Data	1111111111111		wner's Phone No.:		12-498-28	00	
J. Waste Floring #	k. Exp. I	Date	I. Waste Shi Description	ipping I	Name and		ntainers	n. Total	o. Unit
			Description	-		No.	Туре	Quantity	Wt/Vol
	1		1						
3825 13 12575		010	ACM Soil						
	17/41/9	20,10	Sec. 181 2011				D.T.	20 Y	
			THE REAL PROPERTY.						
GENERATOR'S CERTIFICATION: I heret	hy certify t	that the	above named mat	ant-1 tes					
GENERATOR'S CERTIFICATION: I heret state law, has been properly described, cla waste is a treatment residue of a previous	assified ar	nd packa	above named mate	erial is	not a hazardous waste	as define	d by 40 Cl	R 261 or any app	licable
waste is a treatment residue of a previousl been treated in accordance with the requir	ly restricte	ed hazar	dous waste subjec	t to the	Land Disposal Restrict	n accordin	g to applic	able regulations; A	AND, if this
been treated in accordance with the requir	ements of	f 40 CFF	R 268 and is no lon	ger a h	nazardous waste as de	efined by 4	0 CFR 26	arrant that the was	ste nas
A Da Carlo Dan OF ENTRE	ON acting (	er author	rized agent for the N	TRE			0.11,20		
p. Generator Authorized Agent Name (Prin								11 / State	
		ator completes IIa-b and Transporter completes IIc-e)							
a. Transporter's Name and Address:	ator cor	npietes	s lia-b and Ira	nspor	ter completes lic-	e)			
Werdoo									
4860 RippinStreet, Las Vega	B BB 4702	465-59							
b. Phone:					Buck Pu	-7			
660		7	week		Harris Harris	1 2	11		
c. Driver Name (Print)		d. Signa				-10	171	3	
	or comp	loto III	o and Destina	41	0.14	e. Date			
a. Disposal Facility and Site Address:	or comp	iete ille	a-c and Destina	auon a	Site completes illo	1-g)		No.	
and One Address.			c. US EPA Num	iber	d. Discrepancy Indicat	tion Space			
Apex Regional Landfill									
b. 13550 U.S. Highway 93 North	- H V Chwick	Sin Visite							
I hereby certify that the above named mater	rial has be	een acce	epted and to the be	est of m	ny knowledge the foreg	going is tru	e and acc	urate.	
e. Name of Authorized Agent (Print)	f.	. Signatu	ıre			a Data			
IV. ASBESTOS (Generator co	omplete	s IVa-f	and Operator	comp	loto IV(a i)	g. Date			
a. Operator's Name and Address:		01141	and operator						
1,100,000				c. Res	ponsible Agency Nam	e and Add	ress:		
Walker Specially Construction	Ing.				Southern New	mades Libertalia			
ECONOMICA DOLLA						and Lister			
b. Flione.	7777	19.756		d. Pho					
e. Special Handling Instructions and Additio	nal Inform	nation:			Two Aediso' to	1	1102	759-000U	
									TO STATE OF
f C Calable C N Fill C -		% Fria	ble	% Nor	ı-Friable				
f. Friable Non-Friable Both				70 1401	Habie				
OPERATOR'S CERTIFICATION: I hereby d	eclare tha	at the co.	ntents of this consi	anmen	t are fully and accurat	aly doggath	od cha	bu the	
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la	eclare that beled/pla	at the co	ntents of this consi and are in all response	gnmen ects in	t are fully and accurat	ely describ	ed above	by the proper ship	ping name.
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la	eclare that abeled/pla	at the co carded,	ntents of this consi and are in all response	gnmen ects in	t are fully and accurat proper condition for tra	ely describ ansport ac	ed above cording to	by the proper ship applicable internat	ping name. tional and
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la	eclare that abeled/pla	at the co carded,	ntents of this consi and are in all resp	gnmen ects in	t are fully and accurat proper condition for tra	ely describ ansport ac	ed above cording to	by the proper ship applicable internat	ping name, tional and
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la national governmental regulations.  9. Operator's Name and Title (Print)	h	Signate	and are in all respi	BOIS III	proper condition for tra	ansport ac	cording to	applicable internat	tional and
f. Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la national governmental regulations.  g. Operator's Name and Title (Print) "Operator refers to the company which owns renovation operation or both	h	Signate	and are in all respi	BOIS III	proper condition for tra	ansport ac	cording to	applicable internat	tional and



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J. GENERATOR (Generat	or completes la	a-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:	1		
Mevada Environmental Resp	oonse Trusi (NED	T)		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
510 Fourth Street			35 E Wa	ker Dr. Sta	1550		
f. Phone: Handerson, IV 890 15	312 499-260	X)		II 60606	Interna		
If owner of the generating facility differs fr	om the generator,	provide:		1915			7
h. Owner's Name:			i. Owner's Phone No.:		12-498-28	00	
j. Waste Profile #	k. Exp. Date		pping Name and		ntainers	n. Total	o. Unit
		Description		No.	Туре	Quantity	Wt/Vol
				- 1			
3625 13 12575	-01/2010	ACM Soil			DT	20 Y	
						437	
		100					
JA.							
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl.	by certify that the a	above named mate	rial is not a hazardous wa	acto as define	d by 40 CI	D 201	P. 1.4
state law, has been properly described, clawaste is a treatment residue of a previous	assified and packa	iged, and is in prop	er condition for transporta	ation according	ng to applic	able regulations:	AND if this
waste is a treatment residue of a previous been treated in accordance with the requir	ly restricted hazard rements of 40 CFR	dous waste subject	to the Land Disposal Re	strictions. I ce	ertify and w	arrant that the was	ste has
A/ CA OF BURR	Off acting as an mor	zed agent for the file	el a liazardous waste as	s defined by 4	0 CFR 261		
					THE RESERVE	1 13	
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Generator Authorized Agent Name (Printle III.)		Signature			r. Date		
a. Transporter's Name and Address:	ator completes	s IIa-b and Tran	sporter completes I	lc-e)			
Wierdoo							
4660 FlippinStreet, Las Vega	s NV 702 465 58						
b. Phone:							
		NEW			77		
c. Driver Name (Print)	d. Signat		Start I a land		3 15 1	AT	
III. DESTINATION (Generate			lian Cita	e. Date			
a. Disposal Facility and Site Address:	or complete illa	c. US EPA Numb					
Abex Regional Landfill		C. OS EFA NUM	d. Discrepancy Ind	ication Space			
13500 110 11-1-1 03 01 11							
b. 13550 U.S. Highway 93 (forth							
I hereby certify that the above named mate	rial has been acce	epted and to the bes	st of my knowledge the fo	pregoing is tru	ie and acci	roto	
				Joing to tre	o unu acci	arato.	
e. Name of Authorized Agent (Print)	f. Signatu	ire					
IV. ASBESTOS (Generator c			complete (Va i)	g. Date			
a. Operator's Name and Address:				In	· · · · · · · · · · · · · · · · · · ·		
Walker Specially Construction	Ing		c. Responsible Agency N	ame and Add	ress:		
5428 Windy Road							
b. Phone: Las Vegas, MV 89165	702-249-2500		I. Phone: Las Vegas		702-	759-0660	
e. Special Handling Instructions and Addition	nal Information:		i. I Holle.				
f. Friable Non-Friable Both	% Fria	ble	% Non-Friable		The Marie		
OPERATOR'S CERTIFICATION: I hereby of	leclare that the ser	stanta of this		rately describ	ped ahove	by the proper ship	ning name
and are classified, packaged, marked and la national governmental regulations.	abeled/placarded,	and are in all respe	cts in proper condition fo	r transport ac	cording to	applicable interna	tional and
gionar rogalations.							
0							
g. Operator's Name and Title (Print)  *Operator refers to the company which own	h. Signatu	ire		i. Date			
*Operator refers to the company which owns renovation operation or both	s, leases, operates	, controls, or super	vises the facility being de	molished or r	enovated,	or the demolition of	or



# REPUBLIC NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST SERVICES

1197244

I. GENERATOR (Generato	r complet	tes la-r)							
a. Generator's US EPA ID Number		b. N	Manifest Docum	ent Number			c. Page	1 of	
d. Generator's Name and Location:		1000		e. Generator'	s Mailing Add	ress:			
Meyada Environmental Resp	onse Irusi								
S40 Proudh Street				g. Phone:	35 E Wacker	Dr Ste 1	750		
f. Phone:  If owner of the generating facility differs from	om the gene	erator, provi	ide:	g. r none.	Chicago, II. 6	0606			
				i. Owner's Ph	one No :		0.400.00	No.	
h. Owner's Name: j. Waste Profile #	k. Exp. Da	ite	I. Waste Ship	ping Name and			tainers	n. Total	o. Unit
J. Waste Frome #			Description			No.	Туре	Quantity	Wt/Vol
							S.T	30 1	
3925 19 12575	121/20	163	ACASSOL						
									P 1 4 - 1 1
		1000							
	14.00								
	115 11		d make	vial is not a bay	rardous waste	as define	d by 40 C	ER 261 or any ar	onlicable
GENERATOR'S CERTIFICATION: I here state law, has been properly described, c	accified and	nackaged	and is in prop	er condition to	transportatio	n accordi	id to applie	Jable regulations	AIND, II UIIO
waste is a treatment residue of a previous been treated in accordance with the requi	ly restricted	hazardous	s waste subject	to the Land D	sposal Restric	ctions. I ce	eruiy and v	variant that the w	aste has
been treated in accordance with the requi	rements of a	40 CFR 200	o allu is no long	ger a riazardoc	S Waste as ac	Jimod by	00,,,20	1 1 1 1 1 1 1	
		The second secon	agent for the ME	Ri		No. No. 10	r. Date		A
p. Generator Authorized Agent Name (Pri	nt)		nature a-h and Trar	asporter cor	noletes Ilc-	e)	1. Date		
a. Transporter's Name and Address:	Tator Corr	ipiotoo iid	a b and man	ioportor co.					
Werdon									
4660 FlippinStreet, Las Ved	as MV 702	465 5848							
b. Phone:	1	1					17	110	
TOM		300	MALL	4		a Data	01	1113	
c. Driver Name (Print)		d. Signature		ation Site of	ompletes III	e. Date			
III. DESTINATION (General a. Disposal Facility and Site Address:	tor compi	ete ilia-c	c. US EPA Nun	nber d. Disc	repancy Indica	ation Space	e:		
a. Disposal Facility and Site Address.									
Apex Regional Landfill									
b. 13550 U.S. Highway 93 Nor	MALVANTE	39165			1 1 1 1 6	and and last	and a	au mata	
I hereby certify that the above named ma	terial has be	een accepte	ed and to the b	est of my knov	vieage the fore	egoing is t	rue and ad	curate.	
						a Data			
e. Name of Authorized Agent (Print)		Signature		complete I	\/a-i\	g. Date			
IV. ASBESTOS (Generator	complete	es iva-i a	nd Operator	c Responsib	le Agency Na	me and A	ddress:		
a. Operator's Name and Address: Walker Specially Construction	on foc			C. I Cosponois	Southern N			of	
6428 Windy Road						12			
b. Phone: Las Vegas, NV 99165		43-2500		d. Phone:	Las Vegas.	NV	76	12-759-0660	
e. Special Handling Instructions and Add	itional Inforr	mation:							
f. Friable Non-Friable Bott	n de alore th	% Friabl	e onto of this con	% Non-Friab	le	rately desc	cribed abo	ve by the proper	shipping name
and are classified, packaged, marked an	d labeled/pla	acarded, ar	nd are in all res	pects in prope	r condition for	transport	according	to applicable into	ernational and
national governmental regulations.									
	3								
g. Operator's Name and Title (Print) *Operator refers to the company which of	wine looses	h. Signatur	controls or su	nervises the fa	cility being de	i. Date	or renovate	ed, or the demoli	tion or
*Operator refers to the company which of renovation operation or both	wns, leases	, operates,	controls, or su	pervises trie la	omity boiling de	ononod (			



# REPUBLIC NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST SERVICES

1197196

I. GENERATOR (General	or compre	CICS I						. D	1 -6		
a. Generator's US EPA ID Number			b.	Manifest Docun	nent N	umber		c. Page	1 01		
d. Generator's Name and Location:					e. Ge	enerator's Mailing Ad	dress:				
Nevada Engraphical Elect	onse Irus	A TRUEF				SER BLA	- Francis				
						35 E. Waok					
f. Phone: Henderson, Nevada 8901					g. Ph	none: Chago, II.	DUGUO				
If owner of the generating facility differs from	om the ger	nerator	, pro	vide:				2-498-28			
h. Owner's Name:						vner's Phone No.:				11-2	
j. Waste Profile #	k. Exp. D	ate		I. Waste Ship Description	ping N	lame and	M. Cor	Type	n. Total Quantity	o. Unit Wt/Vol	
						Mon Regulated		.,,,,			
	2020-2				dons.			5.5	100		
3625 13 12625	32357			Soit				DT	20	Y.	
					-						
		-	_		1						
									2010		
GENERATOR'S CERTIFICATION: I here	eby certify t	that the	e abo	ove named mate	rial is	not a hazardous was	te as define	d by 40 C	FR 261 or any a	pplicable	
state law, has been properly described, c waste is a treatment residue of a previous	laccified ar	nd nacl	kane	d and is in prop	er con	dition for transportati	on according	id to appli	cable requiations	AND, II this	
been treated in accordance with the requi	irements of	f 40 CF	=R 2	68 and is no lon	ger a h	nazardous waste as o	defined by 4	0 CFR 26	1.	raoto nao	
A 34 Life Life Life Life Life Life Life Life	RONA JOHN IS	205 GTF	Mice.	ged agera for th	E.ULS			1-1-5	1	(S) (A) (A)	
a Cignoture								r. Date			
p. Generator Authorized Agent Name (Finit)   4. Oignature											
II. TRANSPORTER (Generator completes lla-b and Transporter completes llc-e)  a. Transporter's Name and Address:											
										1 7 7 6 6 6	
4660 Flippin Street	19975	545 58									
Las Vegas Flevada 69 / 15 b. Phone:	ALEX	30 040									
b. I florid.				State of the		and the same		7,5,7		13	
N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Ket .	1 0:-				- Company	e. Date			1	
c. Driver Name (Print)		d. Sig			otion	Sito completes I					
III. DESTINATION (General	tor comp	olete	IIIa-0	c. US EPA Nur		d. Discrepancy India		Α'			
a. Disposal Facility and Site Address:				C. US EFA NUI	inder	u. Discrepancy man	Jation Opac				
Las Vegas Nevada 89 165											
b. I hereby certify that the above named ma	terial has b	been a	ссер	ted and to the b	est of	my knowledge the fo	regoing is t	rue and ad	ccurate.		
Thoroby sortiny that the above hames											
		f 01					g. Date	-			
e. Name of Authorized Agent (Print)		f. Sigr			com	ploto I\/a-i\	y. Date				
IV. ASBESTOS (Generator	complet	esiv	a-1 a	and Operator		esponsible Agency N	ame and A	ddroee:			
a. Operator's Name and Address:					C. IN	esponsible Agency IV	ame and A	dui Coo.			
					d Di	none:					
b. Phone:     e. Special Handling Instructions and Add	litional Info	rmation	n:		u. 1 1	ione.					
e. Special Hariding mondono and mag	ilional inio										
	2 20 0	0/	Detail	alo	0/, NI	on-Friable					
f. ☐ Friable ☐ Non-Friable ☐ Botl OPERATOR'S CERTIFICATION: I hereb	v doclare t	that the	Friat	tents of this cor	sianm	ent are fully and accu	urately desc	cribed abo	ve by the proper	shipping name	
and are classified, packaged, marked an	d labeled/p	olacard	led, a	and are in all res	spects	in proper condition fo	r transport	according	to applicable int	ernational and	
national governmental regulations.											
g. Operator's Name and Title (Print)		h. Sig	gnatu	ıre			i. Date				
*Operator refers to the company which o	wns, lease	s, oper	rates	, controls, or su	pervise	es the facility being de	emolished of	or renovate	ed, or the demoli	tion or	
renovation operation or both											



1197192

I. GENERATOR (Generate	or completes	la-r)						
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of		
d. Generator's Name and Location:			e. Generator's Mailing Ad	dress:				
hlevada Eneronmental Resp 510 Fourth Street	onse Triat (HE	Ph	05 E Wack	er or Ste				
f. Phone: Henderson, Newada 8901			g. Phone: Chicago, IL	60606				
If owner of the generating facility differs fr	om the generator	r, provide:	i Oungris Phone No. 312 498 3800					
h. Owner's Name:			i. Owner's Phone No.:					
j. Waste Profile #	k. Exp. Date	I. Waste Shi Description	pping Name and	m. Con No.	Type	n. Total Quantity	o. Unit Wt/Vol	
3925 13 12625	3/3(/2014		rdous, Non-Regulated	1		20	Y	
	12							
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and pack by restricted haza	kaged, and is in prop ardous waste subject	per condition for transportation to the Land Disposal Restrict	on according	g to applic	able regulations;	AND if this	
Maria America					1	7-		
p. Generator Authorized Agent Name (Prin	p. Generator Authorized Agent Name (Print) q. Signature				r. Date			
II. TRANSPORTER (Gene		1 4	nsporter completes lic-	.e)	1. Duto			
a. Transporter's Name and Address:			noportor completed no	0)				
4660 Flippin Street								
Las vegas Nevada 89115 b. Phone:	702-645-58	H8						
Carlo Carlo			Mark Color		6 *	8-13		
c. Driver Name (Print)	d. Sigr			e. Date				
III. DESTINATION (Generat	or complete I							
a. Disposal Facility and Site Address:	n	c. US EPA Nur	nber d. Discrepancy Indica	ation Space	:			
Las Vegas Flevada 80 165								
b.								
I hereby certify that the above named mate	erial has been ac	cepted and to the b	est of my knowledge the fore	egoing is tru	e and acc	curate.		
e. Name of Authorized Agent (Print)	f. Signa			g. Date				
IV. ASBESTOS (Generator of	completes IVa	a-f and Operator	complete IVg-i)					
a. Operator's Name and Address:			c. Responsible Agency Na	me and Add	dress:			
b. Phone:			d. Phone:					
e. Special Handling Instructions and Additi	onal Information:							
f. Friable Non-Friable Both	% F	riable	% Non-Friable					
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	declare that the labeled/placarde	contents of this cond, and are in all res	signment are fully and accura pects in proper condition for	ately describ transport ac	bed above ccording to	by the proper so applicable inter	nipping name, national and	
		N. 20 - 1 - 11 -						
g. Operator's Name and Title (Print)	h. Sign	nature		i. Date				
*Operator refers to the company which own renovation operation or both	ns, leases, opera	ites, controls, or sup	ervises the facility being den	nolished or	renovated	, or the demolition	n or	



1197198

I. GENERATOR (Generate	or complete	s la-r)						
a. Generator's US EPA ID Number		b.	Manifest Docun	nent Number	1350	c. Page	1 of	
d. Generator's Name and Location:	11181141			e. Generator's Mailing A	ddress:	-		
Hevada Environmental Resp \$10 Fourth Street				35 E Was	er Dr. Ste			
f. Phone: Henderson Bleventa 2001				g. Phone: Chicago II	60606			
If owner of the generating facility differs fr	om the genera	tor, prov	/ide:					
h. Owner's Name:				i. Owner's Phone No.:	3	12-498-26	000	20.5
j. Waste Profile #	k. Exp. Date		I. Waste Ship	ping Name and	m. Co No.	Type	n. Total Quantity	o. Unit Wt/Vol
					140.	Турс	Quantity	770 701
9825 13 12625	3491/2015	4	Soil Soil	dous, Non Regulated	1	bī	20	Y
			The second second					
GENERATOR'S CERTIFICATION: L bare	by portify that t	the cha	to named wat	in the seat of the				
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl	assified and pa	ackaged	and is in prope	er condition for transportat	ion according	na to applic	cable regulations	· AND if this
waste is a treatment residue of a previous been treated in accordance with the requi	ly restricted ha	zardous	waste subject	to the Land Disposal Rest	rictions I co	ertify and w	parrant that the w	aste has
at Liver	ICH acting as a	otherie	ed again for the	PIFAT	defined by 4	U CFR 26	1.	
To Connection Authorized Assert May (D.) (D.)								
	D. Generator Authorized Agent Name (Print) q. Signature r. Date							
a. Transporter's Name and Address:	The state of the s							
1660 Flippin Street								
Las Vegas Nevada 69115	702 645							
b. Phone:	10200	DO TO						
I Ke Carlonder Co.					1 70		-13	
c. Driver Name (Print)		ignature			e. Date			
III. DESTINATION (Generat	or complete							
a. Disposal Facility and Site Address:		C	. US EPA Numb	ber d. Discrepancy Indic	cation Spac	e:		
Tagad Cag Lappara, As Thou								
Las Vegas Nevada 89 165 b.								
I hereby certify that the above named mate	erial has been	accepte	d and to the bes	st of my knowledge the for	regoing is tr	ue and acc	curate	
					J J	ac and ac	ourato.	
e. Name of Authorized Agent (Print)	f Sig	nature			g. Date			
IV. ASBESTOS (Generator of			d Operator o	complete IVa-i)	g. Date			
a. Operator's Name and Address:				c. Responsible Agency Na	ame and Ad	dress:		-
				3,10	and and rid	u. 000.		
b. Phone:				d. Phone:				
e. Special Handling Instructions and Additi	onal Informatio	on:						
f. Friable Non-Friable Both		Friable		% Non-Friable				
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	labeled/placard	e conter ded, and	nts of this consignate of this consignation of this consignation of the constant of the constant of the consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of this consignation of the consistency of the consisten	gnment are fully and accu- ects in proper condition for	rately descr transport a	ccording to	by the proper sl p applicable inter	hipping name, national and
g. Operator's Name and Title (Print)	h. Sig	gnature			i. Date			
*Operator refers to the company which own renovation operation or both	ns, leases, ope	rates, co	ontrols, or super	rvises the facility being de	molished or	renovated	, or the demolitio	n or



1197249

I. GENERATOR (Generate	or completes	la-r)						
a. Generator's US EPA ID Number		b. Manifest Doc	ument Number		c. Page	1 of		
d. Generator's Name and Location:			e. Generator's Mailing A	Address:				
Mesada Environmental Resp	erse Trust (HE	PTI						
f Phone: 510 Fourth Street			95 F 14ac	ker Dr. Sta				
If owner of the generating facility differs fro	om the generator	r. provide:	g. Phone:	EVEC 6				
h. Owner's Name:	3-11-11-11	, , , , , , , , , , , , , , , , , , , ,						
j. Waste Profile #	k. Exp. Date	I. Waste Sh	i. Owner's Phone No.: pping Name and		ntainers	n. Total	- 11-9	
		Description	pping realite and	No.	Type	Quantity	o. Unit Wt/Vol	
3825 13 12575	5072014	ACMSon			EVT .	200		
	35.4 15.50 1.3	- INICANI		1	LH	30 - A		
					100			
05/150/150/150/150/150/150/150/150/150/1								
GENERATOR'S CERTIFICATION: I hereby state law, has been properly described, clauses is a treatment residue of a proviously	by certify that the	above named mate	erial is not a hazardous was	ste as define	d by 40 Cl	R 261 or any app	licable	
The state of a discontinuity residue of a Dieviousi	v resulcied naza	monte waste stinier	t to the land Dienocal Doct	rictions I as	white a man of a	managed the of the	AND, if this ste has	
been treated in accordance with the require	ements of 40 CF	R 268 and is no lor	ger a hazardous waste as	defined by 4	0 CFR 26	l		
Note Prop					1/3			
p. Generator Authorized Agent Name (Prin		. Signature		4	r. Date			
a. Transporter's Name and Address:	II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)							
Axeudoo								
4660 FlippinStreet, Las Vega	s NW 702-465-5	848						
b. Phone:		-						
GEO	6	- All		16	1/2	12		
c. Driver Name (Print)	d. Sign	ature		e. Date	1	1		
III. DESTINATION (Generate	r complete III	a-c and Destina	ation Site completes II	lld-g)				
a. Disposal Facility and Site Address:		c. US EPA Nun			:			
	INCOME AND LOS							
13550 U.S. Highway 93 North b.	LA TAY PAYING							
I hereby certify that the above named mater	rial has been acc	cented and to the hi	est of my knowledge the for	rogoing in te	10 and a			
		The same to the bi	of the following the following	egoing is tru	e and acc	urate.		
e. Name of Authorized Agent (Print)	f. Signa	ture		a Dete				
IV. ASBESTOS (Generator co			complete IVa-i)	g. Date				
a. Operator's Name and Address:		, and operator	c. Responsible Agency Na	me and Ad	Irocci III			
6428 Windy Road			PO Box 390		11655.			
Las Vegas, NV 89165	702-243-250	00	Las Vegas,		702	759-0660		
b. Phone:			d. Phone:					
e. Special Handling Instructions and Additio	nal Information:							
(D 5:11 D 4 5:11 D 5								
f. Friable Non-Friable Both	% Fri	able	% Non-Friable					
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la national governmental regulations.	beled/placarded	, and are in all resp	ects in proper condition for	transport ac	cording to	by the proper ship applicable internal	ping name.	
national governmental regulations.					3 .0	- Fire and internet	a sila alla	
g. Operator's Name and Title (Print)	h. Signa	ature		i. Date				
*Operator refers to the company which owns renovation operation or both	o, reases, operate	es, controls, or supe	ervises the facility being der	nolished or i	enovated,	or the demolition	or	



1197190

I. GENERATOR (Generate	or completes	la-r)						
a. Generator's US EPA ID Number	Barrier J.	b. Manifest Doci	ument Number		c. Page	1 of		
d. Generator's Name and Location:			e. Generator's Mailing Ad	dress:				
Flesada Ensironisental Rea 5 ID Footb Street			PLE Wast					
f. Phone: Henderson Blevada 6001  If owner of the generating facility differs fr			g. Phone: Chicago, IL	60606				
in owner of the generating facility differs in	om the generato	r, provide:						
h. Owner's Name:			i. Owner's Phone No.:	31	2 498 28	00		
j. Waste Profile #	k. Exp. Date	I. Waste Sh Description	ipping Name and	The state of the s	ntainers	n. Total	o. Unit	
		Description		No.	Туре	Quantity	Wt/Vol	
		Hon Haza	ardous, Non Regulated					
3825 13 12625	3/91/2014	Seil		1	DT	20	4	
				-				
GENERATOR'S CERTIFICATION: I here	by certify that the	a above named mot	erial is not a hazardaya wast	o oo defin	d by 40 01	TD 201 cr	anlia a h l	
state law, has been properly described, cl	assified and pac	kaged, and is in pro	per condition for transportation	on accordin	a to applic	able regulations	AND if this	
waste is a treatment residue of a previous	ly restricted haza	ardous waste subject	ct to the Land Disposal Restri	ictions I ce	rtify and w	arrant that the w	aste has	
been treated in accordance with the requi	contents of 40 Cr	through spect for	nger a hazardous waste as d	efined by 4	0 CFR 26			
ALLA MHAR					205	WALL OF	THE	
p. Generator Authorized Agent Name (Print) q. Signature r. Date								
	II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)							
a. Transporter's Name and Address:								
4660 Fliotoiri Straet								
b. Phone:	702-645-59	148						
110		1.82		10/2	1-			
c. Driver Name (Print)	1.0	7.7/		110	115			
III. DESTINATION (Generat	d. Sign		otion Cito completes III	e/Date /				
a. Disposal Facility and Site Address:	or complete i	c. US EPA Nu						
Aper Regional Landfill		C. US EPA NUI	mber d. Discrepancy Indica	ation Space				
Las Vedas Nerada 90165	P.							
b.								
I hereby certify that the above named mate	erial has been ac	ccepted and to the b	pest of my knowledge the fore	eaoina is tru	ue and acc	urate.		
A CONTRACTOR OF THE PARTY OF TH								
e. Name of Authorized Agent (Print)	f. Sign	ature		g. Date				
IV. ASBESTOS (Generator of			complete IVa-i)	g. Date				
a. Operator's Name and Address:	omploted it.	a rana operator	c. Responsible Agency Nar	mo and Ada	droops			
			o. Nesponsible Agency (4a)	ne and Add	11655.			
b. Phone:			d. Phone:					
e. Special Handling Instructions and Additi	ional Information							
f. ☐ Friable ☐ Non-Friable ☐ Both	% F	riable	% Non-Friable					
OPERATOR'S CERTIFICATION: I hereby	declare that the	contents of this con	signment are fully and accura	ately descri	bed above	by the proper sl	hipping name.	
and are classified, packaged, marked and national governmental regulations.	labeled/placarde	d, and are in all res	pects in proper condition for	transport a	ccording to	applicable inter	national and	
gerenmental regulations.						-		
g. Operator's Name and Title (Print)	h. Sigr	ature	populace the facility being the	i. Date				
*Operator refers to the company which own renovation operation or both	no, reases, opera	nes, controls, or sur	bervises the facility being den	iolisned or	renovated	, or the demolitio	n or	



1197197

I. GENERATOR (Generat	or comp										
a. Generator's US EPA ID Number		b.	b. Manifest Document Number				c. Page 1 of				
d. Generator's Name and Location:				e. Generator's Mailing Address:							
Nevada Environmental Resp	onse Tr	EL (HEP T)									
f. Phone: 510 Fourth Street				39 E. Wacker Dr. Ste (550)							
If owner of the generating facility differs fr	om the ge	enerator, pro	vide:	g. Phone: Charage II 60606							
h. Owner's Name:											
i. Waste Profile #	k. Exp.	Date	I. Waste Shir	i. Owner's Phone No.: Shipping Name and m. Containers n. Total o. Unit							
			Description		No.	Туре	Quantity	Wt/Vol			
No. of the same of											
Section and a	19954		Plon Hazar	1000							
3625 13 12625	13531	72014 -	360		- 3	DI	20	Y			
	1000										
		La ** 10			15 1						
CENERATOR'S CERTIFICATION: 1 have	h	Al A Al L -									
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl	assified a	ind package	d, and is in prop	er condition for transportation	on according	o to applic	able regulations:	AND if this			
waste is a treatment residue of a previous been treated in accordance with the requi	ly restrict	ed hazardou	s waste subject	to the Land Disposal Restri	ctions I ce	rtify and w	arrant that the w	aste has			
of Eleval	Old seem	g as auttom	end agent for the	ger a nazardous waste as d	effined by 4	0 CFR 26	l,				
p. Generator Authorized Agent Name (Pri	nt)	a Cia	unah wa				and the state of				
II. TRANSPORTER (Gene			nature	seporter completes lle	0)	r. Date					
a. Transporter's Name and Address:	14101 00	inpictes in	a-b and mai	isporter completes lic-	(e)						
4660 Flippin Street											
Las Vegas Nevada 89115	702-	645-5848	~ /								
b. Phone:		-	-11-1			1	12				
00		(43			10	151	19				
c. Driver Name (Print)  III. DESTINATION (Generat		d. Signature		0	e. Date						
III. DESTINATION (Generat  a. Disposal Facility and Site Address:	or comp		and Destina								
ASSA Calional handful y pion	n		c. OO LI A Nulli	u. Discrepancy maio	allori Space	ž.					
Las Vegas Nevada 99165											
b.											
I hereby certify that the above named mat	erial has l	been accepte	ed and to the be	est of my knowledge the fore	egoing is tri	ue and acc	curate.				
	. 3 . 1	HELLER					Marie House				
e. Name of Authorized Agent (Print)  IV. ASBESTOS (Generator of		f. Signature	-10		g. Date						
	complet	es iva-t ai									
a. Operator's Name and Address:				c. Responsible Agency Nar	ne and Ad	aress:					
b. Phone:				d. Phone:							
e. Special Handling Instructions and Additi	ional Infor	mation:			F 151 E						
	The state of		141 L X 1	as " I have " The house				LES VIX			
f. Friable Non-Friable Both	f. Friable Non-Friable Both Friable Mon-Friable Mon-Friable Mon-Friable Mon-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name.										
and are classified, packaged, marked and national governmental regulations.	labeled/p	lacarded, an	d are in all resp	ects in proper condition for	transport a	bed above ccording to	by the proper stop applicable interr	nipping name, national and			
g. Operator's Name and Title (Print)		h. Signature			i. Date						
*Operator refers to the company which own	ns, leases	s, operates, o	controls, or supe	ervises the facility being dem	nolished or	renovated	, or the demolition	n or			
renovation operation or both								172-0			



# REPUBLIC NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST SERVICES

1197188

GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number	0.05	OF Law of	b. Manifest Doo	ument	ument Number			c. Page 1 of		
d. Generator's Name and Location:				e. Generator's Mailing Address:						
He ada Erciretimental Resi 510 Fourth Street	ponse Inz	at IHEF		15 E. Walter In. Ste. (STR)						
f. Phone:	5 40	100 000	30	g.	g. Phone:					
If owner of the generating facility differs for	rom the ge	nerator,	provide:							
h. Owner's Name:				i. (	Owner's Phone No.:	31	2-498-28	ori		
j. Waste Profile #	k. Exp. [	Date			Name and	the state of the s	tainers	n. Total	o. Unit	
		Description				No.	Туре	Quantity	Wt/Vol	
	111111111111	Film Hava			s, Flon Regulated					
3625 10 12625	0.754				s) morroadoumen		100			
2003 t2 telled	1.91/	2019	5.01				DT.	20	Y.	
	1									
	8-									
						10071				
GENERATOR'S CERTIFICATION: I here	by certify	that the	above named ma	terial is	s not a hazardous waste	e as define	d by 40 Cl	FR 261 or any ap	plicable	
state law, has been properly described, c waste is a treatment residue of a previous	lassified ar	nd packa	aged, and is in pro	oper co	ondition for transportation	n accordin	g to applic	able regulations;	AND, if this	
been treated in accordance with the requi	rements of	f 40 CFF	R 268 and is no lo	nger a	hazardous waste as de	efined by 4	0 CFR 26	1.	asie nas	
MANAGE OF GRAND OF GIVE	ROH acting	eas auth	northead agent for	the NE	RT.		An Ann		17-5-1	
p. Generator Authorized Agent Name (Pri	int)	q.	Signature		r. Date					
II. TRANSPORTER (Gene				anspo						
a. Transporter's Name and Address:										
Werden										
4660 Flooin Street Las Venas Revada 69 L15	700	545-584								
b. Phone:	TORT	CEL VICE		-				,		
670		1	THE STATE OF THE S			10	131	13		
c. Driver Name (Print)		d. Signa	ature		e. Date					
III. DESTINATION (General	tor comp	olete III	a-c and Desti	nation	Site completes Ille	d-g)				
a. Disposal Facility and Site Address:	18		c. US EPA No	ımber	d. Discrepancy Indica	ation Space	):			
Ape: Regional Landfill										
Las Vegas Nevada 89165										
b. I hereby certify that the above named man	torial bac b	2000 000	contact and to the	hoot of	f my lynousladge the fore	enlan la te				
Thereby certify that the above hamed ma	teriai rias L	Deen acc	cepted and to the	DESI UI	Tilly knowledge the lore	going is th	de and acc	curate.		
e. Name of Authorized Agent (Print)	The second secon	f. Signa			1 ( 0 ( )	g. Date		- 1/4		
IV. ASBESTOS (Generator	complete	es iva-	-T and Operato	St. In St. St. St.	MARKAGE INC. A PROPERTY OF THE PARTY OF THE					
a. Operator's Name and Address:				C. K	responsible Agency Nar	ne and Ad	dress:		125-134	
b. Phone:				4 0	Phone:					
e. Special Handling Instructions and Addit	tional Infor	mation:		J 0. 1	none.					
f. ☐ Friable ☐ Non-Friable ☐ Both		% Fr	iable	% N	Von-Friable					
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and	declare th	nat the c	contents of this co	nsignm	nent are fully and accura					
national governmental regulations.					-		1			
- O		- 01								
g. Operator's Name and Title (Print)  *Operator refers to the company which ow		h. Signa		inervis	es the facility being den	i. Date	renovated	or the demolitic	n or	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both										



1197194

I. GENERATOR (Generat	or completes	la-r)							
a. Generator's US EPA ID Number		b. Manifest Docu	st Document Number c. Page 1 of						
d. Generator's Name and Location:			e. Generator's Mailing Address:						
He sada Engirongiental fless	sonse Irust ibiEl								
f. Phone: Henderson, Necada 8901			95 E. Wacker Dr. Sta 1950 g. Phone: Chicago, IL 60806						
If owner of the generating facility differs fr	om the generator	r, provide:	g. Filotie.						
h. Owner's Name:			i Ourada Phasa N	3	2-498-28	00			
j. Waste Profile #	k. Exp. Date	I. Waste Shi	i. Owner's Phone No.: pping Name and	m. Co	m. Containers n. Total o.				
		Description		No.	Туре	Quantity	o. Unit Wt/Vol		
3625.19 12625	9/31/2014	Pion Plaza Soil	Plon Hazardous, Plon Regulated Soil		DT	20	Y		
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and pack	aged, and is in proj irdous waste subject	per condition for transportati	ion accordin	g to applic	able regulations	ANID IF IL		
#11 o Dh 1977			10 TH 100						
p. Generator Authorized Agent Name (Prin	r. Date								
II. TRANSPORTER (General Address:	rator complete	es Ila-b and Tra	nsporter completes llc	:-e)					
4660 Finter Street Las Vedas Nevada 69115 b. Phone:	702-645-59	46							
c. Driver Name (Print)  III. DESTINATION (Generate	d. Sign			e. Date					
a. Disposal Facility and Site Address:	or complete III	c. US EPA Nun			-		Harris		
Las Vegas fle-ada 89165 b.	n.	C. US EPA NUM	nber d. Discrepancy Indic	ation Space	2:				
I hereby certify that the above named mate	erial has been acc	cepted and to the b	est of my knowledge the for	egoing is tru	ue and acc	urate.			
						Part a			
e. Name of Authorized Agent (Print)	f. Signa	ture	g. Date						
IV. ASBESTOS (Generator of	completes IVa	-f and Operator	complete IVg-i)	7 7 7 7					
a. Operator's Name and Address:			c. Responsible Agency Na	ime and Add	dress:				
b. Phone:									
e. Special Handling Instructions and Addition	onal Information:		d. Phone:						
f. ☐ Friable ☐ Non-Friable ☐ Both	0/ =	iabla	0/ 1/2 = 1.11						
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	% Fr declare that the clabeled/placarded	contents of this cons	% Non-Friable signment are fully and accur pects in proper condition for	rately descri transport ac	bed above ecording to	by the proper shapplicable interes	nipping name, national and		
			ME SHARE						
g. Operator's Name and Title (Print)	h. Signa	ature		i. Date					
*Operator refers to the company which own renovation operation or both	ns, leases, operati	es, controls, or sup-	ervises the facility being den	molished or	renovated,	or the demolitio	n or		



1197189

GENERATOR (Generator completes la-r)

1.

a. Generator's US EPA ID Number b.		b. Manifest Document Number			c. Page	c. Page 1 of			
d. Generator's Name and Location:				e. Generator's Mailing Address:					
Nesada Epigron pendal Frosp	onse Irusi	MERT		OF COLUMN OF STREET					
f. Phone: Henderson, Nevada 6901				g. Phone: Chicago, IL 60606					
If owner of the generating facility differs from				g. i none. Sangago, i	L SARANI				
h. Owner's Name:				i. Owner's Phone No.:	3	12-498-25			
j. Waste Profile #	k. Exp. Dat	te	I. Waste Sh Description	pping Name and	100000000000000000000000000000000000000	ntainers	n. Total	o. Unit	
				The second second	No.	Туре	Quantity	Wt/Vol	
3825 13 12625	9/91/20	144	Soil	irdous, Non-Regulated	100	23.05	20	100	
333713 13302	370 1160		JULII.			07	20	Y	
GENERATOR'S CERTIFICATION: I herel	by certify tha	at the al	bove named mat	erial is not a hazardous was	ste as define	ed by 40 C	FR 261 or any a	pplicable	
state law, has been properly described, clawaste is a treatment residue of a previous	assified and i	packag	led, and is in pro-	per condition for transportat	tion according	na to applic	poble regulations	· ANID IS thin	
been deated in accordance with the requir	ements of 40	U CFR	268 and is no lor	iger a hazardous waste as	defined by 4	ortify and w	varrant that the warrant  aste has		
NIA SAIM DE ENSTRE	ON acting as	s alutines	riand agent for th	IE NEAT	03 27 201				
p. Generator Authorized Agent Name (Prin			Signature		r. Date				
II. TRANSPORTER (Gener	rator comp	oletes	lla-b and Tra	nsporter completes llo	c-e)				
a. Transporter's Name and Address:									
1660 Flippin Street Las Vegas Nevada 89 t 15 /	79070 25 4 2	50.10							
b. Phone:	702-645	21-365-985							
ton a the man with			No.	-		1.00	13		
c. Driver Name (Print)		Signatu			e. Date				
III. DESTINATION (Generate	or complet	te Illa-							
Disposal Facility and Site Address:			c. US EPA Nur	nber d. Discrepancy India	cation Space	9:			
Las Venas Nevada 89165									
b.		- 1							
I hereby certify that the above named mate	erial has been	n accer	oted and to the b	est of my knowledge the fo	regoing is tr	ue and acc	curate.		
e. Name of Authorized Agent (Print)  IV. ASBESTOS (Generator of		Signatur			g. Date				
ASBESTOS (Generator c     a. Operator's Name and Address:	completes	ıva-ı	and Operator			- exception (CH)			
a operator o Hamo dila Magicos.				c. Responsible Agency Na	ame and Ad	aress:			
b. Phone: d. Phone:									
e. Special Handling Instructions and Addition	onal Informat	tion:							
f. ☐ Friable ☐ Non-Friable ☐ Both		0/ 5-1-1	1-	W. N					
OPERATOR'S CERTIFICATION: I hereby of	declare that t	% Friat	tents of this cons	% Non-Friable signment are fully and accu	rately descr	ibed above	by the proper s	hinning name	
and are classified, packaged, marked and I national governmental regulations.	labeled/placa	arded, a	and are in all resp	pects in proper condition for	r transport a	ccording to	applicable inter	national and	
g additions.									
g. Operator's Name and Title (Print)	h	Signatu	re		i Doto				
*Operator refers to the company which own	is, leases, op	perates	, controls, or sup	ervises the facility being de	i. Date molished or	renovated	, or the demolitio	n or	
renovation operation or both									



1197186

I. GENERATOR (Generate	or complete	s la-r)									
a. Generator's US EPA ID Number		b.	Manifest Docum	ument Number c. Page 1 of							
d. Generator's Name and Location:				e. Generator's Mailing Address:							
Flevada Enumanmental Resp 5 to Fourth Street f. Phone: Handanan Manada 2001	5 310 100	Some		g. Phone:							
If owner of the generating facility differs fr	om the genera	tor, prov	vide:	- Showard in	THE RALL						
h. Owner's Name:				i. Owner's Phone No.:							
j. Waste Profile #	k. Exp. Date I. Waste Shi Description			ping Name and		tainers Type	n. Total Quantity	o. Unit Wt/Vol			
month on account				dous, Non Regulated							
3825 13 12625	3/31/201	9	301		1	Di	20	Y			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.											
A LA LA LA DI ENVAN	ON acting as	athoris	ed agent for the	WERT	Sililed by 4	0 0111 20					
n Generator Authorized Agent Name (Pri	nt)	a Sia	naturo	The Property of the Party of th		r Doto	13/1-1/2	Land .			
p. Generator Authorized Agent Name (Print) q. Signature r. Date  II. TRANSPORTER (Generator completes Ila-b and Transporter completes Ilc-e)											
a. Transporter's Name and Address:	idtor compi	OtOS III	a-b and man	sporter completes lic-	c)			-			
4660 Florin Street Las Vegas Nevada 89115 b. Phone:	702-645	5849									
	A STATE	1/ 5			1000			1 5 4			
c. Driver Name (Print)	d. S	ignature		e. Date							
III. DESTINATION (Generat				tion Site completes Ille	The second second second						
a. Disposal Facility and Site Address:			c. US EPA Numl			);					
1220 12 Figures 25 Nou	ři .							V The			
Las Vegas Nevada 89165 b.											
I hereby certify that the above named mat	erial has been	accepte	ed and to the be	st of my knowledge the fore	going is tru	ue and acc	curate.				
e. Name of Authorized Agent (Print)	f. Si	gnature		g. Date							
IV. ASBESTOS (Generator	completes I	Va-f ar	nd Operator	complete IVg-i)							
a. Operator's Name and Address:				c. Responsible Agency Nar	ne and Add	dress:					
b. Phone:				d. Phone:							
e. Special Handling Instructions and Addit	ional Informati	on:									
f. ☐ Friable ☐ Non-Friable ☐ Both	9,	6 Friable		% Non-Friable							
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	declare that the	ne conte	ents of this consi	gnment are fully and accura	ately descri transport a	bed above ccording to	by the proper so applicable inter	hipping name, national and			
							HI WAR				
g. Operator's Name and Title (Print)	h, S	ignature			i. Date						
*Operator refers to the company which ow	ns, leases, op	erates, c	controls, or supe	rvises the facility being dem	nolished or	renovated	, or the demolitic	n or			
enovation operation or both											



1197247

I. GENERATOR (Generate	or completes	la-r)						
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number	c. Page 1 of				
d. Generator's Name and Location:			e. Generator's Mailing Address:					
Nevada Environmental Resp	onse Irrist mit							
510 Fourth Street			35 E. Waster Dr. Ste 1550					
f. Phone:  If owner of the generating facility differs from			g. Phone: Chicago, IL 60606					
h. Owner's Name:	on the gonerate	in provide.						
i. Waste Profile #	k. Exp. Date	I Waste Shir	i. Owner's Phone No.:		ntainers	n. Total	o. Unit	
	m Exp. Date	Description		No.	Туре	Quantity	Wt/Vol	
				12-15				
3925 19 12575	5/7/2014	ACM Soil	WORKERS.		DT	20		
-1000 (S (ES(M)	SHARAFIR	CARSTAL STOR		1	1/4	20 Y		
CENEDATOR'S CERTIFICATION, LL								
GENERATOR'S CERTIFICATION: I herel state law, has been properly described, cla	assified and pad	ckaged, and is in pror	er condition for transportati	on according	a to applic	able regulations:	ANID if this	
waste is a treatment residue of a previous been treated in accordance with the requir	ly restricted haz	ardous waste subject	to the Land Disposal Rest	rictions I ce	rtify and w	arrant that the wa	ste has	
		nortzed agent for the ful		tetined by 4	0 CFR 26	1.		
	The second		(15.1					
p. Generator Authorized Agent Name (Prinil. TRANSPORTER (Generation )		q. Signature	concrtor completes lle	-	r. Date			
a. Transporter's Name and Address:	ator complet	les lia-b and mai	isporter completes lic	-e)				
Wendoo								
4660 FlippinStreet, Les Vega	is PN/702-465-	5848						
b. Phone:								
Later branches		Vice Letter						
c. Driver Name (Print)		nature		e. Date				
III. DESTINATION (Generate  a. Disposal Facility and Site Address:	or complete							
Apex Regional Landfill		c. US EPA Num	ber d. Discrepancy Indic	ation Space	9:			
13550 U.S. Highway 93 North	NAME POINT							
b.								
I hereby certify that the above named mate	erial has been a	ccepted and to the be	est of my knowledge the for	egoing is tri	ue and acc	curate.		
e. Name of Authorized Agent (Print)	f. Sign		1 1 102 20	g. Date				
IV. ASBESTOS (Generator o	completes IV	a-f and Operator						
a. Operator's Name and Address:	n Inc.		c. Responsible Agency Na	me and Ad	dress:			
5428 Windy Road	700 0 10 04	200	PO Box 390					
Las Vegas, NV-89165 702-243-2500 d. Phone:					702	759-0660		
e. Special Handling Instructions and Addition	onal Information							
	The sale							
f. Friable Non-Friable Both	% F	riable	% Non-Friable	-1-1				
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and I national governmental regulations.	labeled/placarde	ed, and are in all resp	ects in proper condition for	transport a	bed above ccording to	by the proper shi applicable interna	pping name, ational and	
g. Operator's Name and Title (Print)	h. Sigr	nature		i. Date				
*Operator refers to the company which own renovation operation or both	ns, leases, opera	ates, controls, or supe	ervises the facility being der	molished or	renovated	, or the demolition	or	
Total of operation of both								



1197203

I. GENERATOR (Generate	or completes l	a-r)							
a. Generator's US EPA ID Number		b. Manifest Docum	c. Page 1 of						
d. Generator's Name and Location:			e. Generator's Mailing Address:						
Flevada Environmental Resp. 510 Fourth Street	orse Inist (NEF		35.5 Washer Dr. Ste. 1950						
f. Phone: Henderson, Nevada 8901			g. Phone: Chic sgo, IL 60606						
If owner of the generating facility differs fr	om the generator,	provide:							
h. Owner's Name:			i. Owner's Phone No.:	31	2,499,28				
j. Waste Profile #	k. Exp. Date		pping Name and	m. Cor	ntainers	n. Total	o. Unit		
		Description		Туре	Quantity	Wt/Vol			
		(ton Hazar	dous, Non Regulated			and the same			
3925 19 12625	3/31/2014	Soil		1	DI	20	4		
				1					
		A CONTRACTOR OF THE PARTY OF TH		The second					
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl. waste is a treatment residue of a previous	assified and packa ly restricted hazar	aged, and is in prop dous waste subiect	er condition for transportati to the Land Disposal Restr	on accordin	g to applic	cable regulations;	ANID if this		
been treated in accordance with the require	ements of 40 CF	208 and is no long	ger a hazardous waste as o	lefined by 4	0 CFR 26	1.			
f 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 1249				11/2 14 / 12/1/22				
p. Generator Authorized Agent Name (Prin		. Signature	r. Date						
II. TRANSPORTER (Gener	rator complete	s Ila-b and Tran	sporter completes Ilc	-e)					
a. Transporter's Name and Address:									
4550 Flippin Street									
b. Phone:	702-645-584	18							
A CONTRACTOR OF THE PARTY OF TH		3 Wilds							
c. Driver Name (Print)	d. Signa			e. Date					
III. DESTINATION (Generate	or complete III	a-c and Destina	tion Site completes II	ld-g)					
a. Disposal Facility and Site Address:		c. US EPA Num	ber d. Discrepancy Indic	ation Space	):				
Las Vagas Nevada 69 165									
							1-3-11		
b.  I hereby certify that the above named mate	arial has been acc	contact and to the he	ot of my limewise deaths for						
I hereby certify that the above named mate	eriai rias beeri acc	epted and to the be	ist of my knowledge the for	egoing is tru	ie and acc	curate.			
a Name of Authorized Agent (Drint)		Participant of the Control of the Co							
e. Name of Authorized Agent (Print)  IV. ASBESTOS (Generator of	f. Signa			g. Date					
	completes iva-	and Operator							
a. Operator's Name and Address:			c. Responsible Agency Na	me and Add	dress:				
b. Phone:									
e. Special Handling Instructions and Additional Information:									
	and Additional Monitoria								
f. Friable Non-Friable Both	% Fri	iable	% Non-Friable						
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	declare that the clabeled/placarded	ontents of this cons , and are in all resp	ignment are fully and accur ects in proper condition for	ately descri transport a	bed above ccording to	by the proper shapplicable interr	nipping name, national and		
						TO IT IN IT			
g. Operator's Name and Title (Print)	h. Signa	iture		i Dota					
*Operator refers to the company which own	ns, leases, operate	es, controls, or supe	rvises the facility being der	i. Date nolished or	renovated	or the demolition	n or		
renovation operation or both						,			



1197201

I. GENERATOR (Generate	or comp	oletes la-r	f)					
a. Generator's US EPA ID Number		b	b. Manifest Docum	nent Number		c. Page	1 of	
d. Generator's Name and Location:				e. Generator's Mailing A	ddress:			
Ne ada Fortschied frest	otise In	of (NERT)		5/5 £2 00-5-1	Larly Ste	rations.		
f. Phone: Henderson, Nevada 8901				g. Phone: Che ago, II				
If owner of the generating facility differs fr				g. Filone.	- 1000			
h. Owner's Name:				i. Owner's Phone No.:	9		(%)	
j. Waste Profile #	k. Exp. [	Date		pping Name and		ntainers	n. Total	o. Unit
			Description		No.	Туре	Quantity	Wt/Vol
3825 13 12625	253			dous, Non-Regulated		1		
3020 13 12020	3.30	知识	204		1	PI	50	Y
The state of the s				TELL LINE				
			Harris A			1		
	- 100							
GENERATOR'S CERTIFICATION: I here state law, has been properly described, clause tracking a tracking of the state law.	by certify	that the about	ove named mater	rial is not a hazardous was	te as define	d by 40 Cl	FR 261 or any ap	plicable
waste is a treatment residue of a previous	siv restricte	ed nazardoi	US Waste subject	to the Land Dienocal Roct	trictione I co	artifu and w	correct that the un	AND, if this aste has
been treated in accordance with the requir	ements of	f 40 CFR 2	68 and is no long	er a hazardous waste as	defined by 4	0 CFR 26	1.	
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							TYLE C	25
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Generator Authorized Agent Name (Printle III.)			ignature			r. Date		
II. TRANSPORTER (General a. Transporter's Name and Address:	ator cor	mpietes	la-b and Iran	sporter completes lic	;-e)			
4660 Flippin Street								
Las Vegas Nevada 89115	702-6	645-5848	1/					
b. Phone:		K		Bull and the		, ,		
(760)		G	55		10	13/1	3	
c. Driver Name (Print)  III. DESTINATION (Generate		d. Signatur			e. Date	7		
III. DESTINATION (Generate  a. Disposal Facility and Site Address:	or comp		c. US EPA Numb					24.37
1933Y N.S. Liduway, 85 Novi	9		C. US EFA NUM	ber   d. Discrepancy mulc	ation Space	<b>a</b> :		
Las Vegas Nevada 89 165		- 3						
b.	1 1 1 2 2 5							
I hereby certify that the above named mate	erial has b	een accept	ed and to the bes	st of my knowledge the for	egoing is tru	ue and acc	urate.	
e. Name of Authorized Agent (Print)		( O'					Carrie and the	
IV. ASBESTOS (Generator of		f. Signature		complete IV(a-i)	g. Date			
a. Operator's Name and Address:	Ompro	30 174 14		c. Responsible Agency Na	ame and Ad	drace:		
				o. Neoponololo / Igono, 110	ine and Ad	uress.		
b. Phone: e. Special Handling Instructions and Additional Additional Property of the Property	anal Infor	motion		d. Phone:			-	
e. Special Hariding Instructions and Addition	onai Imon	mation:						
f. Friable Non-Friable Both		% Friable	10	O/ Non Eviable	1			
OPERATOR'S CERTIFICATION: I hereby	declare th	nat the conte	ents of this consid	% Non-Friable gnment are fully and accur	rately descri	ibed above	by the proper sh	inning name
and are classified, packaged, marked and I national governmental regulations.	abeled/pla	acarded, an	nd are in all respe	ects in proper condition for	transport a	ccording to	applicable intern	ational and
material governmental regulations.								
g. Operator's Name and Title (Print)		h. Signature			Doto			
*Operator refers to the company which own	is, leases	, operates,	controls, or super	rvises the facility being der	i. Date molished or	renovated	or the demolition	or
renovation operation or both						1		200



1197202

I. GENERATOR (Generate	or comple	etes la-r	)					
a. Generator's US EPA ID Number			. Manifest Docur	ment Number		c. Page	1 of	
d. Generator's Name and Location:				e. Generator's Mailing A	ddress:			
Flexada Environmental Resp \$10 Pourth Street	onse Inus	(FEP1)						
f. Phone:  If owner of the generating facility differs fr	om the gen	arator pro	wide	g. Phone:	kertir Sia 60606	TEXA		
	on the gen	erator, pro	ovide.					4-10
h. Owner's Name: j. Waste Profile #	Is Even De	4-	1.00	i. Owner's Phone No.:		12-498-28	000	
J. Waste Frome #	k. Exp. Da	ate	Description	ping Name and	M. Co	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
			Block I beauti	and the real real				110 101
3825 19 12625	3/31/3		Soli	dous, Non Regulated		DT	30	Y
OFNEDATORIO OFFICIALIZA								
GENERATOR'S CERTIFICATION: I hered state law, has been properly described, clawaste is a treatment residue of a previousl been treated in accordance with the requirements.	y restricted ements of 4	hazardou 0 CFR 26	s waste subject	to the Land Disposal Restr er a hazardous waste as c	on accordin	g to applic	able regulations;	oplicable AND, if this easte has
		z admini	rechagers for the	112.83		1 1	The same of	
p. Generator Authorized Agent Name (Prin		q. Sig	ınature			r. Date		
II. TRANSPORTER (Gener  a. Transporter's Name and Address:	ator com	oletes II	a-b and Trans	sporter completes lic	-e)	1		
4660 Flicoin Street b. Phone:	702.64	5-5948						
c. Driver Name (Print)	d	Signature	MA	Ju,	- D-1	101	3 13	
III. DESTINATION (Generate				ion Site completes III	e. Date			
a. Disposal Facility and Site Address:	· comple	0 1110	. US EPA Numb	per d. Discrepancy Indica				
Apex Regional Landfill 1.5004 (1.5. highway 93 njohn Las Vogas Nevada 50 (65) b.								
I hereby certify that the above named mate	rial has bee	n accepte	ed and to the bes	t of my knowledge the fore	going is tru	e and acc	urate.	
							The House	
e. Name of Authorized Agent (Print)  IV. ASBESTOS (Generator co		Signature	10		g. Date			
IV. ASBESTOS (Generator co a. Operator's Name and Address:	ompletes	iva-t ar						
and planted of the pl			C	c. Responsible Agency Nar	ne and Add	ress:		
b. Phone:				Dhona				
e. Special Handling Instructions and Additio	nal Informa	tion:		l. Phone:	PIN			
f. ☐ Friable ☐ Non-Friable ☐ Both	-	% Friable		/ Non Frield				
OPERATOR'S CERTIFICATION: I hereby d and are classified, packaged, marked and la national governmental regulations.	eclare that	the conter	ate of this consis	6 Non-Friable nment are fully and accurates in proper condition for the	ately describ transport ac	ed above cording to	by the proper sh applicable intern	ipping name, ational and
					T En			
g. Operator's Name and Title (Print)	h. 8	Signature			i. Date			
*Operator refers to the company which owns renovation operation or both	s, leases, op	erates, co	ontrols, or superv	vises the facility being dem	olished or re	enovated,	or the demolition	or



1197200

I. GENERATOR (Generat	or com	plete	s la-r)						
a. Generator's US EPA ID Number				Manifest Docum	nent Number		c. Page	1 of	
d. Generator's Name and Location:	7777				e. Generator's Mailing A	Address:			
Flexada Engronmental Piss 510 Fourth Street	porise Tr	nust th	EPT		75 F Wa	April Sie			
f. Phone: Henderson, Nevada 600	8 910	193	25CET		g. Phone: Chicago				
If owner of the generating facility differs for	rom the g	genera	tor, provi	ide:	9 1 10 10 10 10 10 10 10 10 10 10 10 10 1	3000000	-		
h. Owner's Name:					i. Owner's Phone No.:	9	12 498 29		
j. Waste Profile #	k. Exp.	Date		I. Waste Ship	ping Name and		ntainers	n. Total	o. Unit
				Description		No.	Туре	Quantity	Wt/Vol
Service and Author					dors, Hon Regulated				
3625 13 12625	33	1/201	9				DI	20	Y
						100	-11		
							3.17		
GENERATOR'S CERTIFICATION: Lberg	by cortifi	(that t	bo obove	named and					
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a provious	dssilled :	3000003	ickanen	and is in prope	or condition for transportation	tion enamelia	- 1		
									ste has
been treated in accordance with the requi	rements	01 40 0	OFR 208	and is no long	er a nazardous waste as	defined by 4	0 CFR 26	1,	
p. Generator Authorized Agent Name (Pri	-4\		0.					10 1 5 1	
		mple	q. Signa			Section 1	r. Date		
II. TRANSPORTER (Gene  a. Transporter's Name and Address:	rator CC	omple	etes lia-	b and Iran	sporter completes lic	c-e)			
4660 Flooin Street									
Las Vegas Neveda 691 (5	702	645.5	5848						
b. Phone:			-	10					
BIG BATTICE			Les	Clar		1/	1 12	-13	
c. Driver Name (Print)			gnature			e. Date			
III. DESTINATION (Generat	or com	plete				lld-g)			
a. Disposal Facility and Site Address:	7		C.	US EPA Numb	er d. Discrepancy India	cation Space	):		
Las Vegas Nevada 59105			14.5						
b.									
I hereby certify that the above named mate	erial has	been a	accepted	and to the bes	t of my knowledge the for	regoing is tru	ie and acc	urata	
					e or my knowledge the lor	regoing is the	e and acc	urate.	
e. Name of Authorized Agent (Print)		f. Sign	nature			a Data			
IV. ASBESTOS (Generator o	complet			Operator o	omplete IVa-i)	g. Date	1		
a. Operator's Name and Address:	-1 -				Responsible Agency Na	ame and Add	iress.		
					gency in	and and ride	., 000.		
b. Phone:	11.5			0	I. Phone:				
e. Special Handling Instructions and Addition	onal Intol	rmation	n:				Han -		
4 D 5 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-			Control of the second				
f. Friable Non-Friable Both	declare t	% l	Friable	s of this consis	6 Non-Friable				
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and linational governmental regulations.	labeled/p	lacard	ed, and a	are in all respen	cts in proper condition for	transport ac	cording to	by the proper ship applicable interna	oping name, ational and
g. Operator's Name and Title (Print)		h. Sia	nature			i. Date			
*Operator refers to the company which own renovation operation or both	s, leases	opera	ates, cor	ntrols, or supen	vises the facility being der	molished or i	renovated,	or the demolition	or
renovation operation or both	-	-						The second second	CONT.



1197246

I. GENERATOR (Generation	or comp	letes la	a-r)						
a. Generator's US EPA ID Number			b. Manifest Doo	ument N	lumber		c. Page	1 of	
d. Generator's Name and Location:				e. G	enerator's Mailing A	ddress:			_
N 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Ne ada Enurormental Prest	ionse Ins	al traffi							
f. Phone: 510 Fourth Street				a P	hone:	er Or Se			
If owner of the generating facility differs fr	om the ge	nerator.	provide:	9.1	tituengo, it	CONTRACTO			
h. Owner's Name:					vner's Phone No.:		(Dujor Da		
j. Waste Profile #	k. Exp. [	Date	I. Waste SI Description		lame and		ntainers	n. Total	o. Unit
		_	Description	4		No.	Туре	Quantity	Wt/Vol
							13 15		
						No. of the			
3925 10 12575	5/7/12	014	ACA4So				DT	20 Y	
							1000		
GENERATOR'S CERTIFICATION: I here	by cortify	that the	shave named me	tanial ia		1	11 10 0		
state law, has been properly described, cla	assified ar	nd packa	aged, and is in pro	ner con	dition for transportati	on accordin	a to applic	cable regulations:	ANID if this
waste is a treatment residue of a previous	IV restricte	ed hazar	dous waste subje	ct to the	Land Disposal Rest	rictions I co	rtify and w	varrant that the wa	ste has
been treated in accordance with the requir	rements of	f 40 CFF	R 268 and is no lo	nger a h	azardous waste as o	defined by 4	0 CFR 26	1.	oto nao
A STATE OF ENVIRO	OH acting	as author	rized agent for the I	IERT		-	1779	Part Town	
p. Generator Authorized Agent Name (Prin			Signature					The Tell Land	
					range to the state of		r. Date		
II. TRANSPORTER (General a. Transporter's Name and Address:	ator cor	Tiplete	s lia-b and Tr	anspor	ter completes lic	-e)			
Wendoo									
4660 FlippinStreet, Las Vega	E HAVINE	405-58							
b. Phone:		- 7	7-7	-					
Brad BACTTO		1/1c	2011/20	111		1	1-3	- 17	
c. Driver Name (Print)		d. Signa	ature			e. Date			
III. DESTINATION (Generate	or comp	lete IIIa	a-c and Destin	ation :	Site completes II				
a. Disposal Facility and Site Address:			c. US EPA Nu		d. Discrepancy Indic				
Abe: Regional Landfill			S. GO Er / TITE	moci	d. Discrepancy mulc	ation Space			
	- Parison								
b. 19550 U.S. Highway 93 Florti		69 105							
I hereby certify that the above named mate	erial has h	een acc	ented and to the	post of n	ay knowledge the fer	ogolog le te			
, and the above named mate	J. Idi IIdo D	Jon acc	opted and to the	Jest UI II	ly knowledge the for	egoing is tru	de and acc	curate.	
		= 1							
e. Name of Authorized Agent (Print)		f. Signat				g. Date			
IV. ASBESTOS (Generator of	complete	es IVa-	f and Operato	r comp	lete IVg-i)		14 - 7		
a. Operator's Name and Address:					sponsible Agency Na	me and Add	dress:		
				15007.0507	CHMAINEREASA	SAME LINE	in District		
6428 Windy Road					PO 80x 390	2			
b. Phone: Las Vegas, NV 89165	702-2	49-250		d Dhe	Las Vegas,		702	L759-0660	
e. Special Handling Instructions and Addition	onal Inforr	nation:		d. Pho	one:				
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(85)		100			The market				
f. Friable Non-Friable Both	do de	% Fria	able	% No	n-Friable				
OPERATOR'S CERTIFICATION: I hereby	declare th	at the co	ontents of this cor	signmer	nt are fully and accur	ately descri	bed above	by the proper shi	pping name.
and are classified, packaged, marked and I national governmental regulations.	abeled/pla	acarded,	, and are in all res	pects in	proper condition for	transport a	ccording to	applicable interna	ational and
								<del></del>	
			The second						
g. Operator's Name and Title (Print)	1	n. Signat	ture			i. Date			
*Operator refers to the company which own renovation operation or both	is, leases,	operate	es, controls, or su	pervises	the facility being der	nolished or	renovated	, or the demolition	or
removation operation of both									



1197185

i. GENERATOR (Generate	or completes la						
a. Generator's US EPA ID Number		b. Manifest Docu	iment Number	Harries	c. Page	e 1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:			
f. Phone: Danderson Research				15 E Wante	a Dr. Ste		
f. Phone:  If owner of the generating facility differs from the generating facility d	om the generator	49/3 24(X)	g. Phone:	Chegago II t	50506		
The same property of the same same same same same same same sam	on the generator,	provide.					PARTY IN
h. Owner's Name: j. Waste Profile #			i. Owner's Phone No.			2-498-26(0)	
j. waste Florite #	k. Exp. Date	I. Waste Shi Description	pping Name and		ntainers	n. Total	o. Unit
		Description		No.	Туре	Quantity	Wt/Vol
		P	on Hazardous, Hen Re	balakee			
3625 13 12625		and the second s		9			-
			310		1	101	20 4
GENERATOR'S CERTIFICATION: 1 bank	214 portification of						
GENERATOR'S CERTIFICATION: I herebestate law, has been properly described, clawaste is a treatment residue of a previous been treated in accordance with the require	y restricted hazard ements of 40 CFR	dous waste subject 268 and is no long	to the Land Disposal Reger a hazardous waste a	tation according	ig to applic	able regulations	applicable s; AND, if this waste has
		g as authorized ago	ent for the NERT,			OF F	1/31 119
p. Generator Authorized Agent Name (Prin		Signature			r. Date		- Fair
II. TRANSPORTER (General	ator completes	s lla-b and Tran	sporter completes	llc-e)	1. 5010		
a. Transporter's Name and Address:					H		
4560 Flippin Street							
Las Veñas Navada P	9115 700-4	545-5848					
b. Phone:	1 44-24	e technology					
19 10 19 A = 1 11C				10	HA TO	1-12	
c. Driver Name (Print)	d. Signat			e. Date		- 1	
III. DESTINATION (Generato	or complete Illa	a-c and Destina	tion Site completes	IIId-a)			
a. Disposal Facility and Site Address:		c. US EPA Num	ber d. Discrepancy Inc		e:		
Apex Regional Landfi 1220 Line Highway	ll Mariana		The state of the s				
Las Vegas Nevada B							
b.							
I hereby certify that the above named mater	rial has been acce	epted and to the be	st of my knowledge the f	oregoing is tru	e and acc	urate.	
e. Name of Authorized Agent (Print)	f. Signatu	ire		g. Date	_		
IV. ASBESTOS (Generator co	ompletes IVa-f	and Operator	complete IVa-i)				
a. Operator's Name and Address:	Y II.		c. Responsible Agency I	Name and Add	Iress.		
		DEN'S					
b. Phone:			d. Phone:				
e. Special Handling Instructions and Addition	nal Information:				-		
f. Friable Non-Friable Both	% Frial	ble	% Non-Friable				
OPERATOR'S CERTIFICATION: I hereby do and are classified, packaged, marked and la national governmental regulations.	eclare that the con beled/placarded, a	ntents of this considered are in all respective.	gnment are fully and accepts in proper condition for	urately describ or transport ac	ed above cording to	by the proper si applicable inter	hipping name, national and
g. Operator's Name and Title (Print)	h. Signatu	ire		1.0			
Operator refers to the company which owns	, leases, operates	, controls, or super	vises the facility being d	i. Date emolished or r	enovated	or the demolitic	n or
renovation operation or both	Test Time I I		, 99		,	o. dio delliolido	11 01



1197193

g. Operator's Name and Title (Print)  h. Signature  i. Date  *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or repoyated, or the demolished or repoyated or repoyated or repoyated, or the demolished or repoyated o	<ol> <li>GENERATOR (Generate</li> </ol>	or complete	es la-r)						
## Description   Property   Prope	a. Generator's US EPA ID Number		b.	Manifest Docur	ment Number		c. Page	1 of	
## Phone:    Phone:	d. Generator's Name and Location:				e. Generator's Mailing A	ddress:			
GENERATOR'S CERTIFICATION. I hereby certify that the above named material is not a hazardous waste as defined by 40 CFF 281 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable equilations.  GENERATOR'S CERTIFICATION. I hereby certify that the above named material is not a hazardous waste as defined by 40 CFF 281 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable equilations. AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions + Certify and warrant that the waste has been trained in accordance with the requirements of all of CFF 281 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportations + Certify and warrant that the waste has several properly described accordance with the requirements of all of CFF 281 or any applicable state law, has been properly described hazardous waste subject to the Land Disposal Restrictions + Certify and warrant that the waste has certify and warrant that the waste has certify and subject to the Land Disposal Restrictions + Certify and warrant that the waste has certify and certify and warrant that the waste has certify and certify and warrant that the waste has certify and certify and warrant that the waste has certify and certify and certify and certify and certify and certify and certify and certify and certify and certifications + Certify and certifications + Certify and certifications + Certify and certifications + Certify and certifications + Certify and certifications + Certify and certifications + Certify and certifications + Certify and certification + Certify and certification + Certify and certification + Certification + Certification + Certification + Certification + Certification + Certification + Certification + Certification	f. Phone: 510 Fourth Street				35 E. Wao	ker Dr. Ste	1550		
Waste Profile #   K. Exp. Date   I. Waste Shipping Name and   Mo. Type   Quantity   WWVol	If owner of the generating facility differs fr	om the genera	ator, pro	vide:		- CARRAD		THE PERSON	
Liviate Shipping Name and Mocordanets in Total Cuntity Wilvol  Description  Exp. Date  Liviate Shipping Name and Mocordanets in Total Cuntity Wilvol  Description  Description  Liviate Shipping Name and Mocordanets in Total Cuntity Wilvol  Description	h. Owner's Name:				i. Owner's Phone No.:	- 4			
BENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a possible described and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a possible described. Classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a possible described. Proper a hazardous visuale as defined by 40 CFR 261 or any applicable that waste has been treated in accordance with the requirements of 40 CFR 263 and is no transporter stated by 40 CFR 261.  I. TRANSPORTER (Generator completes iii.a-b and Transporter completes iii.c-b.  I. TRANSPORTER (Generator completes iii.a-b and Transporter completes iii.c-b.  II. DESTINATION (Generator complete lila-c and Destination Site completes IIId-g)  a. Disposal Facility and Site Address:  C. US EPA Number d. Discrepancy indication Space:  III. DESTINATION (Generator completes IVa-f and Operator complete IVg-i)  a. Disposal Facility and Site Address:  C. US EPA Number d. Discrepancy indication Space:  IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)  a. Operator's Name and Address:  C. Responsible Agency Name and Address:  C. Responsible Agency Name and Address:  C. Responsible Agency Name and Address:  C. Responsible Agency Name and Address:  D. Phone:  d. Phone:  d. Phone:  e. Special Handling Instructions and Additional Information:  II. Friable Non-Friable Both Seriable Seventh and a papicable international and reloaded povernmental regulations.  J. Data Complete Seventh and the described above by the proper shipping name and to classific the constitution of the complete Seventh and the described spectral papicable internati	j. Waste Profile #	k. Exp. Date					THE PARTY SELECT	THE STATE OF THE S	o. Unit
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation to receive the conditions of				Description		No.	Туре	Quantity	Wt/Vol
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation to receive the conditions of				Non Hazar	Horris Klan Republished				bi v V
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations. AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 263 and is no longer a hazardous waste as defined by 40 CFR 261.  GENERATOR'S CERTIFICATION: I hereby described agent for the ILIET.  J. Generator Authorized Agent have (Print)  Q. Signature  II. TRANSPORTER (Generator completes lia-b and Transporter completes lic-e)  a. Transporter's Name and Address:  4600 Finon Streat  b. Phone:  C. Driver Name (Print)  J. Signature  O. Signature  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. US EFA Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Number  J. Discrepancy Indication Space:  C. Driver Numbe	9825 19 12625	3/31/201			A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T		577	799	100
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.    P. Generator Authorized Agent Name (Print)							1/1	20	7
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.    P. Generator Authorized Agent Name (Print)									
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.    P. Generator Authorized Agent Name (Print)				1			1 5 7 7		
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.  P. Generator Authorized Agent Name (Print)  Q. Signature  II. TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Disposal Facility and Site Address:  C. Driver Name (Print)  J. Signature  OESTINATION (Generator complete illa-c and Destination Site completes illd-g)  a. Disposal Facility and Site Address:  C. US EPA Number  J. Discrepancy Indication Space:  OESTINATION (Generator completes illa-b and to the best of my knowledge the foregoing is true and accurate.  II. DESTINATION (Generator completes illa-b and to the best of my knowledge the foregoing is true and accurate.  IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)  a. Operator's Name and Address:  C. Responsible Agency Name and Address:  C. Responsible Agency Name and Address:  D. Phone:  OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and order classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and order classified, packaged, marked and labe									
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.    P. Generator Authorized Agent Name (Print)									
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.  P. Generator Authorized Agent Name (Print)  Q. Signature  II. TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Transporter's Name and Address:  OED TRANSPORTER (Generator completes ila-b and Transporter completes ilc-e)  a. Disposal Facility and Site Address:  C. Driver Name (Print)  J. Signature  OESTINATION (Generator complete illa-c and Destination Site completes illd-g)  a. Disposal Facility and Site Address:  C. US EPA Number  J. Discrepancy Indication Space:  OESTINATION (Generator completes illa-b and to the best of my knowledge the foregoing is true and accurate.  II. DESTINATION (Generator completes illa-b and to the best of my knowledge the foregoing is true and accurate.  IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)  a. Operator's Name and Address:  C. Responsible Agency Name and Address:  C. Responsible Agency Name and Address:  D. Phone:  OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and order classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and order classified, packaged, marked and labe									
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p. Generator Authorized Agent Name (Print) q. Signature r. Date  II. TRANSPORTER (Generator completes iia-b and Transporter completes iic-e)  a. Transporter's Name and Address:  4600 Flinom Street b. Phone:  c. Driver Name (Print) d. Signature e. Date  J. Discrepancy Indication Space:  c. Driver Name (Print) d. Signature e. Date  III. DESTINATION (Generator complete Iiia-c and Destination Site completes IIId-g)  a. Disposal Facility and Site Address:  c. US EPA Number d. Discrepancy Indication Space:  J. Discre	waste is a treatment residue of a previous	ly restricted ha	ackageu	s waste subject	to the Land Disposal Boot	on according	g to applic	able regulations;	
p. Generator Authorized Agent Name (Print)  II. TRANSPORTER (Generator completes lia-b and Transporter completes lic-e)  a. Transporter's Name and Address:  4660 Flicon Streat b. Phone:  c. Driver Name (Print)  d. Signature  e. Date  III. DESTINATION (Generator complete lilla-c and Destination Site completes lild-g) a. Disposal Facility and Site Address:  c. US EPA Number  d. Discrepancy Indication Space:  b. Thereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.  IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address:  c. Responsible Agency Name and Address:  c. Responsible Agency Name and Address:  d. Phone: e. Special Handling Instructions and Additional Information:  f. Friable Non-Friable Both Friable Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	The reduit of the reduit	ements of 40	CFR 20	o and is no long	er a nazardous waste as o	defined by 4	0 CFR 26	1.	asie nas
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*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or repoyated, or the demolished or repoyated or repoyated, or the demolished or repoyated or repoya	g. Operator's Name and Title (Print)	h Sic	nature			I Date			
	*Operator refers to the company which own renovation operation or both	s, leases, ope	rates, co	ontrols, or super	vises the facility being den	nolished or i	enovated,	or the demolition	or



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I. GENERATOR (Generato	or comp	ieles i	a-1)					
a. Generator's US EPA ID Number			b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location:				e. Generator's Ma	ailing Address:			I DANS
Meyada Environmental Resp	onse In	ist MER	211	S. C. Sanda, and S. C.				
510 Fourth Street				35 6	Waster Dr 5	le 1550		
f. Phone: Henderson, NV 89015	312-			g. Phone:	ago, IL 60606			
If owner of the generating facility differs from		enerator	provide:	g. i fiono.				
in owner or the generating racinty amore in	om the ge	Silorator	, provido.			312-498-28		
h. Owner's Name:				i. Owner's Phone			90	
j. Waste Profile #	k. Exp.	Date		oping Name and		Containers	n. Total	o. Unit
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GENERATOR'S CERTIFICATION: I here								
state law, has been properly described, cl	assified a	nd pack	raged, and is in pro	per condition for tran	sportation accor	ding to applic	cable regulations;	AND, if this
waste is a treatment residue of a previous been treated in accordance with the requi								iste has
been treated in accordance with the requi	rements	01 40 CF	R 200 and is no for	ger a nazardous wa	iste as defined b	y 40 CFR 26	1.	
MI 2 VINA						733		12
p. Generator Authorized Agent Name (Pri	nt)	C	q. Signature		-	r. Date		
II. TRANSPORTER (Gene	and the same of the same			nenorter comple	tes IIc-e)			THE PARTY
a. Transporter's Name and Address:	iator cc	impiete	33 IId-D alla IIa	risporter comple	103 110-0)			
, wetoon								
4560 FlippinStreet, Las Vega	29 NV 70	2-465-5	5848					
b. Phone;		1	>				1	
HAM!	700	-4	MMM	1		113	112	
c. Driver Name (Print)		d. Sign	nature	-	e. Dat	te	11-7	
III. DESTINATION (Generat	or com			ation Site comp	letes IIId-a)			
a. Disposal Facility and Site Address:	.01 00111	picto ii	c. US EPA Nui		cy Indication Sp	300.		
a. Disposal I acility and Site Address.			C. OS LFA NUI	ilbei u. Discrepai	icy mulcation op	ace.		
19550 U.S. Highway 99 Nort	th LV M	89165						
b.							201100-2200	
I hereby certify that the above named mat	erial has	been ac	cepted and to the b	est of my knowledge	e the foregoing is	s true and ac	curate.	
								7 15 1
e. Name of Authorized Agent (Print)		f. Signa	ature		g. Dat	e		
IV. ASBESTOS (Generator	complet	THE RESERVE OF THE PERSON NAMED IN		complete IVa i)			The Market	
	comple	105 IVE	and Operator		A CONTRACTOR OF THE PARTY OF TH	ipally District		
a. Operator's Name and Address:				c. Responsible Ag		Address:		
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Las Vegas, NV 89165	702	243-25	LAD.	LRD:	Vegas, NV		2-759-0660	
b. Phone:				d. Phone:				
e. Special Handling Instructions and Addit	ional Info	rmation:					V 12 1 40 =	
								20 1600
f   Frieble     New Frieble     Delle		0/ =	riable	0/ Non Exists				
f. Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby	declara		riable	% Non-Friable	nd accurately de	scribed above	e by the proper at	ninning name
and are classified, packaged, marked and								
national governmental regulations.	iabolod/	.aoarae	o, and are maintes	pooto in propor conc	and to transpo	dooording	o applicable litteri	auditur aria
								1000
g. Operator's Name and Title (Print)		h. Sign			i. Date			20000000
*Operator refers to the company which ow	ns, lease	s, opera	ites, controls, or sur	pervises the facility b	eing demolished	or renovate	d, or the demolition	n or
renovation operation or both		A CONTRACT		The second second second				



1197187

I. GENERATOR (Generati	or completes	ia-r)					
a. Generator's US EPA ID Number		b. Manifest Doc	ument Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing Ad	dress:	-		
Mevada Engronmental Resp 510 Fourth Street f. Phone: Henderson, Nevada 890 I			a Phone: Classes				
If owner of the generating facility differs fr	om the generato	or provide:	g. Phone: Chicago II.	CARNO.			
	on the generate	ii, provide.			2 498 28		
h. Owner's Name: j. Waste Profile #	L Eve Data	I Wasta Ch	i. Owner's Phone No.:				
J. Waste Flome #	k. Exp. Date	Description	ipping Name and	No.	Type	n. Total Quantity	o. Unit Wt/Vol
					.,,,,,	- Cuarring	***************************************
		Hon Haz	antous, Flori Regulated				
3825 (3 (2625	35317,014	Soil		4	DI	20	Y
							3
				-			
GENERATOR'S CERTIFICATION: I have	hu cortifu that th	a abaya namad ma	torial is not a boundary		11. 10.01	-D 004	H T
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl	assified and pac	kaged, and is in pro	terial is not a nazardous wast	e as define	a to applic	able regulations:	AND if this
waste is a treatment residue of a previous	sly restricted haza	ardous waste subie	ct to the Land Disposal Restri	ctions. I ce	rtify and w	arrant that the wa	ste has
been treated in accordance with the requi	rements of 40 CI	FR 268 and is no lo	nger a hazardous waste as d	efined by 4	0 CFR 26		
A TO SHAAA DI KINGI	ICIN acting as au	thorized agent for t	Am HENT				
p. Generator Authorized Agent Name (Pri	nt)	q. Signature			r. Date		
II. TRANSPORTER (Gene			ensporter completes lle	0)	1. Date		-
a. Transporter's Name and Address:	rator complet	os na-b and me	anaporter completes lic-	(c)			
Werdoo							
4660 Flippin Street							
b. Phone:	702-645-58	148					
KANAI		KNII	16	11	ND		
INVEN		MOVELA	W	16	JID	113	
c. Driver Name (Print)	d. Sig			e. Date			
III. DESTINATION (Generat	or complete I			d-g)			
a. Disposal Facility and Site Address:		c. US EPA Nu	mber d. Discrepancy Indica	ation Space	):		
Ape. Regional Landill Juan	n						-
Las Vegas Nevada 89 (65							-
b.							
I hereby certify that the above named mat	erial has been a	ccepted and to the I	pest of my knowledge the fore	egoing is tru	ue and acc	urate.	
e. Name of Authorized Agent (Print)	f. Sign	ature		g. Date			
IV. ASBESTOS (Generator	completes IVa	a-f and Operato	r complete IVa-i)				
a. Operator's Name and Address:			c. Responsible Agency Nar	me and Add	dress.		
			o. Hoopensiero rigoney ivai	no and rat	u1000.		
b. Phone:			d. Phone:				
e. Special Handling Instructions and Additi	ional Information	1	d. I none.				
f   Frights   Non-Frights   D. C.	00.0	-dubia	0/ N = = = 11				
f. Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby	declare that the	riable	% Non-Friable	atoly dear	had char	bu the server !	In call to the call of the cal
and are classified, packaged, marked and	labeled/placarde	ed, and are in all res	spects in proper condition for	transport a	ccording to	applicable intern	ational and
national governmental regulations.	Production		The second of th		or amy to	Sphiodolo IIItelli	adollar alla
		CAME TO LE					
g. Operator's Name and Title (Print)	h. Sigr	nature		I Data			
*Operator refers to the company which ow	ns, leases, opera	ates, controls, or su	pervises the facility being den	i. Date	renovated	or the demolition	or
renovation operation or both	Part I		and a sum of the sum o			o. the demonder	



1197195

<ol> <li>GENERATOR (Generate</li> </ol>	or completes la	a-r)					
a. Generator's US EPA ID Number	THE THE	b. Manifest Docum	nent Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing Ad	dress:			
He ada Environmental Resp 510 Fourth Street f. Phone: Userdoman Novada 2001			g. Phone:				
If owner of the generating facility differs from			210-432-11-				THE IN
h. Owner's Name:			i. Owner's Phone No.:	91	2-498-28		
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	ping Name and	m. Cor No.	tainers Type	n. Total Quantity	o. Unit Wt/Vol
		hion Hazar	dous, Non-Regulated				
3825 13 12625	3/31/2014	Sol		1	DT	20	Y
GENERATOR'S CERTIFICATION: I here	by certify that the	above named mate	rial is not a hazardous wast	te as define	d by 40 C	FR 261 or any a	pplicable
state law, has been properly described, cla	assified and pack	aged, and is in prop	er condition for transportation	on accordin	g to applie	cable regulations	s; AND, if this
waste is a treatment residue of a previous been treated in accordance with the requir	rements of 40 CFI	rdous waste subject R 268 and is no lone	to the Land Disposal Restr ger a hazardous waste as d	efined by 4	0 CFR 26	varrant that the v 1.	vaste nas
been treated in accordance with the requirement	ION acting as not	nonized agent for th	e IVERI			7	173
p. Generator Authorized Agent Name (Prin	nt) a	. Signature			r. Date		No.
II. TRANSPORTER (Gener			sporter completes IIc	-e)	1. 5410		
a. Transporter's Name and Address:	ator comprete	0 110 0 0110 1101	-				
.4660 Flippin Strest							
Las Vegas Nevada 89115	702-645-58						
b. Phone:	一下来				1 1	>110	
novely			t .	1	01	2117	
c. Driver Name (Print)	d. Sign		0 1	e. Date			
III. DESTINATION (Generat	or complete III						
a. Disposal Facility and Site Address:	n .	c. US EPA Num	d. Discrepancy indic	ation Space	3.		
Las Vegas Nevada 99165							
b.							
I hereby certify that the above named mat	erial has been ac	cepted and to the be	est of my knowledge the for	egoing is tr	ue and ac	curate.	
				1 21			
e. Name of Authorized Agent (Print)	f. Signa			g. Date			
IV. ASBESTOS (Generator	completes IVa	-f and Operator	complete IVg-i)				
a. Operator's Name and Address:			c. Responsible Agency Na	me and Ad	dress:		
h Dhann			d Dhana				
b. Phone:     e. Special Handling Instructions and Addit	ional Information:		d. Phone:		-		
# 50							
f. Friable Non-Friable Both		riable	% Non-Friable				
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and							
national governmental regulations.					0		
Constant News 17th (D.C.)	1.0	atura .		i Data			
g. Operator's Name and Title (Print)  *Operator refers to the company which ow	h. Sign	tes, controls, or sun	ervises the facility being de	i. Date molished or	renovate	d, or the demolit	ion or
renovation operation or both	opolu	, , , , , , , , , , , , , , , , , , ,					



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I. GENERATOR (Generato	or completes la	a-r)					
a. Generator's US EPA ID Number		b. Manifest Docum			c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing Ad	ldress:			
Hevada Environmental Resp 510 Fourth Street	onse Trust (NEF	(7)	g. Phone:	en Dr. Ste. I	550		
If owner of the generating facility differs from	om the generator	, provide:	Chibingo, it	SHANNE			E
h. Owner's Name:			i. Owner's Phone No.:		2-496-28		a Unit
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	ping Name and	No.	Type	n. Total Quantity	o. Unit Wt/Vol
	Nacional States						
3025 13 12575	1/1/2010	ACMSoll		1	OT	20 1	1
					100	100	
GENERATOR'S CERTIFICATION: I here state law, has been properly described, c waste is a treatment residue of a previous been treated in accordance with the requi	lassified and pack sly restricted haza irements of 40 CF	kaged, and is in prop ardous waste subjec FR 268 and is no lon	t to the Land Disposal Rest ger a hazardous waste as	rictions. I ce	ertify and v	warrant that the w	THE THE
of ENRIFE	RON acting as auth	iorized agent for the fd	ERT		1		
p. Generator Authorized Agent Name (Pr	int)	q. Signature			r. Date		
II. TRANSPORTER (Gene	erator complet	es Ila-b and Tra	nsporter completes lic	c-e)			
a. Transporter's Name and Address:  Werdon  4660 FlippinStreet, Las Vea  b. Phone:	es NA 702-465-	5848				ijalika Karana	
			COMPANY A	1 7		5-15	
c. Driver Name (Print)		nature		e. Date			
III. DESTINATION (General	tor complete	Illa-c and Destin	ation Site completes	IIId-g)			
a. Disposal Facility and Site Address:		c. US EPA Nui	mber d. Discrepancy Indi	ication Space	e:		
Apex Regional Landfill b 13550 U.S. Highway 93 No.	HN 1 V MV 9916	5					
b. I hereby certify that the above named ma	aterial has been a	accepted and to the b	est of my knowledge the fo	oregoing is t	rue and a	ccurate.	
		Francisco Education					
e. Name of Authorized Agent (Print)	f. Sign	nature		g. Date			
IV. ASBESTOS (Generator			r complete IVg-i)				
a. Operator's Name and Address:		The same of the sa	c. Responsible Agency N	Name and A	ddress:		
Walker Specially Construct	ion Inc			Nevada He		ot	
6423 Windy Road	702-249-2	SON	d. Phone: Las Vegas			02,759-0660	
b. Phone: Las Vegas, NV 89165 e. Special Handling Instructions and Add			u. r none.				
f. Friable Non-Friable Bot	h %	Friable	% Non-Friable				
OPERATOR'S CERTIFICATION: I heret and are classified, packaged, marked ar national governmental regulations.	au dealare that the	a contents of this con	nsignment are fully and acc spects in proper condition f	curately description transport	according	ove by the proper to applicable into	shipping name ernational and
g. Operator's Name and Title (Print) *Operator refers to the company which of	h. Sig	gnature erates, controls, or su	pervises the facility being of	i. Date demolished	or renovat	ed, or the demoli	tion or
renovation operation or both							



1197218

a. Generator's US EPA ID Number		b.	Manifest Doc	ument Number		c. Page	e 1 of	
d. Generator's Name and Location:				Too				
Flevada Errorromental Re-				e. Generator's Maili	Address:	(55)		
If owner of the generating facility differs	from the gener	rator pro	vido:	g. Phone:	to II spans	e (GRAV)		
h. Owner's Name:	on the gener	rator, pro	vide:		12,112,40000			
j. Waste Profile #	11			i. Owner's Phone No	o.:	12 409.00	on.	
, , , , , , , , , , , , , , , , , , , ,	k. Exp. Date	е	I. Waste Shi	pping Name and	m. Co	ntainers	n. Total	o. Un
			Description		No.	Туре	Quantity	Wt/V
			Non-Haza	ndous Flon Regulated	4			
3925 19 12625	9/31/28	Fall .	Soil	The state of the s				
					1	131	20	Y
	1							
		- 3						1
GENERATOR'S CERTIFICATION: I here tate law, has been properly described, covered is a treatment residue of a residue.	by certify that	the abov	e named mate	rial is not a hazarda				
								plicable
vaste is a treatment residue of a previous een treated in accordance with the requi	rements of 40	azardous	waste subject	to the Land Disposal F	Restrictions. I ce	rtify and w	able regulations;	AND, if
Al la lange of English	RON acting as	CI IX 200	and is no long	jer a hazardous waste	as defined by 4	0 CFR 261		aste Has
Generator Authorized Agent Name (Pri				四月美化学(1)		HA 7	1 all	1 4
TRANSPORTER (Gene	nt)	q. Sign	ature	- market by the same of the sa		r. Date	77.1	
. IKANSPURIER (Gene	rator comple							100
Transporter's Name and Address.	ator comple	etes lla-	-b and Tran	sporter completes	lic-e)			FILE
. Transporter's Name and Address:	rator comple	etes lla-	-b and Tran	sporter completes	llc-e)			- 1
	rator compre	etes lla	-b and Tran	sporter completes	llc-e)			
Werden 4660 Flitten Street			-b and Trar	sporter completes	lic-e)			
Werden 4660 Flittein Street	702-6454		-b and Tran	sporter completes	lic-e)			
Werden 4660 Flittiin Street Phone: Las Vegas Nevada 69115			-b and Tran	sporter completes	llc-e)		00/ 10	
Phone: Las Vegas Navada 69115  Driver Name (Print)	702-545-4	5848	K/J				04-13	3
Phone: Las Vegas Navada 89115  Driver Name (Print)  DESTINATION (Generate	702-545-4	5848	K/J				04-13	3
Phone: Driver Name (Print)  Disposal Facility and Site Address:	d. Si or complete	ignature Illa-c a	K/J	ion Site completes	e. Date	10 -	04-13	3
Phone: Driver Name (Print)  Destination (Generate Disposal Facility and Site Address:	d. Si or complete	ignature Illa-c a	and Destinat	ion Site completes	e. Date	10 -	04-13	3
Phone: Las Vegas Linvada 89115  Driver Name (Print)  DESTINATION (Generate	d. Si or complete	ignature Illa-c a	and Destinat	ion Site completes	e. Date	10 -	04-13	3
Phone:  Driver Name (Print)  Disposal Facility and Site Address:  Application Street  Disposal Facility and Site Address:	d. Si or complete	ignature Illa-c a	and Destinat US EPA Numb	cion Site completes per d. Discrepancy In	e. Date s IIId-g) dication Space:	10 -		3
Phone:  Driver Name (Print)  Disposal Facility and Site Address:  Application Street  Disposal Facility and Site Address:	d. Si or complete	ignature Illa-c a	and Destinat US EPA Numb	cion Site completes per d. Discrepancy In	e. Date s IIId-g) dication Space:	10 -		3
Phone:  Driver Name (Print)  Disposal Facility and Site Address:  Application of the Address:  Applicat	d. Si or complete	ignature Illa-c a	and Destinat US EPA Numb	cion Site completes per d. Discrepancy In	e. Date s IIId-g) dication Space:	10 -		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)	d. Si or complete	ignature Illa-c a c.	and Destinat US EPA Numb	cion Site completes per d. Discrepancy In t of my knowledge the	e. Date s IIId-g) dication Space:	10 -		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  ereby certify that the above named mate  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Si or complete	ignature Illa-c a c.	and Destinat US EPA Numb	cion Site completes per d. Discrepancy In t of my knowledge the	e. Date s IIId-g) dication Space:	10 -		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  ereby certify that the above named mate  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Si or complete	ignature Illa-c a c.	and to the bes	tion Site completes or d. Discrepancy In t of my knowledge the omplete IVg-i)	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  ereby certify that the above named mate	d. Si or complete	ignature Illa-c a c.	and to the bes	cion Site completes per d. Discrepancy In t of my knowledge the	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Phone:  Driver Name (Print)  DESTINATION (Generate Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:	d. Si or complete	ignature Illa-c a c.	and to the bes	tion Site completes or d. Discrepancy In t of my knowledge the omplete IVg-i)	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Phone:  ASBESTOS (Generator comperator's Name and Address:	d. Si or complete rial has been a f. Sigr	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	t of my knowledge the omplete IVg-i). Responsible Agency	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Phone:  ASBESTOS (Generator comperator's Name and Address:	d. Si or complete rial has been a f. Sigr	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	tion Site completes or d. Discrepancy In t of my knowledge the omplete IVg-i)	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Driver Name (Print)  Destination (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator of Operator's Name and Address:	d. Si or complete rial has been a f. Sigr	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	t of my knowledge the omplete IVg-i). Responsible Agency	e. Date s Illd-g) idication Space: foregoing is true g. Date	+O -+		3
Driver Name (Print)  I. DESTINATION (Generate Disposal Facility and Site Address:  Asserting and Date Disposal Facility and Site Address:  Dereby certify that the above named mate Name of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:  Phone: Special Handling Instructions and Addition  Friable Non-Friable Details	d. Si or complete	ignature Illa-c a c. accepted nature /a-f and	and to the bes	tion Site completes per d. Discrepancy In t of my knowledge the complete IVg-i) Responsible Agency	e. Date s IIId-g) rdication Space: foregoing is true g. Date  Name and Addr	e and accu	rate.	3
Driver Name (Print)  Destination (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:  Phone:  Special Handling Instructions and Additional Prints (Generator's Name and Address:  Phone:  Special Handling Instructions and Additional Prints (Generator's Name and Address)  Phone:  Special Handling Instructions and Additional Prints (Generator's Name and Additional Prints)	d. Si or complete rial has been a f. Sign ompletes IV	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	ion Site completes per d. Discrepancy In t of my knowledge the complete IVg-i) Responsible Agency Phone:	e. Date s Illd-g) idication Space: foregoing is true g. Date  Name and Addr	e and accu	rate.	3
Phone:  Driver Name (Print)  Destination (Generate Address:  Address:  Appropriate Address:  Phone:  Private Address:  Assessing Address:  Assessing Address:  Assessing Address:  Phone:  Pho	d. Si or complete rial has been a f. Sign ompletes IV	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	ion Site completes per d. Discrepancy In t of my knowledge the complete IVg-i) Responsible Agency Phone:	e. Date s Illd-g) idication Space: foregoing is true g. Date  Name and Addr	e and accu	rate.	ping nan
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:  Phone:  Special Handling Instructions and Additional Prints    Friable  Non-Friable  Both	d. Si or complete rial has been a f. Sign ompletes IV	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	ion Site completes per d. Discrepancy In t of my knowledge the complete IVg-i) Responsible Agency Phone:	e. Date s Illd-g) idication Space: foregoing is true g. Date  Name and Addr	e and accu	rate.	ping nantional an
Phone:  Driver Name (Print)  Disposal Facility and Site Address:  Phone:  Disposal Facility and Site Address:  Disposal Fa	d. Si or complete rial has been a f. Sign ompletes IV	ignature Illa-c a c. accepted nature 'a-f and	and to the bes	ion Site completes per d. Discrepancy In t of my knowledge the complete IVg-i) Responsible Agency Phone:	e. Date s Illd-g) idication Space: foregoing is true g. Date  Name and Addr	e and accu	rate.	ping nantional and
Driver Name (Print)  I. DESTINATION (Generate Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:  Disposal Facility and Address:	d. Si or complete  rial has been a  f. Sigr  ompletes IV	ignature Illa-c a c. accepted nature (a-f and	and to the bes  Operator c  of this consigner in all respect	tof my knowledge the omplete IVg-i) Responsible Agency  Non-Friable oment are fully and acceptain in proper condition for	e. Date s IIId-g) dication Space: foregoing is true g. Date  Name and Addr  urately describe or transport acc	e and accu	y the proper ship	tional and



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a. Generator's US EPA ID Number		b. Manifest Doc	ument Number		c. Pag	0.1 of	
d. Generator's Name and Location:					C. ray	e 101	
			e. Generator's Mailin	ng Address:			
Herada Engroupenial Fest	Donse Trust #4EI	373					
i. Frione:			35 E V	lacker Dr. Ste	1550		
If owner of the generating facility differs from	om the generator	provide:	g. Phone:	0,11,60506			
h. Owner's Name:		, p. o rido.					
j. Waste Profile #	k. Exp. Date	1110	i. Owner's Phone No.		112-498-09	enn:	
	K. Exp. Date	I. Waste Shi	pping Name and		ontainers	n. Total	o. Un
		Boothpilott		No.	Туре	Quantity	Wt/Vc
		Plon Haza	rdous, Hon Regulated				
3025 13 12625	3/31/2014	Son	A STATE OF THE PARTY OF THE PAR				
				1	ENF	20	4
					NO THE		
		N. Carlotte					
GENERATOR'S CERTIFICATION: I herebistate law, has been properly described, classwaste is a treatment residue of a previously	V certify that the	ahove named	2210				1
waste is a treatment residue	ssified and packa	ged, and is in prop	er condition for transport	aste as define	ed by 40 CF	R 261 or any ar	pplicable
state law, has been properly described, class waste is a treatment residue of a previously been treated in accordance with the require	restricted hazard	lous waste subject	to the Land Disposal Re	ation according	g to applica	able regulations;	AND, if t
The rogalic	Ments of 40 CFR	268 and is no long	er a hazardous waste a	s defined by 4	0 CFR 261	arrant that the w	aste has
	The second secon	mised agent for the	NERT	See William	101/		
Generator Authorized Agent Name (Print)	) a.	Classic					1
I DANCOARTE (C		Signature					
Transporteria New York I ER (Genera	tor completes	lla-b and Tran	sporter completes I	le a)	r. Date		1
. Transporter's Name and Address:	tor completes	lla-b and Tran	sporter completes I	lc-e)	r. Date		
Transporter's Name and Address:	tor completes	lla-b and Tran	sporter completes I	lc-e)	r. Date		
Transporter's Name and Address:	tor completes	lla-b and Tran	sporter completes I	lc-e)	r. Date		
a. Transporter's Name and Address:	702 645 5549	lla-b and Tran	sporter completes I	lc-e)	r. Date		
Transporter's Name and Address:  Wender  4000 Flinoin Street  Phone: Las Vaus Hevada 50115	tor completes	lla-b and Tran	sporter completes I	lc-e)	r. Date		
Transporter's Name and Address: Webbo 4000 Filtroin Street Phone: Las Vegas Flevada 60115	702-645-5348	lla-b and Tran	sporter completes I				
a. Transporter's Name and Address:  Western Address:  Description Street  Description	702-645-5848	lla-b and Tran		13	r. Date		
Transporter's Name and Address:  Western Street  Phone: Las Vera Hevada 60115  Driver Name (Print)  I. DESTINATION (Generator	702-645-5848	lla-b and Tran	on Site completes	e. Date	-/- 13		
Transporter's Name and Address:  ACCO Financial Street  Phone: Las Vega Flevada SO115  Driver Name (Print)  I. DESTINATION (Generator Disposal Facility and Site Address:	702-645-5848	lla-b and Tran	on Site completes	e. Date	-/- 13		
Driver Name (Print)  Destination (Generator Disposal Facility and Site Address:	702-645-5848	lla-b and Tran	on Site completes	e. Date	-/- 13		
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a. Generator's US EPA ID Number	FITTER	b.	Manifest Docu	ment Number		c. Pag	0.1 of	
d. Generator's Name and Location:				The second secon		C. Fag	e i or	
- Committee				e. Generator's Mailin	g Address:			
Nevada Environmental Rej 5 (0 Fourth Street	sponse Trust	(FERT)						
f. Phone:				35 E 9	lacker Dr. Ste	1550		
If owner of the generating facility differs	from the gener	rator prov	ido:	g. Phone:	. 11 60606			
h. Owner's Name:	are gone,	ator, prov	ride.					
j. Waste Profile #	1			i. Owner's Phone No.		112-498-20	NO.	
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GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous	lassified and no	the above	named materi	al is not a hazardous w	aste as define	ed by 40 CF	R 261 or any ar	policable
state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the require	sly restricted ha	azardous	waste subject t	r condition for transport	ation accordin	g to applic	able regulations:	AND. if
The tale requi	rements of 40	CFR 268	and is no longe	er a hazardous west-	strictions. I ce	rtify and w	arrant that the w	aste has
1) 1/1 DEEDLAND	(City acting as a	uthorized	1 agent for the	NEET	s defined by 4	U CFR 261		
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d. Generator's Name and Location:	-10-		e. Generator's Mailing A	Address:			
f. Phone: Henderson, the order son.				teror si			
f. Phone:  If owner of the generating facility differs fr	5 312 (49.56	(8)	g. Phone: Chicago	FOSOS	19990		
	om the generator	, provide;		- HONDEY			
h. Owner's Name: j. Waste Profile #	1		i. Owner's Phone No.:		12-498-28	Servi	
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state law, has been properly described, cla waste is a treatment residue of a previously been treated in accordance with the require	ssified and packa	iged, and is in prope	er condition for transportation	on accordin	g to applica	able regulations:	oplicable
The require	silients of 40 CFR	268 and ic no lan-		ictions. I ce	rtify and wa	arrant that the w	aste has
A STATE OF LINKE	Intracting as eath	prized agent for the	THE RIT	efined by 4	0 CFR 261		RESERVICES
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a. Generator's US EPA ID Number		b. Manifest Doc	ument Number		c. Page	1 of	
d. Generator's Name and Location:			July 1		o. r age	3 1 01	
			e. Generator's Mailing A	Address:			
Plevada For Prompetital Free	sporese Trust IFIE	RIV					
f. Phone: Henderson Newsda 200			HIE Min		1850		
f. Phone: Henderson He add 200 If owner of the generating facility differs to	from the	500	g. Phone: Chicago, I				
	nom the generato	r, provide:					
h. Owner's Name: j. Waste Profile #			i. Owner's Phone No.:		12 498 28		
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waste is a treatment residue of a previous been treated in accordance with the requir	ly restricted hazar	dous waste subject	to the Land Disposal Restr	rictions I ca	g to applica	able regulations	AND, if t
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Generator Authorized Agent Name (Prin	nt) q.	Signature	-	-		19 4 5 10	17
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I. GENERATOR (General	ator com	pletes la-	r)					
a. Generator's US EPA ID Number			b. Manifest Docu	ment Number		c. Page	e 1 of	4
d. Generator's Name and Location:				e. Generator's Mailing	A - I - I			
Devada Environmental Re 510 Fourth Street	sponse In	ust the RTI						
f. Phone: Henderson, Henada (Ka)	115 310	AGR SEAN			oken Dr. Sta	1550		
If owner of the generating facility differs	from the g	enerator, pr	rovide:	g. Phone: Chicago, I	11. 00/60/6			
h. Owner's Name:								
j. Waste Profile #	k. Exp.	Data	I I Manta Oli	i. Owner's Phone No.:		12-498-2500		
	N. Exp.	Date	I. Waste Shipping Name and Description			ntainers Type	n. Total Quantity	o. Unit Wt/Vol
			Blon Haves	rdous, Flon Regulated				110 101
3625 13 12625	3/01		Soil	www, with negulated		DT		
		-				121	20	7
GENERATOR'S CERTIFICATION: I her state law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the requirements.	sly restricte	d hazardou	us waste subject	to the Land Disposal Rest	non accordin	id to applic	able regulations	pplicable ; AND, if this vaste has
A La OF KIND	Hilly auticip	Saz authon	ted agent for the	- Wilki	defined by 4	U CFR 261		
p. Generator Authorized Agent Name (Pr	int	-				11/2		
II. TRANSPORTER (Gene	int)	q. Sig	gnature			r. Date		
II. TRANSPORTER (Gene a. Transporter's Name and Address:	rator cor	npietes II	a-b and Tran	sporter completes llo	:-e)			
4500 Flippin Street				11				
b. Phone: Las Jegas Hevada (9115	702.6	145-5948	1/1					
100 tot			1/1/		1		1 100	
c. Driver Name (Print)		d. Signature	117		11	)-01	4-15	
III. DESTINATION (General	or comp	lete III. o	and Deeting	11	e. Date			
a. Disposal Facility and Site Address:	or comp	lete IIIa-C	c. US EPA Numb	tion Site completes II	ld-g)			
Age, Regional Landfill 1930, 175 Highway we mon Las Vegas Nevada 80 163 b.				and a second of male				
I hereby certify that the above named mat	erial has be	en accepte	ed and to the bes	it of my knowledge the fore	egoing is tru	e and see	urata	
				3- 110 1010	30ig 13 tru	o and acct	iidle.	
e. Name of Authorized Agent (Print)	f.	Signature						
IV. ASBESTOS (Generator o	complete	s IVa-f ar	nd Operator o	omplete IVa iV	g. Date			
a. Operator's Name and Address:					40			
				Responsible Agency Nar	me and Add	ress:		
D. Phone:				. Phone:				
e. Special Handling Instructions and Additi	onal Inform	ation:						
. Friable Non-Friable Both		0/ =			No. of the			Maria Par
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		ALT. R						
Operator's Name and Title (Print)	h.	Signature			i Dat	The Little		
Operator refers to the company which own enovation operation or both	s, leases, o	operates, co	ontrols, or superv	ises the facility being dem	olished or re	enovated, c	r the demolition	or
The state of pour	-						demonition	



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a. Generator's US EPA ID Number		mifest D.						
	D. IVIA	miest Docur	ment Number		c. Page	1 of		
d. Generator's Name and Location:			e. Generator's Mailing A	ddress:				
Nevada Epigronneptal Response Tru	SI (NERT)		THE SALVEY					
f. Phone: Henderson, Nevada 99015 412.	400.00nn		35 E. Waoi		1550			
If owner of the generating facility differs from the ge	enerator, provide	):	g. Phone: Chicago II.	60000				
h. Owner's Name:			10 15	50	2-499-29			
j. Waste Profile # k. Exp. [	Date I.	Waste Ship	i. Owner's Phone No.: ping Name and	_	ntainers			
	D	escription		No.	Type	n. Total Quantity	o. Unit Wt/Vol	
		Non Hazardous, Non Regulated						
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					91	ZU.	7	
GENERATOR'S CERTIFICATION: I hereby certify the	hat the above							
GENERATOR'S CERTIFICATION: I hereby certify the state law, has been properly described, classified an waste is a treatment residue of a previously restricted	d packaged, and	d is in prope	al is not a hazardous waster condition for transportation	e as defined	by 40 CF	R 261 or any ap	plicable	
waste is a treatment residue of a previously restricted been treated in accordance with the requirements of	d hazardous was	ste subject to	o the Land Disposal Restri	ctions. I cer	tify and wa	able regulations; arrant that the wa	AND, if this	
of Environ acting	as authorized as	gent for the	er a hazardous waste as de	efined by 40	CFR 261	•0		
p. Generator Authorized Agent Name (Print)	0: 1							
II. TRANSPORTER (Generator com	q. Signatur	re			r. Date			
a. Transporter's Name and Address:	ipietes lia-b a	and Trans	sporter completes lic-	e)				
4660 Fliopin Street								
Las Vegas Nevada 89115 702-6	45-5848	1						
b. Phone:		-/-						
5760	(970	rf.		10	1	12		
c. Driver Name (Print) d	. Signature	for the same of th		e. Date /	14/	10		
III. DESTINATION (Generator complete a. Disposal Facility and Site Address:	ete Illa-c and	Destination	on Site completes Illo	d-g)	Date /			
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Las Vegas Nevada 99165								
b.								
I hereby certify that the above named material has bee	en accepted and	d to the best	of my knowledge the forest	noina is true	and accu	rote	THE PARTY.	
			3 - 410 10100	, , , , , , , , , , , , , , , , , , , ,	and accu	rate.		
e. Name of Authorized Agent (Print) f.	Signature			g. Date				
IV. ASBESTOS (Generator completes	IVa-f and O	perator co	implete IVa-i)	y. Date				
a. Operator's Name and Address:			Responsible Agency Nam	e and Addr	966.			
			3					
b. Phone:								
e. Special Handling Instructions and Additional Informa	ation:	d,	Phone:					
and thomas	myll.						1 - 1 - 1	
. ☐ Friable ☐ Non-Friable ☐ Both	% Friable	0.1	N. E. C.					
OPERATOR'S CERTIFICATION: I bereby declare that	46	44 4	Non-Friable	alv dagariha	al alta er			
and are classified, packaged, marked and labeled/place national governmental regulations.	arded, and are in	n all respect	s in proper condition for tra	ansport acc	ording to a	y the proper ship	ping name.	
Salations.						i i i i i i i i i i i i i i i i i i i	anu	
p. Operator's Name and Title (Print)	01	N. L. Sales						
Operator refers to the company which owns leases or	Signature perates controls	or cupor i	i.	Date				
enovation operation or both	and the second second	o, or supervis	ses the racility being demol	lished or rei	novated, o	r the demolition of	or	



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I. GENERATOR (Generat	er completes	la-1)					
a. Generator's US EPA ID Number		b. Manifest Do	ocument Number		c. Page	e 1 of	
d. Generator's Name and Location:			e. Generator's Mailing	a Addraga			
f. Phone:				anker Or Sie	1550		
If owner of the generating facility differs fr	om the generato	r, provide:	g. Fliorie.	H. 60606			
h. Owner's Name:			i Oumorio Dhana N				
j. Waste Profile #	k. Exp. Date	I. Waste S	i. Owner's Phone No.:		ntainers		
		Descriptio	n	No.	Type	n. Total Quantity	o. Unit Wt/Vol
£25 to 1,625	7/31/2014	Flori Ha	sardous, Non-Regulated				1.0.10
					404	20 -7	Ť
GENERATOR'S CERTIFICATION: I herebestate law, has been properly described, clawaste is a treatment residue of a previously been treated in accordance with the require	y restricted haza ements of 40 CF		ect to the Land Disposal Re	audii accordin	d to applic	able regulations	pplicable AND, if this aste has
			the HERT		2011	107 F	
p. Generator Authorized Agent Name (Print II. TRANSPORTER (General a. Transporter's Name and Address:		. Signature			r. Date		
b. Phone: Las Vedas Nevada 89115	702 645 504	8					
c. Driver Name (Print)	d. Signa	aturo		10-	4-13		
III. DESTINATION (Generator	r complete IIIa	a-c and Destin	ation Site completes	e. Date	0 - 4 - 13 Date		
and one Address.		c. US EPA Nui	mber d. Discrepancy Ind	IIId-g)			
Aps. Regional Langfill Lyonn			- Diedioparity ma				
	al has been acce	epted and to the b	est of my knowledge the fo		e and cos	roto	
hereby certify that the above named materi	al has been acce	epted and to the b	est of my knowledge the fo		e and accu	rate.	
hereby certify that the above named materi Name of Authorized Agent (Print)	f. Signatu	ure		pregoing is true	e and accu	rate.	
hereby certify that the above named materi e. Name of Authorized Agent (Print) V. ASBESTOS (Generator co	f. Signatu	ure			e and accu	rate.	
hereby certify that the above named materi . Name of Authorized Agent (Print)	f. Signatu	ure		pregoing is true		rate.	
hereby certify that the above named materia.  Name of Authorized Agent (Print)  V. ASBESTOS (Generator co  Operator's Name and Address:	f. Signati mpletes IVa-f	ure	complete IVg-i)	pregoing is true		rate.	
hereby certify that the above named materials. Name of Authorized Agent (Print)  V. ASBESTOS (Generator co Decrator's Name and Address:	f. Signati mpletes IVa-f	ure	complete IVg-i) c. Responsible Agency N	pregoing is true		rate.	
hereby certify that the above named materia. Name of Authorized Agent (Print)  V. ASBESTOS (Generator co. Operator's Name and Address:  Phone: Special Handling Instructions and Addition  Friable Non-Friable Roth	f. Signatumpletes IVa-f	and Operator	complete IVg-i) c. Responsible Agency N d. Phone:	g. Date	ress:		
hereby certify that the above named material hereby certify that the above named material hereby certify that the above named material hereby certify that the above named material hereby certified and address:  Name of Authorized Agent (Print)  ASBESTOS (Generator compared to the compared to the compared to the certified and address:  Phone:  Phone:  Non-Friable    Both  PERATOR'S CERTIFICATION: Legisly do	f. Signatumpletes IVa-f	and Operator	complete IVg-i) c. Responsible Agency N d. Phone:	g. Date	ress:		oping name,
hereby certify that the above named material hereby certify that the above named material hereby certify that the above named material hereby certify that the above named material hereby Center (Print)  Note:  Phone:  Phone:  Priable Non-Friable Both PERATOR'S CERTIFICATION: I hereby de not are classified, packaged, marked and laborational governmental regulations.	f. Signatumpletes IVa-f	and Operator	complete IVg-i) c. Responsible Agency N d. Phone:	g. Date	ress:		pping name, tional and
hereby certify that the above named materia. Name of Authorized Agent (Print)  V. ASBESTOS (Generator co. Operator's Name and Address:  Phone: Special Handling Instructions and Addition	f. Signatumpletes IVa-f	ble Intents of this cons	complete IVg-i) c. Responsible Agency N d. Phone:  % Non-Friable ignment are fully and accurects in proper condition for	g. Date ame and Addi	ress:	y the proper ship pplicable interna	tional and



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a. Generator's US EPA ID Number		b.	Manifest Docu	ument Number		c. Page	e 1 of	
d. Generator's Name and Location:						o. r ag	7 1 01	
Nevada Environmental Ra 510 Fourth Street	esponse Trie	ot (NEPT)		e. Generator's Mailing A				
f. Phone: If owner of the generating facility differs	s from the ger	nerator, pro	vide:	g. Phone: Chicago II	kar Dr. Sta 60606	1550		
h. Owner's Name:		Consider Manager						
j. Waste Profile #	k. Exp. D.	ate	I Waste Shir	i. Owner's Phone No.:		12-499-25		
		935	Description	pping Name and	No.	Type	n. Total Quantity	o. Un
			Non Hazardous, Non Regulated			1,700	Quantity	Wt/Vo
3825 13 12625	3/31/2		Soil	rious, non regulated				
	3,5/02	2010	3311		1	DT	20	Y
					-			
SENEDATORIC OFFICE								
GENERATOR'S CERTIFICATION: I her tate law, has been properly described, o	reby certify the	at the above	e named mater	rial is not a hazardous wast	te as define	d by 40 CF	R 261 or any ar	pplicable
dole is a literiment recidite of a province	and a manual transfer of	THE RESERVE AND THE PERSONS	The second secon	and the state of t	on accordin	in to applie	able regulations	: AND if
vaste is a treatment residue of a previous een treated in accordance with the requ	uirements of 4	40 CFR 268	and is no long	to the Land Disposal Restri	ictions. I ce	rtify and w	arrant that the w	aste has
1117 - MENV	TRON acting a	es authorize	d agent for the	- Nepr	cililed by 4	0 CFR 261	1 70 10	
. Generator Authorized Agent Name (Pr	rint)	g. Sign	ature		1	1		
. TRANSPORTER (Gene	erator comi	nletes IIa	h and Tran			r. Date		
Wenter 4550 Filippin Street			D dilu Tiali	sporter completes lic-	e)			
Wentco	702-64		b and train	sporter completes lic-				
Werdoo 4550 Filippin Street Phone: Las Vegas Nevada 99115	702-64	5-5848	b and Train	sporter completes IIc-		0-0	4-13	
Werden 1000 Filopin Street Phone: Las Vegas Nevada 99115  Driver Name (Print)	702-64	5 5848 Signature		200/	/	0-0	4-13	
Phone: Las Vegas Nevada 99115  Driver Name (Print)  I. DESTINATION (Generat Disposal Facility and Site Address:	702-64	5.5848 Signature te Illa-c a	nd Destinat	ion Site completes Illo	e. Date		4-13	
Phone: Las Vegas Nevada 99115  Driver Name (Print)  I. DESTINATION (Generat Disposal Facility and Site Address:	702-64	5.5848 Signature te Illa-c a		ion Site completes Illa	e. Date		4-13	
Phone: Las Vegas Nevada 591 IS  Driver Name (Print)  DESTINATION (Generation)	702-64	5.5848 Signature te Illa-c a	nd Destinat	ion Site completes Illo	e. Date		4-13	
Phone: Las Vegas Nevada 59115  Driver Name (Print)  Disposal Facility and Site Address:  105 Phone: Disposal Facility and Site Address:  105 Phone: Disposal Facility and Site Address:	d. tor complet	Signature te Illa-c a	nd Destinat US EPA Numb	ion Site completes Illo	e. Date d-g) tion Space			
Phone: Las Vegas Nevada 59115  Driver Name (Print)  Disposal Facility and Site Address:  Las Vegas Nevada 89105	d. tor complet	Signature te Illa-c a	nd Destinat US EPA Numb	ion Site completes Illo	e. Date d-g) tion Space			
Driver Name (Print)  Destination (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:	d. tor completerial has been	Signature te Illa-c a	nd Destinat US EPA Numb	ion Site completes Illo	e. Date d-g) tion Space			
Phone:  Driver Name (Print)  Disposal Facility and Site Address:	d. tor completerial has been	Signature te Illa-c a c.	nd Destinat US EPA Numb	ion Site completes Illo er d. Discrepancy Indica t of my knowledge the fore	e. Date d-g) tion Space			
Driver Name (Print)  Destination (General Disposal Facility and Site Address:  Destination (General Disposal Facility and Site Address:  Disposal Facility and	d. tor completerial has been	Signature te Illa-c a c.	nd Destinat US EPA Numb	ion Site completes Illo er d. Discrepancy Indica t of my knowledge the fore	e. Date d-g) tion Space			
Driver Name (Print)  Destination (General Disposal Facility and Site Address:  Destination (General Disposal Facility and Site Address:  Disposal Facility and	d. tor completerial has been	Signature te Illa-c a c.	and to the bes	ion Site completes Illo er d. Discrepancy Indica t of my knowledge the forecomplete IVg-i)	e. Date d-g) tion Space going is true	e and accu		
Driver Name (Print)  I. DESTINATION (Generate Disposal Facility and Site Address:  Description of Authorized Agent (Print)  ASBESTOS (Generator of Authorized Agent (Print)	d. tor completerial has been	Signature te Illa-c a c.	and to the bes	ion Site completes Illo er d. Discrepancy Indica t of my knowledge the fore	e. Date d-g) tion Space going is true	e and accu		
Driver Name (Print)  Destination (General Disposal Facility and Site Address:  Destination (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:	d. tor completerial has been	Signature te Illa-c a c.	and to the bes	ion Site completes Illo per d. Discrepancy Indica t of my knowledge the foreg  omplete IVg-i) Responsible Agency Name	e. Date d-g) tion Space going is true	e and accu		
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Description of Authorized Agent (Print)  ASBESTOS (Generator of Operator's Name and Address:  Phone:	terial has been	Signature te Illa-c a c. n accepted Signature IVa-f and	and to the bes	ion Site completes Illo er d. Discrepancy Indica t of my knowledge the forecomplete IVg-i)	e. Date d-g) tion Space going is true	e and accu		
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Address:	terial has been	Signature te Illa-c a c. n accepted Signature IVa-f and	and to the bes	ion Site completes Illo per d. Discrepancy Indica t of my knowledge the foreg  omplete IVg-i) Responsible Agency Name	e. Date d-g) tion Space going is true	e and accu		
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Address:  Disposal Facility and Site Address:  Disposal	d. tor completerial has been f. S completes	Signature te Illa-c a c. c. n accepted liVa-f and ion:	and to the bes	ion Site completes Illover d. Discrepancy Indicated to find the forest of the forest o	e. Date d-g) tion Space going is tru g. Date	e and accu	rate.	
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Asserbly certify that the above named mate  Name of Authorized Agent (Print)  ASBESTOS (Generator of Operator's Name and Address:  Phone:  Special Handling Instructions and Addition  Friable Non-Friable Both  ERATOR'S CERTIFICATION!	terial has been f. S completes in informational Information	Signature te Illa-c a c. c. n accepted liva-f and ion:	and to the bes	ion Site completes Illo  d. Discrepancy Indica  t of my knowledge the fore  omplete IVg-i)  Responsible Agency Nam  Phone:	e. Date d-g) tion Space going is tru g. Date e and Addi	e and accu	rate.	
Driver Name (Print)  Destination (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Disposal Facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Disposal Facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Disposal Facility and Site Address:  Dereby certify that the above named material disposal facility and Site Address:  Disposal Facility and	terial has been f. S completes in informational Information	Signature te Illa-c a c. c. n accepted liva-f and ion:	and to the bes	ion Site completes Illo  d. Discrepancy Indica  t of my knowledge the fore  omplete IVg-i)  Responsible Agency Nam  Phone:	e. Date d-g) tion Space going is tru g. Date e and Addi	e and accu	rate.	pping nan
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Dis	d. tor complete f. S completes formal informational inform	Signature te Illa-c a c. n accepted  Signature IVa-f and ion: % Friable he contents rded, and a	and to the bes	ion Site completes Illo  d. Discrepancy Indica  t of my knowledge the fore  omplete IVg-i)  Responsible Agency Nam  Phone:	e. Date d-g) tion Space going is tru g. Date e and Addi	e and accu	rate.	pping nan
Driver Name (Print)  I. DESTINATION (General Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Address:  Disposal Facility and Address:  Phone:  Special Handling Instructions and Additional Control of Control	terial has been f. S completes ional Informati	Signature te Illa-c a c. n accepted Signature IVa-f and ion: % Friable he contents rded, and a	and to the bes  Operator co  of this consigree in all respect	ion Site completes Illo per d. Discrepancy Indica t of my knowledge the forecomplete IVg-i) Responsible Agency Nam Phone:  Non-Friable Imment are fully and accurate the inproper condition for training in the complete IVg-ii)  Non-Friable Imment are fully and accurate the inproper condition for training in the complete IVg-ii)	e. Date d-g) tion Space going is tru g. Date e and Adda ely describe	e and accu	y the proper ship	ational and



1197220

I. GENERATOR (Generati	or comp	letes	a-r)						
a. Generator's US EPA ID Number			b. Manifest	Docum	ent Number		c. Page	1 of	
d. Generator's Name and Location:					e. Generator's Mailing Ad	dress:		A THE PARTY	
Herada Engronmental Resp	oruse In								
f. Phone:					g. Phone:				
If owner of the generating facility differs fr	om the ge	enerator	provide:		g. I Holle.	60606			
h. Owner's Name:			T L MA		i. Owner's Phone No.:		2.498.28	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NA	
j. Waste Profile #	k. Exp.	Date	I. Waste Descrip		ing Name and	M. Cor	ntainers	n. Total	o. Unit
			Descrip	uon		140.	Туре	Quantity	Wt/Vol
			Flori i	lazard	lous, Hon Regulated				
3225 15 12625	353	7,014	Seil			1 1	DT	20	Y
		2007					100	2018)	*
								The same of the same	
						H			
GENERATOR'S CERTIFICATION: I here	by certify	that the	above named	materia	al is not a hazardous waste	e as define	d by 40 C	FR 261 or any a	pplicable
state law, has been properly described, cl waste is a treatment residue of a previous	assified a	nd pack	aged, and is in	proper	r condition for transportation	n accordin	g to applic	cable regulations	; AND, if this
been treated in accordance with the requi	rements o	of 40 CF	R 268 and is n	o lonae	er a hazardous waste as de	efined by 4	0 CFR 26	varrant that the w	aste nas
			ramited agent t				0 011120		-
MARK SERVICE						T AND	1 1/	The state of	11/
p. Generator Authorized Agent Name (Pri			. Signature				r. Date		
II. TRANSPORTER (Gene	rator co	mplete	es lla-b and	Trans	sporter completes Ilc-	e)			
a. Transporter's Name and Address:									
4660 Fliopin Street									
Line Coarse Marinda CD 115	700	645-58	19	11					
b. Phone:	-			_				-	
GFO		/-	y south	-		10	11,	12	
c. Driver Name (Print)		d. Sign	ature			e. Date	14)	112	
III. DESTINATION (Generat	or comp			stinati	ion Site completes Ille	The second secon			
a. Disposal Facility and Site Address:			c. US EPA						
Aper Regional Landfill									
1,2000 tills, mignway ya gron Las Vegas Nevada 59 165	n		The latest						
b.									
I hereby certify that the above named mate	erial has b	peen ac	cepted and to t	he bes	t of my knowledge the fore	aoina is tru	ue and acc	curate	
e. Name of Authorized Agent (Print)	-	f C:	ti in a						
		f. Signa			1 1 0 1 0	g. Date	1-1		
IV. ASBESTOS (Generator of	complete	esiva	-T and Opera	ator c	omplete IVg-i)				
a. Operator's Name and Address:				C	. Responsible Agency Nar	ne and Add	dress:		
		-							
		-							St. Little
b. Phone:			711	d	. Phone:	The same of			
e. Special Handling Instructions and Additi	ional Infor	mation:							
f. Friable Non-Friable Both		% Fr	riable	9	6 Non-Friable		×		
OPERATOR'S CERTIFICATION: I hereby	declare th	nat the c	contents of this	consia	nment are fully and accura	tely descri	bed above	by the proper s	hipping name.
and are classified, packaged, marked and	labeled/pl	lacarded	d, and are in all	respec	cts in proper condition for t	ransport a	ccording to	applicable inter	national and
national governmental regulations.		-							
					/				
g. Operator's Name and Title (Print)		h. Signa	ature			i. Date			
*Operator refers to the company which own renovation operation or both	ns, leases	operat	es, controls, or	super	vises the facility being dem	olished or	renovated	, or the demolitic	on or
renovation operation of both		-	\						



1197219

I. GENERATOR (Generat	or completes I	a-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:		HATE NEWS	
In other colors							
He ada Environments 10 Fourth		Mal Life H. II				990	
f. Phone:	ada 00/1/5 313		g. Phone:	This was II A			
If owner of the generating facility differs for	rom the generator,	, provide:		onengo, in o	M10000		
h. Owner's Name:			i. Owner's Phone No.:			1992-299N	
i. Waste Profile #	k. Exp. Date	I. Waste Shir	oping Name and	m. Co	ntainers	n. Total	o. Unit
		Description		No.	Туре	Quantity	Wt/Vol
		N	on Hazardous, Non Reg	gulated			
3825 13 12625	3825 13 12625 3/1/20 4				1	DT	20 Y
					F-100		
					175 5		
						W. T. T.	
				10 PM			
GENERATOR'S CERTIFICATION: I here	eby certify that the	above named mate	erial is not a hazardous wa	aste as define	ed by 40 C	FR 261 or any	applicable
state law, has been properly described, o	lassified and pack	aged, and is in prop	er condition for transport	ation according	ng to applic	cable regulation	s; AND, if this
waste is a treatment residue of a previous been treated in accordance with the requ	sly restricted haza irements of 40 CF	R 268 and is no lon	t to the Land Disposal Re	strictions. I co	ertify and w	arrant that the	waste has
A A (A A		rig as a shorteed ag		s defined by -	10 CI IX 20	and I	11/
114 3414			mis and the reast.			1-17 5	177
p. Generator Authorized Agent Name (Pr		. Signature			r. Date		
II. TRANSPORTER (Gene	erator complete	es Ila-b and Tra	nsporter completes I	lc-e)			
a. Transporter's Name and Address:							
1660 Flippin Street							
Law Venue Live and	OD145 780	645-5848					
b. Phone: Las segas Herada	59110 702	THE STATE OF THE PARTY OF THE P					
c. Driver Name (Print)	d. Sign	nature		e. Date			
III. DESTINATION (General	tor complete II	la-c and Destina	ation Site completes	IIId-g)			
a. Disposal Facility and Site Address:	TEN STATE	c. US EPA Nur	nber d. Discrepancy Inc	dication Spac	e:		
Apex Regional Land	dfill						
Las Vedas Nevada							
b.							
I hereby certify that the above named ma	terial has been ac	cepted and to the b	est of my knowledge the t	foregoing is to	ue and ac	curate.	
e. Name of Authorized Agent (Print)	f. Signa	ature		g. Date			
IV. ASBESTOS (Generator		Carried Control of the Control of th	complete IVa-i)	, g. 2010			
a. Operator's Name and Address:	oomprotee it a	Tana Operator	c. Responsible Agency	Name and Ac	Idraee:		
a. Operator o Name and Address.			c. Responsible Agency	Ivallic allu Au	iui ess.		
b. Phone:			d. Phone:				
e. Special Handling Instructions and Addi	tional Information:		u. Filone.				
4 D Estable D No Estable D D II	02 <b>=</b>	data.	0/ N E-1-11				
f. ☐ Friable ☐ Non-Friable ☐ Both OPERATOR'S CERTIFICATION: I hereby	/ declare that the	riable	% Non-Friable	curately dass	ihed above	e by the proper	shipping name
and are classified, packaged, marked and	d labeled/placarded	d, and are in all resi	pects in proper condition f	for transport a	according t	o applicable into	ernational and
national governmental regulations.			2 80				
g Operator's Name and Title (Print)	h Sign	ature		i Date			
g. Operator's Name and Title (Print) *Operator refers to the company which ow	h. Signa vns, leases, operat	ature tes, controls, or sup	ervises the facility being o	i. Date	renovated	I, or the demolit	tion or



1197257

I. GENERATOR (Generat	or completes	la-r)					
a. Generator's US EPA ID Number	1.11	b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:	-		
f. Phone:			g. Flione.	ekerbi Sie	1550		
If owner of the generating facility differs for	rom the generato	or, provide:	talinamino,	IL SALKAR	MAL		
h. Owner's Name: i. Waste Profile #			i. Owner's Phone No.:		12 109,09	710	
j. vvaste Profile #	k. Exp. Date	I. Waste Ship Description	oping Name and	m. Co	ntainers	n. Total	o. Unit
				140.	Туре	Quantity	Wt/Vol
3925 (3 )2575	5/7/2014	ACMISON			DT	20 A	
	9.5						
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requirements.	ly restricted haza rements of 40 CF	ardous waste subject R 268 and is no long	to the Land Disposal Reger a hazardous waste as	ation according	ng to applic	able regulations;	olicable AND, if this este has
Mys 5 Mag HENNIR	OH ading as aun	orized agent for the NE	RT -	MATERIAL SERVICES	274	01/21/3	
p. Generator Authorized Agent Name (Prin		q. Signature		611	r. Date		
TRANSPORTER (General Address:     Transporter's Name and Address:	rator complete	es Ila-b and Tran	sporter completes II	lc-e)		Industry of	
Werdco 4660 FlippinStreet, Las Vega b. Phone:	is NV 702-465 5	1848					
c. Driver Name (Print)	1.0			13-	5-1	3	
	d. Sign		tion Oite and I I	e. Date			
a. Disposal Facility and Site Address:	or complete ii	c. US EPA Num	oer d. Discrepancy Ind	IIId-g)			
Apex Regional Landfill 13550 U.S. Highway 23 North b. I hereby certify that the above named mate							
	THE SCOTT GO	cepted and to the be	st of my knowledge the fo	pregoing is tru	ie and acci	urate.	
e. Name of Authorized Agent (Print)	f. Signa	ature		g. Date			
IV. ASBESTOS (Generator o			complete IVa-i)	g. Date			
a. Operator's Name and Address: Singling No.	i Inc.		c. Responsible Agency N		dress:		
Las Vegas, NV 99165	702-243-250	X0	PO-Box 39				
b. Phone: e. Special Handling Instructions and Addition			Las Vegas d. Phone:	, 1407	792	759-0660	
5 Delate Day							NET ET
f. Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby c and are classified, packaged, marked and la national governmental regulations.	% Fr declare that the c abeled/placarded	ontents of this consid	% Non-Friable gnment are fully and accu cts in proper condition fo	urately describ r transport ac	bed above ccording to	by the proper ship applicable interna	oping name, itional and
			The second				
g. Operator's Name and Title (Print) *Operator refers to the company which ownsrenovation operation or both	h. Signa	ature es, controls, or super	vises the facility being do	i. Date	conquetad	or the develop	
renovation operation or both	, , , , ,	, solo, or ouper	the facility being de	industred of f	enovated,	or the demolition	or



1197221

a. Generator's US EPA ID Number			+ Doo					
		b. Warmest	Docum	ent Number		c. Pag	e 1 of	
d. Generator's Name and Location:				e. Generator's Mailing	A ddra a a			
f. Phone: Handaran Handa Son					oker Dr. Sta			
If owner of the generating facility differs	from the general	tor, provide:		g. Phone: Phone	11.60606			
h. Owner's Name:	9	or, provide.						1-1-1-1
j. Waste Profile #	k. Exp. Date	1 West	- 01:	i. Owner's Phone No.:		12-498-28	100	
	Exp. Date	Descrip	e Snippi otion	ing Name and		ntainers	n. Total	o. Ui
					No.	Туре	Quantity	Wt/V
3625 13 12625		(flon)	Hazansk	ous, Non Regulated			1 4 5 5 V	
NASA 1.2 12022	3929 13 12629 3/91/2014				1	DT	20	100
			1			AL.	20	7
	WIND BUILD		-					
CENEDATORIO								1
SENERATOR'S CERTIFICATION: I here tate law, has been properly described, cleaste is a treatment residue of a previous	eby certify that th	e above named	material	is not a hazardous was	40 00 1 5			
tate law, has been properly described, cleaste is a treatment residue of a previous een treated in accordance with the requirements.	lassified and pac	kaged, and is in	proper	condition for transportat	ion according	d by 40 CF	R 261 or any ar	pplicable
aste is a treatment residue of a previous een treated in accordance with the requi	irements of 40 C	ardous waste su	bject to	the Land Disposal Rest	rictions. I ce	g to applicatify and wa	able regulations	AND, if
een treated in accordance with the requi	promise of 40 Ci	FR 268 and is no	olonger	a hazardous waste as	defined by 4	0 CFR 261		aste has
	The second second	thorized agent fi	or the N	ERT		11	1 1	7000
Generator Authorized Agent Name (Prin	nt)	q. Signature				14	6 4 1 5	1.19
TRANSPORTER (Gener	rator complet	Marian Control of the Control				r. Date		- 1-
4660 Flippin Streat		10.00	Transp	orter completes lic	-e)	1. Date		niene
Miendoo	702-645-58	10.00	Transp	orter completes lic	-e)	1. Date		
Phone: Vegas Nevada 89115	702-645-58	45	Transp	orter completes lic	-e)	1. Date	d 13	
Phone: Street Las Vegas Nevada 89115  Driver Name (Print)	702-645-58	145	-			1. Date	4-13	
Phone:  Driver Name (Print)  DESTINATION (Generate	702-645-58	145	-			T. Date	4 13	
Phone:  Driver Name (Print)  Disposal Facility and Site Address:	d. Signor complete II	145	tination	n Site completes III	e. Date	118	4-13	
Phone:  Driver Name (Print)  Disposal Facility and Site Address:  Appare a good 1 and 11	d. Signor complete II	nature la-c and Desi	tination	n Site completes III	e. Date	118	4-13	
Phone:  Driver Name (Print)  Disposal Facility and Site Address:	d. Signor complete II	nature la-c and Desi	tination	n Site completes III	e. Date	118	4-13	
Phone:  Driver Name (Print)  Disposal Facility and Site Address:	d. Signor complete II	nature la-c and Des	tination Number	n Site completes III d. Discrepancy Indica	e. Date d-g) ation Space:	HS-	4-13	
Phone:  Driver Name (Print)  Disposal Facility and Site Address:	d. Signor complete II	nature la-c and Des	tination Number	n Site completes III d. Discrepancy Indica	e. Date d-g) ation Space:	HS-	at 1 3	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:	d. Signor complete II	nature la-c and Des	tination Number	n Site completes III d. Discrepancy Indica	e. Date d-g) ation Space:	HS-	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named mater of Authorized Agent (Print)	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	d. Discrepancy Indica	e. Date d-g) ation Space: going is true	HS-	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Phone:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Pereby certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	d. Discrepancy Indica	e. Date d-g) ation Space:	HS-	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	d. Discrepancy Indicated in the second of th	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	d. Discrepancy Indica	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  ereby certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator co	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	d. Discrepancy Indicated in the second of th	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generated Disposal Facility and Site Address:  Properator's Name and Address:  Disposal Facility and Site Address:  Phone:  Description Street	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number e best of or com	m Site completes III d. Discrepancy Indication my knowledge the fore mplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generated Disposal Facility and Site Address:  Properator's Name and Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Properator's Name and Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:  Disposal Facility and Site Address:	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number	m Site completes III d. Discrepancy Indication my knowledge the fore mplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named mater of Authorized Agent (Print)	d. Signor complete II	nature la-c and Desi c. US EPA N	tination Number e best of or com	m Site completes III d. Discrepancy Indication my knowledge the fore mplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true	and accur	rate.	
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:  Phone:  Special Handling Instructions and Addition  Friable Agent (Print)  Phone:  Phone:	d. Signor complete II  rial has been accompletes IVa-	nature la-c and Desi c. US EPA N cepted and to the	tinatior Number Dest of c. Re	d. Discrepancy Indicated in Management of Ma	e. Date d-g) ation Space: going is true g. Date	and accur		
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Application of Authorized Agent (Print)  ASBESTOS (Generator of Operator's Name and Address:  Phone:  Phone:  Priable   Non-Friable   Both	d. Signor complete II  rial has been accompletes IVa-	nature la-c and Desi c. US EPA N cepted and to the	tinatior Number  e best of  c. Re  d. Ph	m Site completes III d. Discrepancy Indicator my knowledge the fore aplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true g. Date	and accur		
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator compensator's Name and Address:  Phone:  Pereby Certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator compensator's Name and Address:  Phone:  Pereby Certify that the above named mater  Phone:  Pereby Certify that the above named mater  Name of Authorized Agent (Print)  ASBESTOS (Generator compensator)  Phone:	d. Signor complete II  rial has been accompletes IVa-	nature la-c and Desi c. US EPA N cepted and to the	tinatior Number  e best of  c. Re  d. Ph	m Site completes III d. Discrepancy Indicator my knowledge the fore aplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true g. Date	and accur		ping nan
Phone:  Driver Name (Print)  DESTINATION (Generate Disposal Facility and Site Address:  Pereby certify that the above named material description of Authorized Agent (Print)  ASBESTOS (Generator comperator's Name and Address:  Phone:  Pecial Handling Instructions and Addition  Friable  Non-Friable  Both  ERATOR'S CERTIFICATION: I hereby deare classified, packaged, marked and lateral governmental regulations.	d. Signor complete II  rial has been accompletes IVa-	nature la-c and Desi c. US EPA N cepted and to the	tinatior Number  e best of  c. Re  d. Ph	m Site completes III d. Discrepancy Indicator my knowledge the fore aplete IVg-i) esponsible Agency Name	e. Date d-g) ation Space: going is true g. Date	and accur		ping nan
Phone:  Driver Name (Print)  DESTINATION (Generated Disposal Facility and Site Address:  Properator's Name and Address:  Phone:  Special Handling Instructions and Addition	d. Signor complete II  rial has been accompletes IVa- nal Information:  % Fria eclare that the cobeled/placarded,	c. US EPA N  cepted and to the ture f and Operate  able ontents of this co and are in all re	tinatior Number  be best of  c. Re  d. Pr  % No	n Site completes III d. Discrepancy Indicate implementation of the state of the sta	e. Date d-g) ation Space: going is true g. Date ne and Addre	e and accur	the proper ship	tional and



# REPUBLIC NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST SERVICES

1197204

I. GENERATOR (Generato	or completes						
a. Generator's US EPA ID Number		b. Manifest Docun	nent Number		c. Page	1 of	
d. Generator's Name and Location:			e. Generator's Mailing	Address:			
Flerada En ironosadat Resp 510 Fourth Street				okar Er Ste			
f. Phone: Henderson, Neveda ROO1	5 912 498 25	300	g. Phone: Chicago	H_60606			
If owner of the generating facility differs from	om the generator	r, provide:					
h. Owner's Name:	BUILDING		i. Owner's Phone No.:		2 498 28		
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	ping Name and	M. Cor	Type	n. Total Quantity	o. Unit Wt/Vol
		Silvan Edmonto	stous. Non-Pegulated		1		
3825 19 12625	3515014	Soil	stone, totte egimetes	4	DT	20	Y
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and pac	kaged, and is in prop ardous waste subject	er condition for transport to the Land Disposal Re	tation accordir estrictions. I ce	ig to applic ertify and w	cable regulations; varrant that the wa	AND, If this
ALLES TELLISIES					- Data		
p. Generator Authorized Agent Name (Pri		q. Signature	1	II. al	r. Date		
II. TRANSPORTER (Gene	rator complet	tes lia-b and I rai	nsporter completes	lic-e)			
a. Transporter's Name and Address:							
Las Vehas Hevada (1911) b. Phone:	702-645-5						
A Transaction				1/16	2 -	4-13	
c. Driver Name (Print)		nature		e. Date			
III. DESTINATION (General	tor complete						
a. Disposal Facility and Site Address:		c. US EPA Nun	nber d. Discrepancy Ir	ndication Spac	e:		
LESSYLL'S Filghway servior							
Las Vegas Plevada 89 (65							
b.			and of my lenguilades the	foregoing is t	ruo and ac	ecurate	
I hereby certify that the above named ma	tenai nas been a	eccepted and to the b	est of thy knowledge the	loregoing is t	ue and ac	curate.	
e. Name of Authorized Agent (Print)		nature	4 4 4 4	g. Date			
IV. ASBESTOS (Generator	completes IV	a-f and Operator					
a. Operator's Name and Address:			c. Responsible Agency	/ Name and Ad	ddress:		
b. Phone:	+ 172		d. Phone:				
e. Special Handling Instructions and Addi	tional Informatio	n:					
f. ☐ Friable ☐ Non-Friable ☐ Both	1 %	Friable	% Non-Friable				
OPERATOR'S CERTIFICATION: I hereb and are classified, packaged, marked and national governmental regulations.	v declare that the	e contents of this con ded, and are in all res	signment are fully and a pects in proper condition	ccurately desc for transport	ribed abov according	ve by the proper s to applicable inte	shipping name rnational and
Transfer go strains that regulations					AND PUBL		
g. Operator's Name and Title (Print)	h Sir	gnature		i. Date			
*Operator refers to the company which ov	wns, leases, ope	rates, controls, or sup	pervises the facility being		r renovate	d, or the demolities	on or
renovation operation or both							



1197209

I. GENERATOR (Generate	or completes l	a-r)										
a. Generator's US EPA ID Number		b. Manifest Docur	ment Number c. Page 1 of									
d. Generator's Name and Location:			e. Generator's Mailing Address:									
hier ada Environmental Flesh 510 Fourth Street f. Phone: Handerson Newada 8001			g. Phone: Chicago II 60606									
If owner of the generating facility differs fr	om the generator,	, provide:		eana/								
h. Owner's Name:			i. Owner's Phone No.: 312-498-2800									
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	ping Name and	m. Cor No.	tainers Type	n. Total Quantity	o. Unit Wt/Vol					
3625 19 12625	3/31/2014	Non Hazar Soil	indous, Non-Regulated 1 DT 20 Y									
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.												
Of the Manual acting as announced agent for the MENT.												
p. Generator Authorized Agent Name (Pri		ı. Signature	4		r. Date							
II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)  a. Transporter's Name and Address:												
4660 Flippin Street Las Velgas Nevada 89115 702-645-5848 b. Phone:												
lected 10-04-13												
c. Driver Name (Print)	d. Sign											
III. DESTINATION (General	or complete II			0,								
a. Disposal Facility and Site Address:  And the Landing Hard Company of the Landing Ha	p.	c. US EPA Nun	nber d. Discrepancy Indica	tion Space	<b>3</b> :							
I hereby certify that the above named mat	erial has been ac	cepted and to the be	est of my knowledge the fore	going is tr	ue and ac	curate.						
e. Name of Authorized Agent (Print) f. Signature g. Date												
IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)												
a. Operator's Name and Address:  c. Responsible Agency Name and Address:												
b. Phone: d. Phone:												
e. Special Handling Instructions and Addit	ional Information:											
f. 🗆 Friable 🗆 Non-Friable 🗆 Both		riable	% Non-Friable									
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and national governmental regulations.	declare that the labeled/placarde	contents of this cons d, and are in all resp	signment are fully and accura pects in proper condition for	ately descr transport a	ibed above ccording t	e by the proper sho o applicable interr	national and					
				HILLY.								
g. Operator's Name and Title (Print) *Operator refers to the company which ow	h. Sign		ervises the facility being don	i. Date	renovator	or the demolitic	n or					
renovation operation or both	nis, icases, opera	nos, controls, or sup	ervises the racility being defi	ionarieu or	removated	, or the demonto	1 01					



1197214

I. GENERATOR (Generate	or comple	etes la-r)										
a. Generator's US EPA ID Number		b.	Manifest Docur	ment Number		c. Page	1 of					
d. Generator's Name and Location:				e. Generator's Mailing Ad	dress:	-						
Heyada En gronnental Rest	conse Ins	( AMERIT)		SEE W. S.								
f. Phone: Handerson, Nevada 8901	5 712-8	98 2800		a Phone: Chicago, IL		1930						
If owner of the generating facility differs fr			vide:	g. Phone: Macego, H.	The state of the s	700						
h. Owner's Name:			i. Owner's Phone No.:									
j. Waste Profile #	k. Exp. Da	ate	I. Waste Ship	ping Name and	m. Co	ntainers	n. Total	o. Unit				
			Description		No.	Туре	Quantity	Wt/Vol				
			Hon Hazar	dous, Non Regulated								
3625 13 12625	30172	014	Soil		1	DT	20	Y				
		-										
			200				3133					
					100		Hamilton .					
GENERATOR'S CERTIFICATION: I here	by certify th	at the abo	ve named mate	rial is not a hazardous wast	e as define	ed by 40 C	FR 261 or any ap	plicable				
state law, has been properly described, cl waste is a treatment residue of a previous	ly restricted	hazardou	s waste subject	to the Land Disposal Restri	ictions I ce	ertify and w	varrant that the wa	AND, if this				
been treated in accordance with the requi	rements of	40 CFR 26	88 and is no long	ger a hazardous waste as d	efined by 4	0 CFR 26	1.					
A HA SHIMA						101	1001 7	1/3				
p. Generator Authorized Agent Name (Prin	nt)	q. Sig	nature	r. Date								
II. TRANSPORTER (Gene	rator com	pletes II	a-b and Tran	sporter completes lic-	e)							
a. Transporter's Name and Address:												
4060 Finnin Street Las Verjas Nevada 89115	700 8	15 5848										
b. Phone:												
TOSE HUNTO		1			10.	-4-	13	List to				
c. Driver Name (Print)	d	. Signature	9		e. Date	1	-					
III. DESTINATION (Generat	or comple	ete Illa-c	and Destina	tion Site completes III	d-g)		70					
a. Disposal Facility and Site Address:	n		c. US EPA Num	ber d. Discrepancy Indica	ation Space	9:						
Las Vegas Nevado 99 (65												
b. I hereby certify that the above named mate	erial has he	en accente	ed and to the he	est of my knowledge the fore	agoing is tr	ue and acc	ourata					
		оп досори	od and to the be	of or my knowledge the fore	going is th	ue anu aci	Surate.					
e. Name of Authorized Agent (Print)	f	Signature			a Data	-						
IV. ASBESTOS (Generator of			nd Operator	complete IVa-i)	g. Date	-						
a. Operator's Name and Address:	on protoc	3 1 4 4 1 4		c. Responsible Agency Nar	me and Ad	droce:						
				c. responsible Agency Hai	ile and Au	uless.						
b. Phone:				d. Phone:								
e. Special Handling Instructions and Additi	ional Inform	ation:					Television of the last					
f. ☐ Friable ☐ Non-Friable ☐ Both		% Friable		% Non-Friable								
OPERATOR'S CERTIFICATION: I hereby and are classified, packaged, marked and	declare tha	t the conte	ents of this consi	ignment are fully and accura	ately descr	ibed above	by the proper sh	ipping name.				
national governmental regulations.	aboled/plat	oarueu, all	d are in all resp	ocio in proper condition for t	uansport a	ccording to	applicable interr	iational and				
g. Operator's Name and Title (Print)	h	Signature			i. Date							
*Operator refers to the company which own	ns, leases,	operates, o	controls, or supe	rvises the facility being dem	nolished or	renovated	, or the demolition	n or				
renovation operation or both												



1197213

a. Generator's US EPA ID Number b. Manifest Document Number c. Page 1 of												
d. Generator's Name and Location:  e. Generator's Mailing Address:												
Mevada Environmental Response Trust (NERT)												
510 Fourth Street 35 E. Wacker Dr. Ste 1990												
f. Phone:  If owner of the generating facility differs from the generator, provide:	g. Phone: Chicago, IL 60606											
h. Owner's Name: i. Owner's Phone No.: i. Waste Profile # k. Exp. Date l. Waste Shipping Name and m. Containers n. Total o. Unit												
j. Waste Profile # k. Exp. Date l. Waste Shipping Name and m. Containers n. Total o. Unit Description No. Type Quantity Wt/Vol												
Non Hazardous, Non Regulated												
3625 13 12625 3/31/2014 Soil 1 DT 20 Y												
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable												
state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if t	this											
waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has												
been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.												
1111 111111	8 4 86 1 2613											
	r. Date											
ii. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)  a. Transporter's Name and Address:												
4660 Flippin Street												
Las Vettas Nevada 89115 702-645-5848 b. Phone:												
GF0 (-01) 10/11/13												
c. Driver Name (Print) d. Signature e. Date	e. Date											
III. DESTINATION (Generator complete Illa-c and Destination Site completes Illd-g)												
a. Disposal Facility and Site Address: c. US EPA Number d. Discrepancy Indication Space:												
Apex Regional Landfill Lippov Lip Highway His Hight												
Las Vegas Nevada 89 (65												
b.												
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.												
e. Name of Authorized Agent (Print) f. Signature g. Date	- 1											
IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)												
a. Operator's Name and Address:  c. Responsible Agency Name and Address:												
b. Phone:  e. Special Handling Instructions and Additional Information:  d. Phone:												
f. ☐ Friable ☐ Non-Friable ☐ Both												
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping r	name											
and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international	and											
national governmental regulations.												
g. Operator's Name and Title (Print) h. Signature i. Date  *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or												
renovation operation or both												



1197212

a. Generator's Name and Location:    Description   Descrip	
f. Phone:  If owner of the generating facility differs from the generator, provide:  h. Owner's Name:  j. Waste Profile #  k. Exp. Date  I. Waste Shipping Name and Description  Descriptio	
f. Phone:  If owner of the generating facility differs from the generator, provide:  h. Owner's Name:  j. Waste Profile #  k. Exp. Date  I. Waste Shipping Name and Description  Description  Description  G. Phone:  i. Owner's Phone No.:  I. Waste Shipping Name and Description  No. Type Quantity  Wto	
h. Owner's Name:  j. Waste Profile #  k. Exp. Date  I. Waste Shipping Name and Description  I. Waste Shipping Name and No. Type Quantity  Wt	
j. Waste Profile # k. Exp. Date l. Waste Shipping Name and Description No. Type Quantity Wt.	
j. Waste Profile # k. Exp. Date l. Waste Shipping Name and m. Containers n. Total Description No. Type Quantity Wt.	
Hon Hazardous, Hon Regulated	Vol
COS TO ANALONE CONTINUENT OF THE PARTY OF TH	
3625 Ta 12625 9/41/2014 Soil 1 DT 20 Y	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste heen treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.	if thin
1 1/1/1/ of EHVIRON acting as authorized agent for the MERT	
p. Generator Authorized Agent Name (Print) q. Signature r. Date	- 60
II. TRANSPORTER (Generator completes Ila-b and Transporter completes Ilc-e)	
a. Transporter's Name and Address:	
4c60 Ficoio Streal b. Phone: <sup>1</sup> as Vectas Nevada 89115 702 645 5948	
c. Driver Name (Print) d. Signature e. Date	
III. DESTINATION (Generator complete Illa-c and Destination Site completes Illd-g)	
a. Disposal Facility and Site Address:  c. US EPA Number d. Discrepancy Indication Space:	
1995 Ferrora harafu, pono	
b. Las Vagas Nevada 99165	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.	
, was a second of the condition of the c	
e. Name of Authorized Agent (Print) f. Signature g. Date	- 1
IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)	
a. Operator's Name and Address:  c. Responsible Agency Name and Address:	
a. Hoopshalle / gently Halle and Address.	
b. Phone: d. Phone:	3113
e. Special Handling Instructions and Additional Information:	
f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international contents.	
national governmental regulations.	name, and
national governmental regulations.	name, and
g. Operator's Name and Title (Print)  h. Signature  *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or	name, and



1197211

I. GENERATOR (Generato	or complete												
a. Generator's US EPA ID Number		b.	Manifest Docu	ment I	Number		c. Page	1 of					
d. Generator's Name and Location:				e. 0	Senerator's Mailing Add	ress:							
Pievada Environmental Respi	onse Trust (la	FRE											
f. Phone: 510 Fourth Street				q. F	Phone: 35 E Wacke	r Dr. Ste 1	550						
If owner of the generating facility differs fro	om the genera	tor, prov	vide:	Chicago, IL 60606									
h. Owner's Name:			1 1 101 - 1 - 01:		wner's Phone No.:	m. Con	talwaya	n. Total	a Unit				
j. Waste Profile #	k. Exp. Date		I. Waste Ship Description	oping	o. Unit Wt/Vol								
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GENERATOR'S CERTIFICATION: I herel	by certify that	the abo	ve named mate	erial is	not a hazardous waste	as define	d by 40 Cl	FR 261 or any ap	oplicable				
state law, has been properly described, cla	assified and pa	ackaged	d, and is in prop	per co	ndition for transportatio	n accordin	g to applic	able regulations	AND, if this				
waste is a treatment residue of a previous									aste has				
been treated in accordance with the requir	ements of 40	CFR 20	ob and is no ion	iger a	nazardous waste as de	elified by 4	U CFR 20	7 7 .					
of GVVIS	ed agent for th	in NE	at .		1601 213								
p. Generator Authorized Agent Name (Prin	nature				r. Date								
II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)													
a. Transporter's Name and Address:				-									
Werdso													
4660 Flippin Street													
b. Phone:   as Wagas Hayarda 90115	702 645	50.40											
S. Friend.		20110											
						e. Date							
c. Driver Name (Print)	e	100											
III. DESTINATION (Generat													
a. Disposal Facility and Site Address:			c. US EPA Nur	mber	d. Discrepancy Indica	ation Space	e:						
Annual Construct Constitution		100											
Ape: Regional Landfill	n												
b. Las Vegas Nevada 89 165													
I hereby certify that the above named mate	erial has been	accept	ed and to the b	est of	my knowledge the fore	going is tr	ue and ac	curate.					
e. Name of Authorized Agent (Print)	f S	gnature				g. Date							
		Andrew Commence		- 000	ploto IV/a iV	g. Date							
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			15 14 19 1										
b. Phone:	hone:												
e. Special Handling Instructions and Addit	ional Informat	on:							74 - 14 TO				
The second second second second													
f. Friable Non-Friable Both	0	6 Friabl	е	% N	Ion-Friable								
OPERATOR'S CERTIFICATION: I hereby	declare that t	he conte	ents of this con	signm	ent are fully and accur-	ately descr	ibed abov	e by the proper s	shipping name,				
and are classified, packaged, marked and	labeled/placa	rded, ar	nd are in all res	pects	in proper condition for	transport a	ccording t	o applicable inte	rnational and				
national governmental regulations.		1											
Marie Salada de Carlo					THE REAL PROPERTY.								
g. Operator's Name and Title (Print)	h S	ignatur	e			i. Date							
*Operator refers to the company which ow				pervis	es the facility being der		renovated	d, or the demoliti	on or				
renovation operation or both							LEE						



1197210

I. GENERATOR (Generate	or completes												
a. Generator's US EPA ID Number		b. Manifest Document	ment Number		c. Page	1 of							
d. Generator's Name and Location:			e. Generator's Mailing Ad	dress:									
Menada Environmental Resp	ionse Trust (III	ERD											
510 Fourth Street			35 E Wack	er Dr. Ste									
f. Phone:  If owner of the generating facility differs fi	rom the generate	or, provide:	g. Phone:	60606									
	- and gonoral	011 p1011001											
h. Owner's Name:	k. Exp. Date	I Waste Shir	pping Name and m. Containers n. Total o. Unit										
j. vrdoto i rollo ii	K. Exp. Bate	Description	philip Hamo and	No.	Туре	Quantity	Wt/Vol						
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						DESCRIPTION OF THE PERSON OF T							
GENERATOR'S CERTIFICATION: I here													
state law, has been properly described, c waste is a treatment residue of a previous	lassified and pa- sly restricted haz	ckaged, and is in prop zardous waste subject	per condition for transportation to the Land Disposal Restri	on accordin	ig to applic ertify and v	cable regulations	s; AND, if this						
been treated in accordance with the requi							vadio nad						
of FRVI	RON acting as a	aborized agent for the	INTERT		- 133								
p. Generator Authorized Agent Name (Pri	int)	q. Signature			r. Date								
II. TRANSPORTER (Gene	rator comple	etes Ila-b and Trai	nsporter completes lic-	-e)									
a. Transporter's Name and Address:													
4660 Flippin Street													
b. Phone:	702-645-5	18 48											
b. Filone.													
District (District	1.0												
c. Driver Name (Print)  III. DESTINATION (General		gnature	ation Site completes III	e. Date									
a. Disposal Facility and Site Address:	tor complete	c. US EPA Nun		0,	ο.								
个5500F1090P用小棚部里 11107				anon opac									
Las Vegas Nevada 89 (65													
b.													
I hereby certify that the above named ma	terial has been a	accepted and to the be	est of my knowledge the fore	egoing is tr	ue and ac	curate.							
MACH		A Demi	M		14	118							
e. Name of Authorized Agent (Print)	100	nature		g. Date									
IV. ASBESTOS (Generator	completes IV	/a-f and Operator	complete IVg-i)										
a. Operator's Name and Address:			c. Responsible Agency Na	me and Ad	dress:								
h Dhana			a person										
b. Phone:     e. Special Handling Instructions and Addition	tional Informatio	on:	d. Phone:										
f. ☐ Friable ☐ Non-Friable ☐ Both	0/2	Friable	% Non-Friable			-							
OPERATOR'S CERTIFICATION: I hereby	declare that the	e contents of this cons	signment are fully and accur										
and are classified, packaged, marked and national governmental regulations.	l labeled/placaro	ded, and are in all resp	pects in proper condition for	transport a	ccording t	o applicable inte	ernational and						
national governmental regulations.													
g. Operator's Name and Title (Print)  *Operator refers to the company which ow		gnature rates, controls, or sup	ervises the facility being der	i. Date	renovate	d, or the demoliti	on or						
renovation operation or both	годост, оро	and controller or out	and the lasting boning der	,	- On Orace	a, or the demont	S.(1.5)						

All Ticket Types

History and Waiting

001031- ENVIRON INTERNATIONAL CORP

Ticket Date	Fac	Facility & Ticket	Contract	Truck #	Container	Material
10/02/2013	Н	81	37669 3825 13 12625	89896P	1197183	SW CONTAMI
10/02/2013	Н	81	37670 3825 13 12625	85487P	1197180	SW CONTAMI
10/02/2013	Н	81	37671 3825 13 12625	92148P	1197184	SW CONTAMI
10/02/2013	П	81	37672 3825 13 12625	77286P	1197181	SW CONTAMI
10/02/2013	Н	81	37677 3825 13 12575	89896P	1197233	ASBESTOS NC
10/02/2013	н	81	37678 3825 13 12575	92148P	1197235	ASBESTOS NO
10/02/2013	Н	81	37679 3825 13 12575	77286P	1197236	ASBESTOS NC
10/02/2013	Н	81	37682 3825 13 12575	85487P	1197228	ASBESTOS NC
10/02/2013	П	81	37685 3825 13 12575	85487P	1197242	ASBESTOS NO
10/02/2013	Н	81	37686 3825 13 12575	77286P	1197241	ASBESTOS NC
10/02/2013	-	81	37687 3825 13 12575	92148P	1197238	ASBESTOS NC
10/02/2013	Н	81	37688 3825 13 12575	89896P	1197239	ASBESTOS NC
10/02/2013	-	81	37692 3825 13 12575	77286P	1197244	ASBESTOS NC
10/03/2013	Н	81	37697 3825 13 12575	92338P	1197247	ASBESTOS NC
10/03/2013	-	81	37699 3825 13 12575	89896P	1197246	ASBESTOS NC
10/03/2013	н	81	37701 3825 13 12575	93051P	1197243	ASBESTOS NC
10/03/2013	н	81	37702 3825 13 12575	92148P	1197249	ASBESTOS NC
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10/03/2013	н	81	37707 3825 13 12625	92338P	1197186	SW CONTAMI
10/03/2013	-	81	37708 3825 13 12625	92148P	1197190	SW CONTAMI
10/03/2013	н	81	37709 3825 13 12625	93051P	1197196	SW CONTAMI
10/03/2013	н	81	37710 3825 13 12625	89896P	1197185	SW CONTAMI
10/03/2013	н	81	37712 3825 13 12625	77286P	1197187	SW CONTAMI
10/03/2013	н	81	37714 3825 13 12625	92148P	1197188	SW CONTAMI
10/03/2013	н	81	37715 3825 13 12625	92338P	1197189	SW CONTAMI
10/03/2013	н	81	37718 3825 13 12625	92337P	1197193	SW CONTAMII
10/03/2013	н	81	37720 3825 13 12625	93051P	1197192	SW CONTAMII
10/03/2013	Н	81	37721 3825 13 12625	77286P	1197195	SW CONTAMI
10/03/2013	н	81	37723 3825 13 12625	92148P	1197197	SW CONTAMII
10/03/2013	Н	81	37724 3825 13 12625	92338P	1197194	SW CONTAMII
10/03/2013	н	81	37727 3825 13 12625	93051P	1197198	SW CONTAMII
10/03/2013	н	81	37728 3825 13 12625	92337P	1197200	SW CONTAMII
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# **Detail Customer Activity Report**

October 01, 2013 to October 08, 2013

Specific Customer: 1031

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INATED SOIL INATED SOIL

Quantity

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### Appendix G

Analytical Laboratory Reports and Chain-of-Custody Documentation



THE LEADER IN ENVIRONMENTAL TESTING

### **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Irvine 17461 Derian Ave Suite 100

Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-58969-1

TestAmerica Sample Delivery Group: 21-32100 E-E01

Client Project/Site: East End Beta Ditch

For:

ENVIRON International Corp. 2200 Powell Street Suite 700 Emeryville, California 94608

Attn: Mr. Dan Clark

Surnistra Resay

Authorized for release by: 10/15/2013 4:11:33 PM

Sushmitha Reddy, Project Manager I (949)261-1022

sushmitha.reddy@testamericainc.com

----- Links -----

Review your project results through

Total Access

**Have a Question?** 



**Visit us at:**www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1 SDG: 21-32100 E-E01

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Table of Contents	2
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Client Sample Results	6
Method Summary	12
Chronicle	13
QC Sample Results	16
QC Association	24
Definitions	29
Certification Summary	30
Subcontract Data	31
Chain of Custody	33
Receipt Checklists	

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### **Sample Summary**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-58969-1	EBD-100713-B	Solid	10/07/13 07:30	10/08/13 10:25
440-58969-2	EBD-100713-N-SW	Solid	10/07/13 07:40	10/08/13 10:25
440-58969-3	EBD-100713-W-SW	Solid	10/07/13 07:50	10/08/13 10:25
440-58969-4	EBD-100713-S-SW	Solid	10/07/13 08:00	10/08/13 10:25

### **Case Narrative**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Job ID: 440-58969-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-58969-1

### Comments

No additional comments.

The samples were received on 10/8/2013 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

### **HPLC**

Method(s) 314.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136622 in perchlorate were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (440-58969-1 MS), (440-58969-1 MSD)

Method(s) 9056: The continuing calibration verification (CCV) for phosphate associated with batch 136257 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 9056: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for phosphate in batch 136257 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 9056: The laboratory control sample (LCS) for batch 136257 recovered outside control limits for the following analyte: phosphate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

### GC Semi VOA

Method(s) 8081A: Surrogate recovery for the following sample(s) was outside control limits: EBD-100713-N-SW (440-58969-2), EBD-100713-S-SW (440-58969-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The matrix spike (MS) recoveries associated with batch 136344 were outside control limits: (440-58969-1 MS), (440-58969-1 MSD). Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 136370 recovered outside acceptance criteria, low biased, for 4.4-DDT and Methoxychlor. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. Any samples containing hits for either compound were re-analyzed. (CCV 440-136370/28), EBD-100713-B (440-58969-1), EBD-100713-N-SW (440-58969-2), EBD-100713-S-SW (440-58969-4), EBD-100713-W-SW (440-58969-3)

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: EBD-100713-S-SW (440-58969-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.EBD-100713-S-SW (440-58969-4)

Method(s) 8082: The following sample(s) was diluted due to the abundance of non-target analytes: EBD-100713-S-SW (440-58969-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

### Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136445 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Analyte affected: Barium.

No other analytical or quality issues were noted.

### **Case Narrative**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### Job ID: 440-58969-1 (Continued)

### Laboratory: TestAmerica Irvine (Continued)

### **General Chemistry**

Method(s) 9034: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 136468 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

### Subcontract non-Sister

No analytical or quality issues were noted.

### **Organic Prep**

No analytical or quality issues were noted.

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Date Collected: 10/07/13 07:30 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-1

. Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
4,4'-DDE	44		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
4,4'-DDT	15		9.9	3.0	ug/Kg		10/09/13 10:13	10/10/13 14:53	2
Aldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
alpha-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
beta-BHC	2.1	J p	5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Chlordane (technical)	ND		50	9.9	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
delta-BHC	ND		9.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Dieldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan I	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan II	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Endrin ketone	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Heptachlor	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Methoxychlor	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Toxaphene	ND		200	50	ug/Kg		10/09/13 10:13	10/09/13 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		35 - 115				10/09/13 10:13	10/09/13 19:27	1
DCB Decachlorobiphenyl (Surr)	93		45 - 120				10/09/13 10:13	10/09/13 19:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1221	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1232	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1242	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1248	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1254	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Aroclor 1260	ND		50	12	ug/Kg		10/09/13 10:13	10/09/13 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
								10/00/10 17 10	
DCB Decachlorobiphenyl (Surr)  Method: 314.0 - Perchlorate (IC	57 C) - Soluble		45 - 120				10/09/13 10:13	10/09/13 17:40	1
Method: 314.0 - Perchlorate (IC Analyte	S) - Soluble Result	Qualifier	RL		Unit	D	10/09/13 10:13 Prepared	Analyzed	Dil Fac
Method: 314.0 - Perchlorate (IC	c) - Soluble	Qualifier			Unit mg/Kg	<u>D</u>			Dil Fac 10
Method: 314.0 - Perchlorate (IC Analyte	S) - Soluble Result 0.92	Qualifier	RL			<u>D</u>		Analyzed	
Method: 314.0 - Perchlorate (IC Analyte Perchlorate	S) - Soluble Result 0.92  cavalent (IC)	Qualifier Qualifier	RL	0.095		<u>D</u>		Analyzed	
Method: 314.0 - Perchlorate (IC Analyte Perchlorate Method: 7199 - Chromium, Hex	S) - Soluble Result 0.92  cavalent (IC)		RL 0.40	0.095 <b>MDL</b>	mg/Kg		Prepared	Analyzed 10/12/13 05:30	10
Method: 314.0 - Perchlorate (IC Analyte Perchlorate Method: 7199 - Chromium, Hex Analyte	Result (IC) Result ND	Qualifier		0.095 <b>MDL</b>	mg/Kg		Prepared Prepared	Analyzed 10/12/13 05:30 Analyzed	10 Dil Fac
Method: 314.0 - Perchlorate (IC Analyte Perchlorate Method: 7199 - Chromium, Hex Analyte Cr (VI)	Result (IC) Result ND  romatography - 5	Qualifier		0.095 MDL 0.15	mg/Kg		Prepared Prepared	Analyzed 10/12/13 05:30 Analyzed	10 Dil Fac
Method: 314.0 - Perchlorate (IC Analyte Perchlorate Method: 7199 - Chromium, Hex Analyte Cr (VI) Method: 9056 - Anions, Ion Chi	Result (IC) Result ND  romatography - 5	Qualifier	RL 0.80	0.095 MDL 0.15	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  10/09/13 15:06	Analyzed 10/12/13 05:30  Analyzed 10/10/13 05:23	10  Dil Fac  10
Method: 314.0 - Perchlorate (IC Analyte Perchlorate Method: 7199 - Chromium, Hex Analyte Cr (VI) Method: 9056 - Anions, Ion Chi Analyte	Result 0.92  avalent (IC)  Result ND  romatography - S  Result	Qualifier	RL 0.80	0.095  MDL  0.15	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared  Prepared  10/09/13 15:06	Analyzed 10/12/13 05:30  Analyzed 10/10/13 05:23  Analyzed	10  Dil Fac  10

TestAmerica Irvine

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Date Collected: 10/07/13 07:30 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-1

Matrix: Solid

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 18:49	5
Manganese	470		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 18:49	5
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.77		0.100	0.100	SU			10/09/13 13:13	1
Oxidation Reduction Potential	430		0.10	0.10	millivolts			10/09/13 13:13	1

Client Sample ID: EBD-100713-N-SW

Date Collected: 10/07/13 07:40

Date Received: 10/08/13 10:25

Lab Sample ID: 440-58969-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
4,4'-DDE	21		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
4,4'-DDT	23		9.8	2.9	ug/Kg		10/09/13 10:13	10/10/13 15:08	2
Aldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
alpha-BHC	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
beta-BHC	17		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Chlordane (technical)	ND		49	9.8	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
delta-BHC	ND		9.8	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Dieldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan I	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan II	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Endrin ketone	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Heptachlor	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Methoxychlor	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Toxaphene	ND		200	49	ug/Kg		10/09/13 10:13	10/09/13 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		35 - 115				10/09/13 10:13	10/09/13 19:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
Tetrachloro-m-xylene	81		35 _ 115	10/09/13 10:13	10/09/13 19:41	1
DCB Decachlorobiphenyl (Surr)	143	X	45 - 120	10/09/13 10:13	10/09/13 19:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method. 0002 - Folychlorhated Dip	niellyla (FCD:	s, by Gas Cili	Ullialography	•					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1221	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1232	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1242	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1
Aroclor 1248	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	1

TestAmerica Irvine

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-N-SW

Date Collected: 10/07/13 07:40 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aroclor 1254	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	
Aroclor 1260	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 17:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl (Surr)	115		45 - 120				10/09/13 10:13	10/09/13 17:56	
Method: 314.0 - Perchlorate (IC)	) - Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Perchlorate	46		4.0	0.95	mg/Kg			10/12/13 08:41	100
Method: 7199 - Chromium, Hex	avalent (IC)								
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Cr (VI)	0.25	J	0.79	0.15	mg/Kg		10/09/13 15:06	10/10/13 05:48	10
Method: 9056 - Anions, Ion Chr									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Nitrate as N	16		1.1	0.80	mg/Kg			10/09/13 03:39	
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 03:39	
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 03:39	
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Arsenic	5.4		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 17:51	
Manganese	550		2.0	1.0	mg/Kg		10/09/13 14:09	10/09/13 17:51	:
General Chemistry									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Cyanide, Total	ND		0.50		mg/Kg		10/09/13 15:40	10/09/13 19:49	
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	
General Chemistry - Soluble									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
pH	8.49		0.100	0.100				10/09/13 13:14	•
Oxidation Reduction Potential	450		0.10	0.10	millivolts			10/09/13 13:13	•

Client Sample ID: EBD-100713-W-SW

Date Collected: 10/07/13 07:50

Date Received: 10/08/13 10:25

Lab Sample ID: 440-58969-3

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
4,4'-DDE	4.9		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
4,4'-DDT	3.0	J	4.9	1.5	ug/Kg		10/09/13 10:13	10/10/13 15:22	1
Aldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
alpha-BHC	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
beta-BHC	8.2		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Chlordane (technical)	ND		49	9.9	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
delta-BHC	ND		9.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Dieldrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endosulfan I	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1

TestAmerica Irvine

RL

MDL Unit

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Prepared

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-W-SW

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Result Qualifier

Date Collected: 10/07/13 07:50 Date Received: 10/08/13 10:25

Analyte

Lab Sample ID: 440-58969-3

Matrix: Solid

Analyzed

		Qualifier	NL	WIDL			riepaieu	Allalyzeu	
Endosulfan II	ND	_	4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Endrin ketone	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Heptachlor	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Methoxychlor	ND		4.9	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Toxaphene	ND		200	49	ug/Kg		10/09/13 10:13	10/09/13 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	56		35 - 115				10/09/13 10:13	10/09/13 20:10	1
DCB Decachlorobiphenyl (Surr)	92		45 - 120				10/09/13 10:13	10/09/13 20:10	1
- Method: 8082 - Polychlorinated Bi	iphenyls (PCE	Bs) by Gas	Chromatograph	ıy					
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1221	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1232	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1242	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1248	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1254	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Aroclor 1260	ND		49	12	ug/Kg		10/09/13 10:13	10/09/13 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		45 - 120				10/09/13 10:13	10/09/13 18:26	1
Method: 314.0 - Perchlorate (IC) -	Soluble								
Method: 314.0 - Perchlorate (IC) - Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 4.0		Unit mg/Kg	D	Prepared	Analyzed 10/12/13 09:23	Dil Fac
Analyte	Result 42	Qualifier				<u>D</u>	Prepared		
Analyte Perchlorate	Result 42 alent (IC)	Qualifier  Qualifier			mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Perchlorate  Method: 7199 - Chromium, Hexava	Result 42 alent (IC)		4.0	0.95	mg/Kg			10/12/13 09:23	100
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte	Result 42 alent (IC) Result ND	Qualifier	4.0	0.95	mg/Kg Unit		Prepared	10/12/13 09:23 Analyzed	100
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)	Result 42 alent (IC) Result ND natography - 9	Qualifier	4.0	0.95	mg/Kg  Unit mg/Kg		Prepared	10/12/13 09:23 Analyzed	100
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom	Result 42 alent (IC) Result ND natography - 9	Qualifier Soluble	4.0 RL 0.79	0.95  MDL  0.15	mg/Kg  Unit mg/Kg	D	Prepared 10/09/13 15:06	10/12/13 09:23  Analyzed  10/10/13 06:14	100  Dil Fac  10
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte	Result 42  alent (IC) Result ND  natography - S Result	Qualifier Soluble	4.0 RL 0.79	0.95  MDL  0.15  MDL  0.80	mg/Kg  Unit mg/Kg  Unit	D	Prepared 10/09/13 15:06	10/12/13 09:23  Analyzed  10/10/13 06:14  Analyzed	Dil Fac Dil Fac
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N	Result 42 alent (IC) Result ND natography - \$ Result 16	Qualifier  Soluble  Qualifier	4.0  RL 0.79  RL 1.1	0.95  MDL  0.15  MDL  0.80  1.1	mg/Kg  Unit mg/Kg  Unit mg/Kg	D	Prepared 10/09/13 15:06	Analyzed  Analyzed  10/10/13 06:14  Analyzed  10/09/13 03:53	100  Dil Fac  10  Dil Fac  10
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N	Result 42 alent (IC) Result ND natography - 3 Result 16 ND	Qualifier  Soluble  Qualifier	## 4.0    RL	0.95  MDL  0.15  MDL  0.80  1.1	mg/Kg  Unit mg/Kg  Unit mg/Kg mg/Kg	D	Prepared 10/09/13 15:06	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53	100  Dil Fac  10  Dil Fac  1  1  1
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P	Result 42 alent (IC) Result ND natography - S Result 16 ND ND	Qualifier  Soluble  Qualifier	## 4.0    RL	0.95  MDL 0.15  MDL 0.80 1.1 1.3	mg/Kg  Unit mg/Kg  Unit mg/Kg mg/Kg	D	Prepared 10/09/13 15:06	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53	100  Dil Fac  10  Dil Fac  1  1  1
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P  Method: 6010B - Metals (ICP)	Result 42 alent (IC) Result ND natography - S Result 16 ND ND	Qualifier  Soluble Qualifier	RL 0.79 RL 1.1 1.5 1.6	0.95  MDL 0.15  MDL 0.80 1.1 1.3	mg/Kg  Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 10/09/13 15:06  Prepared	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53 10/09/13 03:53	100  Dil Fac  10  Dil Fac  1  1  1
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P  Method: 6010B - Metals (ICP) Analyte	Result 42 alent (IC) Result ND natography - S Result 16 ND ND Result	Qualifier  Soluble Qualifier	## A.0    RL	0.95  MDL 0.15  MDL 1.3  MDL 1.5	mg/Kg  Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 10/09/13 15:06 Prepared Prepared	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53 10/09/13 03:53	Dil Fac  Dil Fac  10  Dil Fac  1  1  Dil Fac
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P  Method: 6010B - Metals (ICP) Analyte Arsenic	Result 42 alent (IC) Result ND natography - S Result 16 ND ND ND Result 5.4	Qualifier  Soluble Qualifier	RL 0.79  RL 1.1 1.5 1.6  RL 3.0	0.95  MDL 0.15  MDL 1.3  MDL 1.5	Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared  10/09/13 15:06  Prepared  Prepared  10/09/13 14:09	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53 10/09/13 03:53  Analyzed 10/09/13 17:53	100  Dil Fac  10  Dil Fac  1  1  Dil Fac  5
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P  Method: 6010B - Metals (ICP) Analyte Arsenic Manganese	Result 42 alent (IC) Result ND natography - S Result 16 ND ND Result 5.4 740	Qualifier  Soluble Qualifier	RL 0.79  RL 1.1 1.5 1.6  RL 3.0	0.95  MDL 0.15  MDL 1.3  MDL 1.5	mg/Kg  Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared  10/09/13 15:06  Prepared  Prepared  10/09/13 14:09	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53 10/09/13 03:53  Analyzed 10/09/13 17:53	100  Dil Fac  10  Dil Fac  1  1  Dil Fac  5
Analyte Perchlorate  Method: 7199 - Chromium, Hexava Analyte Cr (VI)  Method: 9056 - Anions, Ion Chrom Analyte Nitrate as N Nitrite as N Orthophosphate as P  Method: 6010B - Metals (ICP) Analyte Arsenic Manganese  General Chemistry	Result 42 alent (IC) Result ND natography - S Result 16 ND ND Result 5.4 740	Qualifier  Soluble Qualifier  *	## A.0    RL	0.95  MDL 0.15  MDL 0.80 1.1 1.3  MDL 1.5 0.99	mg/Kg  Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared  Prepared  Prepared  10/09/13 14:09  10/09/13 14:09	Analyzed 10/10/13 09:23  Analyzed 10/10/13 06:14  Analyzed 10/09/13 03:53 10/09/13 03:53 10/09/13 17:53 10/09/13 17:53	100  Dil Fac  10  Dil Fac  1  1  Dil Fac  5 5

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Dil Fac

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-W-SW

Date Collected: 10/07/13 07:50 Date Received: 10/08/13 10:25

Lab Sample ID: 440-58969-3

Matrix: Solid

- (	General Chemistry - Soluble									
1	Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
l į	pH	8.49		0.100	0.100	SU			10/09/13 13:14	1
L	Oxidation Reduction Potential	440		0.10	0.10	millivolts			10/09/13 13:13	1

Client Sample ID: EBD-100713-S-SW

Date Collected: 10/07/13 08:00

Toxaphene

Date Received: 10/08/13 10:25

Lab	Sample	:טו	440-58969-4
			Marketon Oallal

10/09/13 20:25

10/09/13 10:13

Matrix: Solid

Method: 8081A - Organoch	nlorine Pesticides (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	13	5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 20:25	1
4,4'-DDE	1300	200	60	ug/Kg		10/09/13 10:13	10/10/13 16:15	40
4.4'-DDT	940	99	30	ug/Kg		10/09/13 10:13	10/10/13 15:37	20

Aldrin 10/09/13 10:13 10/09/13 20:25 ND 5.0 1.5 ug/Kg alpha-BHC 2.8 J 5.0 1.5 ug/Kg 10/09/13 10:13 10/09/13 20:25 beta-BHC 37 5.0 1.5 ug/Kg 10/09/13 10:13 10/09/13 20:25 Chlordane (technical) ND 50 9.9 ug/Kg 10/09/13 10:13 10/09/13 20:25 delta-BHC ND 9.9 1.5 ug/Kg 10/09/13 10:13 10/09/13 20:25 Dieldrin ND 5.0 1.5 ug/Kg 10/09/13 10:13 10/09/13 20:25 Endosulfan I ND 5.0 10/09/13 10:13 10/09/13 20:25 1.5 ug/Kg **Endosulfan II** 99 30 ug/Kg 10/09/13 10:13 10/10/13 15:37 200

Endosulfan sulfate	ND	9.9	2.0 ug/Kg	10/09/13 10:13	10/09/13 20:25
Endrin	ND	5.0	1.5 ug/Kg	10/09/13 10:13	10/09/13 20:25
Endrin aldehyde	ND	5.0	1.5 ug/Kg	10/09/13 10:13	10/09/13 20:25
Endrin ketone	11	5.0	2.0 ug/Kg	10/09/13 10:13	10/09/13 20:25
gamma-BHC (Lindane)	ND	5.0	1.5 ug/Kg	10/09/13 10:13	10/09/13 20:25
Heptachlor	ND	5.0	2.0 ug/Kg	10/09/13 10:13	10/09/13 20:25
Heptachlor epoxide	ND	5.0	2.0 ug/Kg	10/09/13 10:13	10/09/13 20:25
Methoxychlor	ND	5.0	1.5 ug/Kg	10/09/13 10:13	10/09/13 20:25

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62	35 - 115	10/09/13 10:13	10/09/13 20:25	1
DCB Decachlorobiphenyl (Surr)	125 X	45 - 120	10/09/13 10:13	10/09/13 20:25	1

200

50 ug/Kg

DCB Decachlorobiphenyl (Surr)	125 X	45 - 120	10/09/13 10:13	10/09/13 20:25	

Method: 8082 - Polyc	niorinated Bipnenyis (PCBS) by Gas	Chromatography
Analyte	Result Qualifier	RL

ND

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1221	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1232	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1242	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1248	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1254	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20
Aroclor 1260	ND		990	240	ug/Kg		10/09/13 10:13	10/10/13 10:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121	X	45 - 120	10/09/13 10:13	10/10/13 10:16	20

Method: 314.0 - Perchlorate (IC) - Soluble
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motification in the following (i.e.)	0.00.0									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Perchlorate	6.2		0.40	0.095	mg/Kg			10/12/13 10:06	10	

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-S-SW

Date Collected: 10/07/13 08:00 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.52	J	0.79	0.15	mg/Kg		10/09/13 15:06	10/10/13 07:04	10
- Method: 9056 - Anions, Ion Chron	natography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.6		1.1	0.80	mg/Kg			10/09/13 04:08	
Nitrite as N	ND		1.5	1.1	mg/Kg			10/09/13 04:08	1
Orthophosphate as P	ND	*	1.6	1.3	mg/Kg			10/09/13 04:08	1
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 18:13	5
Manganese	1100		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 17:55	5
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.49	0.42	mg/Kg		10/09/13 15:40	10/09/13 19:49	1
Sulfide	ND		40	20	mg/Kg		10/09/13 15:44	10/09/13 15:48	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.63		0.100	0.100	SU			10/09/13 13:14	1
Oxidation Reduction Potential	430		0.10	0.10	millivolts			10/09/13 13:13	1

# **Method Summary**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV
7199	Chromium, Hexavalent (IC)	SW846	TAL IRV
9056	Anions, Ion Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL IRV
9045C	pH	SW846	TAL IRV
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	TAL IRV
Asbestos PLM	Asbestos	NONE	EMLab

### **Protocol References:**

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614 TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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### **Lab Chronicle**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-B

Date Collected: 10/07/13 07:30 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-1

Matrix: Solid

<del></del>	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 17:40	JM	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 19:27	KS	TAL IRV
Total/NA	Analysis	8081A		2			136716	10/10/13 14:53	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:24	SP	TAL IRV
Total/NA	Prep	3060A			1.25 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 05:23	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		136941	10/12/13 05:30	CH	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136532	10/09/13 18:49	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:13	TR	TAL IRV
Soluble	Leach	DI Leach			19.92 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.03 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.01 g	50 mL	136465	10/09/13 15:40	ВТ	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	ВТ	TAL IRV

Client Sample ID: EBD-100713-N-SW

Date Collected: 10/07/13 07:40

Date Received: 10/08/13 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.31 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 17:56	JM	TAL IRV
Total/NA	Prep	3546			15.31 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 19:41	KS	TAL IRV
Total/NA	Analysis	8081A		2			136716	10/10/13 15:08	KS	TAL IRV
Soluble	Leach	DI Leach			4.02 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:39	SP	TAL IRV
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 05:48	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		100	1 mL		136941	10/12/13 08:41	CH	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:51	TK	TAL IRV
Soluble	Leach	DI Leach			19.99 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IR\
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.04 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IR\

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Matrix: Solid

Lab Sample ID: 440-58969-2

### **Lab Chronicle**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-N-SW

Date Collected: 10/07/13 07:40 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-2

Matrix: Solid

Prep Type Total/NA	Batch Type Analysis	Batch Method 9034	Run	Pactor 1	Initial Amount	Final Amount	Batch Number 136468	Prepared or Analyzed 10/09/13 15:48	Analyst ACAN	Lab TAL IRV
Total/NA	Prep	9010B			2.02 g	50 mL	136465	10/09/13 15:40	ВТ	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	ВТ	TAL IRV

Client Sample ID: EBD-100713-W-SW Lab Sample ID: 440-58969-3

Date Received: 10/08/13 10:25

Date Collected: 10/07/13 07:50 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		1			136029	10/09/13 18:26	JM	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 20:10	KS	TAL IRV
Total/NA	Prep	3546			15.20 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		1			136716	10/10/13 15:22	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 03:53	SP	TAL IRV
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 06:14	NC	TAL IRV
Soluble	Leach	DI Leach			3.99 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		100	1 mL		136941	10/12/13 09:23	CH	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:53	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IRV
Soluble	Leach	DI Leach			20.04 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.02 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Γotal/NA	Prep	9010B			2.02 g	50 mL	136465	10/09/13 15:40	ВТ	TAL IR\
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IR\

Client Sample ID: EBD-100713-S-SW

Lab Sample ID: 440-58969-4 Date Collected: 10/07/13 08:00 Matrix: Solid Date Received: 10/08/13 10:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8082		20			136029	10/10/13 10:16	JM	TAL IRV
Total/NA	Analysis	8081A		1			136370	10/09/13 20:25	KS	TAL IRV
Total/NA	Analysis	8081A		20			136716	10/10/13 15:37	KS	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	136344	10/09/13 10:13	QCT	TAL IRV
Total/NA	Analysis	8081A		40			136716	10/10/13 16:15	KS	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136255	10/08/13 22:58	CC	TAL IRV
Soluble	Analysis	9056		1	1 mL		136257	10/09/13 04:08	SP	TAL IRV

TestAmerica Irvine

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### **Lab Chronicle**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Client Sample ID: EBD-100713-S-SW

Date Collected: 10/07/13 08:00 Date Received: 10/08/13 10:25 Lab Sample ID: 440-58969-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			1.26 g	50 mL	136456	10/09/13 15:06	RW	TAL IRV
Total/NA	Analysis	7199		10			136317	10/10/13 07:04	NC	TAL IRV
Soluble	Leach	DI Leach			4.00 g	40 mL	136449	10/09/13 14:42	CH	TAL IRV
Soluble	Analysis	314.0		10	1 mL		136941	10/12/13 10:06	CH	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 17:55	TK	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	136445	10/09/13 14:09	DT	TAL IRV
Total/NA	Analysis	6010B		5			136522	10/09/13 18:13	TK	TAL IRV
Soluble	Analysis	9045C		1		20 mL	136430	10/09/13 13:14	TR	TAL IRV
Soluble	Leach	DI Leach			20.12 g	20 mL	136232	10/08/13 20:00	TR	TAL IRV
Soluble	Analysis	SM 2580B		1		20 mL	136433	10/09/13 13:13	TR	TAL IRV
Total/NA	Prep	9030B			5.02 g	50 mL	136466	10/09/13 15:44	ACAN	TAL IRV
Total/NA	Analysis	9034		1			136468	10/09/13 15:48	ACAN	TAL IRV
Total/NA	Prep	9010B			2.03 g	50 mL	136465	10/09/13 15:40	BT	TAL IRV
Total/NA	Analysis	9014		1			136540	10/09/13 19:49	BT	TAL IRV

### Laboratory References:

EMLab = EMLab - Irvine, Bascom Airport Executive Suites, 17461 Derian Ave, Suite 100, Irvine, CA 92614 TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

# Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-136344/1-A

Client: ENVIRON International Corp.

Project/Site: East End Beta Ditch

**Matrix: Solid** 

Analysis Batch: 136370

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 136344

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
4,4'-DDE	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	•
4,4'-DDT	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	•
Aldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	· · · · · · · · · ·
alpha-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
beta-BHC	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Chlordane (technical)	ND		50	10	ug/Kg		10/09/13 10:13	10/09/13 18:28	
delta-BHC	ND		10	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Dieldrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Endosulfan I	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Endosulfan II	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Endosulfan sulfate	ND		10	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Endrin	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Endrin aldehyde	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	•
Endrin ketone	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	•
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Heptachlor	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Methoxychlor	ND		5.0	1.5	ug/Kg		10/09/13 10:13	10/09/13 18:28	
Toxaphene	ND		200	50	ug/Kg		10/09/13 10:13	10/09/13 18:28	

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		35 - 115	10/09/13 10:13	10/09/13 18:28	1
DCB Decachlorobiphenyl (Surr)	90		45 - 120	10/09/13 10:13	10/09/13 18:28	1

Lab Sample ID: LCS 440-136344/2-A

**Matrix: Solid** 

Client	Sample	e ID:	Lab	(	Control	l Samp	le
			Pre	n	Type:	Total/N	Δ

Analysis Batch: 136370							Prep Batch:	136344
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
4,4'-DDD	33.3	27.7		ug/Kg		83	60 - 120	
4,4'-DDE	33.3	27.5		ug/Kg		82	60 - 120	
4,4'-DDT	33.3	27.7		ug/Kg		83	65 - 120	
Aldrin	33.3	25.6		ug/Kg		77	50 - 115	
alpha-BHC	33.3	24.6		ug/Kg		74	60 _ 115	
beta-BHC	33.3	26.4		ug/Kg		79	60 _ 115	
delta-BHC	33.3	26.8		ug/Kg		80	60 _ 115	
Dieldrin	33.3	27.1		ug/Kg		81	65 _ 115	
Endosulfan I	33.3	27.0		ug/Kg		81	40 - 120	
Endosulfan II	33.3	27.5		ug/Kg		83	55 - 120	
Endosulfan sulfate	33.3	25.7		ug/Kg		77	65 _ 115	
Endrin	33.3	24.6		ug/Kg		74	55 - 120	
Endrin aldehyde	33.3	25.0		ug/Kg		75	55 _ 115	
Endrin ketone	33.3	30.3		ug/Kg		91	65 - 115	
gamma-BHC (Lindane)	33.3	25.9		ug/Kg		78	55 _ 115	
Heptachlor	33.3	25.5		ug/Kg		77	55 _ 115	
Heptachlor epoxide	33.3	27.0		ug/Kg		81	55 <sub>-</sub> 115	
Methoxychlor	33.3	25.8		ug/Kg		77	65 _ 120	

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-136344/2-A

Lab Sample ID: 440-58969-1 MS

Client: ENVIRON International Corp.

Project/Site: East End Beta Ditch

Matrix: Solid

**Matrix: Solid** 

Methoxychlor

Matrix: Solid

Lab Sample ID: 440-58969-1 MSD

Analysis Batch: 136370

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 136344

LCS LCS

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 77 35 - 115 DCB Decachlorobiphenyl (Surr) 100 45 \_ 120

Client Sample ID: EBD-100713-B

Prep Type: Total/NA

Prep Batch: 136344

Analysis Batch: 136370									Prep Batch: 136
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	ND		33.1	18.4		ug/Kg		56	40 - 130
4,4'-DDE	44		33.1	67.3	E	ug/Kg		70	35 - 130
4,4'-DDT	8.5		33.1	29.8		ug/Kg		64	35 _ 130
Aldrin	ND		33.1	19.5		ug/Kg		59	40 - 115
alpha-BHC	ND		33.1	18.7		ug/Kg		56	40 - 115
beta-BHC	2.1	Jр	33.1	22.8	p	ug/Kg		62	40 - 120
delta-BHC	ND		33.1	20.2		ug/Kg		61	45 - 120
Dieldrin	ND		33.1	21.5		ug/Kg		65	40 - 125
Endosulfan I	ND		33.1	19.9		ug/Kg		60	40 - 120
Endosulfan II	ND		33.1	21.8		ug/Kg		66	40 - 125
Endosulfan sulfate	ND		33.1	25.3		ug/Kg		76	45 - 120
Endrin	ND		33.1	20.0	p	ug/Kg		60	45 - 125
Endrin aldehyde	ND		33.1	18.6		ug/Kg		56	30 - 120
Endrin ketone	ND		33.1	24.1		ug/Kg		73	40 - 120
gamma-BHC (Lindane)	ND		33.1	19.6		ug/Kg		59	40 - 120
Heptachlor	ND		33.1	19.2		ug/Kg		58	40 - 115
Heptachlor epoxide	ND		33.1	17.0		ug/Kg		51	45 - 115

33.1

20.4

ug/Kg

MS MS

ND

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene 60 35 - 115 DCB Decachlorobiphenyl (Surr) 82 45 - 120

Client Sample ID: EBD-100713-B

40 - 135

Prep Type: Total/NA **Prep Batch: 136344** 

Analysis Batch: 136370									Prep I	Batch: 1	36344
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	ND		32.9	17.1		ug/Kg		52	40 - 130	7	30
4,4'-DDE	47		32.9	55.9	F	ug/Kg		28	35 - 130	18	30
4,4'-DDT	15		32.9	26.9		ug/Kg		35	35 - 130	10	30
Aldrin	ND		32.9	18.9		ug/Kg		57	40 - 115	3	30
alpha-BHC	ND		32.9	18.5		ug/Kg		56	40 - 115	1	30
beta-BHC	25	Jр	32.9	20.8	рF	ug/Kg		-12	40 - 120	9	30
delta-BHC	ND		32.9	16.2		ug/Kg		49	45 - 120	22	30
Dieldrin	ND		32.9	20.6		ug/Kg		63	40 - 125	4	30
Endosulfan I	ND		32.9	17.0		ug/Kg		52	40 - 120	16	30
Endosulfan II	8.6		32.9	16.9	F	ug/Kg		25	40 - 125	25	30
Endosulfan sulfate	ND		32.9	24.2		ug/Kg		74	45 - 120	5	30
Endrin	8.7		32.9	18.6	pF	ug/Kg		30	45 - 125	7	30

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-58969-1 MSD

**Matrix: Solid** 

**Analysis Batch: 136370** 

Client Sample ID: EBD-100713-B

Pron Type: Total/NA

Fieb Type. Total/NA
<b>Prep Batch: 136344</b>
~

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Endrin aldehyde	ND		32.9	17.4		ug/Kg		53	30 - 120	7	30
Endrin ketone	ND		32.9	23.3		ug/Kg		71	40 - 120	4	30
gamma-BHC (Lindane)	ND		32.9	18.5		ug/Kg		56	40 - 120	6	30
Heptachlor	ND		32.9	18.4		ug/Kg		56	40 - 115	4	30
Heptachlor epoxide	ND		32.9	16.1		ug/Kg		49	45 - 115	6	30
Methoxychlor	ND		32.9	19.6		ug/Kg		60	40 - 135	4	30
	Men	Med									

MSD MSD

Surrogate	%Recovery Qualifier	Limits
Tetrachloro-m-xylene	58	35 - 115
DCB Decachlorobiphenyl (Surr)	82	45 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-136344/1-A

**Matrix: Solid** 

Analysis Batch: 136029

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 136344** 

	MB MB							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1221	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1232	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1242	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1248	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1254	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1
Aroclor 1260	ND	50	12	ug/Kg		10/09/13 10:13	10/09/13 16:39	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenvl (Surr)	70	45 - 120	10/09/13 10:13	10/09/13 16:39	

225

ug/Kg

Lab Sample ID: LCS 440-136344/5-A

**Matrix: Solid** 

Aroclor 1260

Analysis Batch: 136029

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

65 - 115

85

Prep Batch: 136344

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec Aroclor 1016 267 230 ug/Kg 86 65 - 115

267

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
DCB Decachlorobiphenyl (Surr)	69	45 - 120

Lab Sample ID: 440-58969-1 MS

**Matrix: Solid** 

Analysis Batch: 136029

Client Sample ID: EBD-100713-B

Prep Type: Total/NA **Prep Batch: 136344** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Aroclor 1016 ND 264 223 84 50 - 120 ug/Kg Aroclor 1260 ND 264 50 - 125 174 66 ug/Kg

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-58969-1 MS

Lab Sample ID: 440-58969-1 MSD

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 136029** 

Analysis Batch: 136029

Client Sample ID: EBD-100713-B

Prep Type: Total/NA

**Prep Batch: 136344** 

MS MS

Surrogate %Recovery Qualifier Limits DCB Decachlorobiphenyl (Surr) 61 45 - 120

Client Sample ID: EBD-100713-B

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: EBD-100713-B

Prep Type: Total/NA

Prep Type: Total/NA

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Prep Batch: 136344

Spike MSD MSD RPD Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Aroclor 1016 ND 261 222 ug/Kg 85 50 - 120 30 ND 261 Aroclor 1260 192 74 50 - 125 30 ug/Kg 10

MSD MSD

Surrogate %Recovery Qualifier Limits DCB Decachlorobiphenyl (Surr) 63 45 - 120

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MRL 440-136941/2 MRL

**Matrix: Solid** 

Analysis Batch: 136941

MRL MRL Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Perchlorate 4.00 3.17 J ug/L 79 50 - 150

Lab Sample ID: MB 440-136449/1-A

**Matrix: Solid** 

Analysis Batch: 136941

мв мв

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared Perchlorate ND 0.040 0.0095 mg/Kg 10/12/13 04:48

Lab Sample ID: LCS 440-136449/2-A

**Matrix: Solid** 

Analysis Batch: 136941

Spike LCS LCS %Rec. babbA Result Qualifier Limits Analyte Unit %Rec Perchlorate 0.500 0.563 mg/Kg 113 85 - 115

Lab Sample ID: 440-58969-1 MS

**Matrix: Solid** 

Analysis Batch, 126044

Alialysis Dalcii. 130341										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Perchlorate	0.92		0.500	1.39		ma/Ka		93	80 - 120	 

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: 440-58969-1 MSD

**Matrix: Solid** 

Analyte

Perchlorate

Analysis Batch: 136941

Client Sample ID: EBD-100713-B **Prep Type: Soluble** 

80 \_ 120

%Rec. RPD RPD %Rec Limits Limit

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 440-136456/1-A

**Matrix: Solid** 

Analysis Batch: 136317

Client Sample ID: Method Blank Prep Type: Total/NA

Unit

mg/Kg

D

91

**Prep Batch: 136456** 

**Prep Batch: 136456** 

Prep Type: Total/NA

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Cr (VI) 0.81 0.15 mg/Kg 10/09/13 15:05 10/09/13 23:07 ND

Lab Sample ID: LCS 440-136456/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 136317

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Cr (VI) 16.1 13.6 mg/Kg 84 65 - 110

Spike

babbA

0.499

Sample Sample

0.92

Result Qualifier

мв мв

MSD MSD

Result

1.37

Qualifier

Lab Sample ID: 320-4270-A-1-C MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 136317

**Prep Batch: 136456** Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits ND 16.0 12.9 Cr (VI) 55 - 110 mg/Kg

Lab Sample ID: 320-4270-A-1-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 136317

**Prep Batch: 136456** Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Cr (VI) 15.9 ND 13.8 mg/Kg 87 55 - 110 20

Lab Sample ID: 320-4270-A-1-E MSI Client Sample ID: Matrix Spike

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 136317 **Prep Batch: 136456** Sample Sample Spike MSI MSI %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Cr (VI) ND 1890 1240 mg/Kg 66 55 - 110

Method: 9056 - Anions, Ion Chromatography

Lab Sample ID: MB 440-136255/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 136257

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrate as N ND 1.1 0.80 mg/Kg 10/09/13 01:58 Nitrite as N ND 1.5 10/09/13 01:58 1.1 mg/Kg 10/09/13 01:58 Orthophosphate as P ND 1.6 1.3 mg/Kg

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TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

## Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-136255/2-A **Matrix: Solid** 

Lab Sample ID: 440-58902-A-1-B MS

**Client Sample ID: Lab Control Sample** 

**Prep Type: Soluble** 

Analysis Batch: 136257

	Spike	LUS	LUS				70Kec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	 11.3	10.9		mg/Kg		97	90 - 110	
Nitrite as N	15.2	15.3		mg/Kg		100	90 - 110	
Orthophosphate as P	16.3	20.4	*	ma/Ka		125	90 _ 110	

Chika

Client Sample ID: Matrix Spike

**Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 136257

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	2.4		11.3	12.4		mg/Kg		89	80 - 120	
Nitrite as N	ND		15.2	15.0		mg/Kg		99	80 - 120	
Orthophosphate as P	ND		16.3	24.9	F	mg/Kg		153	80 - 120	

Lab Sample ID: 440-58902-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** 

**Prep Type: Soluble** 

Analysis Batch: 136257

RPD Sample Sample Spike MSD MSD %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Nitrate as N 2.4 11.3 12.7 mg/Kg 91 80 - 120 20 Nitrite as N ND 15.2 mg/Kg 80 - 120 15.5 102 20 3 Orthophosphate as P ND 16.3 27.0 F mg/Kg 166 80 - 120

Lab Sample ID: 440-58969-4 DU Client Sample ID: EBD-100713-S-SW **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 136257

Analysis Baton. 100201									
	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Nitrate as N	9.6		 9.38		mg/Kg		 3	20	
Nitrite as N	ND		ND		mg/Kg		NC	20	
Orthophosphate as P	ND	*	ND	*	mg/Kg		NC	20	

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-136445/1-A ^5 Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 136522

Prep Type: Total/NA **Prep Batch: 136445** MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		10/09/13 14:09	10/09/13 17:41	5
Manganese	ND		2.0	0.99	mg/Kg		10/09/13 14:09	10/09/13 17:41	5

Lab Sample ID: LCS 440-136445/2-A ^5 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** Prep Type: Total/NA Analysis Batch: 136522 **Prep Batch: 136445** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	 49.5	45.7		mg/Kg		92	80 - 120	
Manganese	49.5	49.9		mg/Kg		101	80 - 120	

TestAmerica Irvine

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-5896

**Matrix: Solid** 

Analysis Batch: 136522

069-1 MS	Client Sample ID: EBD-100713-B

Prep Type: Total/NA Prep Batch: 136445

Prep Type: Total/NA

Client Sample ID: Method Blank

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	4.3		50.0	49.6		mg/Kg	_	91	75 - 125	
Manganese	470		50.0	466	4	mg/Kg		-5	75 <sub>-</sub> 125	

Lab Sample ID: 440-58969-1 MSD Client Sample ID: EBD-100713-B

Matrix: Solid

Analyte Arsenic Manganese

**Analysis Batch: 136** 

6522									<b>Prep Batch: 136445</b>				
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
	4.3		50.0	49.8		mg/Kg		91	75 - 125	0	20		
	470		50.0	416	4	mg/Kg		-105	75 <sub>-</sub> 125	11	20		

Method: 9014 - Cyanide

Lab Sample ID: MB 440-136465/1-A

**Matrix: Solid** 

Analysis Batch: 136540

Prep Type: Total/NA **Prep Batch: 136465** мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND ND	0.020	0.017 mg/Kg		10/09/13 15:40	10/09/13 19:49	1

Lab Sample ID: LCS 440-136465/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 136540

Prep Batch: 136465 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Cyanide, Total 0.200 0.204 102 90 - 110 mg/Kg

Lab Sample ID: 440-58969-4 MS Client Sample ID: EBD-100713-S-SW

**Matrix: Solid** 

Analysis Batch: 136540									Prep	Batch: 136465
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Cyanide, Total	ND		4.90	4.48		mg/Kg		91	70 - 115	

Lab Sample ID: 440-58969-4 MSD Client Sample ID: EBD-100713-S-SW

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 136540 **Prep Batch: 136465** Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier hahhA Result Qualifier Unit I imits RPD I imit %Rec Cyanide, Total ND 4.98 4.45 mg/Kg 89 70 - 115 15

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 440-136466/2-A Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 136468

Prep Batch: 136466 мв мв Analyte Result Qualifier MDL Unit Prepared Analyzed

Dil Fac Sulfide ND 40 10/09/13 15:44 20 mg/Kg 10/09/13 15:48

TestAmerica Irvine

Prep Type: Total/NA

Prep Type: Total/NA

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 440-136466/1-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 136468 Prep Batch: 136466 Spike LCS LCS

Added Result Qualifier Limits Analyte Unit D %Rec Sulfide 413 80 - 120 381 mg/Kg 92

Lab Sample ID: 440-58969-4 MS Client Sample ID: EBD-100713-S-SW **Matrix: Solid** Prep Type: Total/NA **Prep Batch: 136466** Analysis Batch: 136468 MS MS Sample Sample Spike

Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Sulfide ND 415 144 F mg/Kg 35 70 - 130

Lab Sample ID: 440-58969-4 MSD Client Sample ID: EBD-100713-S-SW **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 136468 Prep Batch: 136466 Spike MSD MSD RPD Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit

Sulfide ND 416 128 mg/Kg 70 - 130 12

Lab Sample ID: 440-58969-1 DU Client Sample ID: EBD-100713-B

**Matrix: Solid Prep Type: Soluble** Analysis Batch: 136430

DU DU Sample Sample RPD Analyte Result Qualifier Result Qualifier Unit **RPD** Limit 8.77 8.710 SU pН 0.7

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: 440-58969-1 DU Client Sample ID: EBD-100713-B **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 136433

Method: 9045C - pH

Client: ENVIRON International Corp.

Project/Site: East End Beta Ditch

Sample Sample DU DU RPD Qualifier Result Qualifier RPD Limit Analyte Result Unit Oxidation Reduction Potential 430 428 millivolts 5

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### GC Semi VOA

### Analysis Batch: 136029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	8082	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8082	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8082	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8082	136344
LCS 440-136344/5-A	Lab Control Sample	Total/NA	Solid	8082	136344
MB 440-136344/1-A	Method Blank	Total/NA	Solid	8082	136344

### **Prep Batch: 136344**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3546	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3546	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3546	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3546	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3546	
LCS 440-136344/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 440-136344/5-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-136344/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 136370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8081A	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344
LCS 440-136344/2-A	Lab Control Sample	Total/NA	Solid	8081A	136344
MB 440-136344/1-A	Method Blank	Total/NA	Solid	8081A	136344

### Analysis Batch: 136716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	8081A	136344
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	8081A	136344
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	8081A	136344

### HPLC/IC

### Leach Batch: 136255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58902-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	<del></del>
440-58902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

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# **HPLC/IC** (Continued)

### Leach Batch: 136255 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	
440-58969-4 DU	EBD-100713-S-SW	Soluble	Solid	DI Leach	
LCS 440-136255/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-136255/1-A	Method Blank	Soluble	Solid	DI Leach	

### Analysis Batch: 136257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58902-A-1-B MS	Matrix Spike	Soluble	Solid	9056	136255
440-58902-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056	136255
440-58969-1	EBD-100713-B	Soluble	Solid	9056	136255
440-58969-2	EBD-100713-N-SW	Soluble	Solid	9056	136255
440-58969-3	EBD-100713-W-SW	Soluble	Solid	9056	136255
440-58969-4	EBD-100713-S-SW	Soluble	Solid	9056	136255
440-58969-4 DU	EBD-100713-S-SW	Soluble	Solid	9056	136255
LCS 440-136255/2-A	Lab Control Sample	Soluble	Solid	9056	136255
MB 440-136255/1-A	Method Blank	Soluble	Solid	9056	136255

### Analysis Batch: 136317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-4270-A-1-C MS	Matrix Spike	Total/NA	Solid	7199	136456
320-4270-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7199	136456
320-4270-A-1-E MSI	Matrix Spike	Total/NA	Solid	7199	136456
440-58969-1	EBD-100713-B	Total/NA	Solid	7199	136456
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	7199	136456
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	7199	136456
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	7199	136456
LCS 440-136456/2-A	Lab Control Sample	Total/NA	Solid	7199	136456
MB 440-136456/1-A	Method Blank	Total/NA	Solid	7199	136456

### Leach Batch: 136449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	_
440-58969-1 MS	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-1 MSD	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	
LCS 440-136449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 440-136449/1-A	Method Blank	Soluble	Solid	DI Leach	

### **Prep Batch: 136456**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-4270-A-1-C MS	Matrix Spike	Total/NA	Solid	3060A	
320-4270-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3060A	
320-4270-A-1-E MSI	Matrix Spike	Total/NA	Solid	3060A	
440-58969-1	EBD-100713-B	Total/NA	Solid	3060A	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3060A	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3060A	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3060A	
LCS 440-136456/2-A	Lab Control Sample	Total/NA	Solid	3060A	

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

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### **HPLC/IC (Continued)**

### Prep Batch: 136456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-136456/1-A	Method Blank	Total/NA	Solid	3060A	

### Analysis Batch: 136941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-1 MS	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-1 MSD	EBD-100713-B	Soluble	Solid	314.0	136449
440-58969-2	EBD-100713-N-SW	Soluble	Solid	314.0	136449
440-58969-3	EBD-100713-W-SW	Soluble	Solid	314.0	136449
440-58969-4	EBD-100713-S-SW	Soluble	Solid	314.0	136449
LCS 440-136449/2-A	Lab Control Sample	Soluble	Solid	314.0	136449
MB 440-136449/1-A	Method Blank	Soluble	Solid	314.0	136449
MRL 440-136941/2 MRL	Lab Control Sample	Total/NA	Solid	314.0	

### **Metals**

### **Prep Batch: 136445**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
440-58969-1	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	3050B	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	3050B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	3050B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	3050B	
LCS 440-136445/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-136445/1-A ^5	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 136522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1 MS	EBD-100713-B	Total/NA	Solid	6010B	136445
440-58969-1 MSD	EBD-100713-B	Total/NA	Solid	6010B	136445
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	6010B	136445
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	6010B	136445
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	6010B	136445
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	6010B	136445
LCS 440-136445/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	136445
MB 440-136445/1-A ^5	Method Blank	Total/NA	Solid	6010B	136445

### Analysis Batch: 136532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	6010B	136445

### **General Chemistry**

### Leach Batch: 136232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-1 DU	EBD-100713-B	Soluble	Solid	DI Leach	
440-58969-2	EBD-100713-N-SW	Soluble	Solid	DI Leach	
440-58969-3	EBD-100713-W-SW	Soluble	Solid	DI Leach	

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

# **General Chemistry (Continued)**

### Leach Batch: 136232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-4	EBD-100713-S-SW	Soluble	Solid	DI Leach	

### Analysis Batch: 136430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	9045C	136232
440-58969-1 DU	EBD-100713-B	Soluble	Solid	9045C	136232
440-58969-2	EBD-100713-N-SW	Soluble	Solid	9045C	136232
440-58969-3	EBD-100713-W-SW	Soluble	Solid	9045C	136232
440-58969-4	EBD-100713-S-SW	Soluble	Solid	9045C	136232

### Analysis Batch: 136433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Soluble	Solid	SM 2580B	136232
440-58969-1 DU	EBD-100713-B	Soluble	Solid	SM 2580B	136232
440-58969-2	EBD-100713-N-SW	Soluble	Solid	SM 2580B	136232
440-58969-3	EBD-100713-W-SW	Soluble	Solid	SM 2580B	136232
440-58969-4	EBD-100713-S-SW	Soluble	Solid	SM 2580B	136232

### **Prep Batch: 136465**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9010B	
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9010B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9010B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9010B	
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9010B	
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9010B	
LCS 440-136465/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 440-136465/1-A	Method Blank	Total/NA	Solid	9010B	

### **Prep Batch: 136466**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9030B	<del></del> -
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9030B	
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9030B	
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9030B	
140-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9030B	
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9030B	
LCS 440-136466/1-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 440-136466/2-A	Method Blank	Total/NA	Solid	9030B	

### Analysis Batch: 136468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9034	136466
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9034	136466
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9034	136466
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9034	136466
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9034	136466
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9034	136466
LCS 440-136466/1-A	Lab Control Sample	Total/NA	Solid	9034	136466
MB 440-136466/2-A	Method Blank	Total/NA	Solid	9034	136466

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Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

# **General Chemistry (Continued)**

# Analysis Batch: 136540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-58969-1	EBD-100713-B	Total/NA	Solid	9014	136465
440-58969-2	EBD-100713-N-SW	Total/NA	Solid	9014	136465
440-58969-3	EBD-100713-W-SW	Total/NA	Solid	9014	136465
440-58969-4	EBD-100713-S-SW	Total/NA	Solid	9014	136465
440-58969-4 MS	EBD-100713-S-SW	Total/NA	Solid	9014	136465
440-58969-4 MSD	EBD-100713-S-SW	Total/NA	Solid	9014	136465
LCS 440-136465/2-A	Lab Control Sample	Total/NA	Solid	9014	136465
MB 440-136465/1-A	Method Blank	Total/NA	Solid	9014	136465

# **Definitions/Glossary**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### **Qualifiers**

### GC Semi VOA

Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.	
E	Result exceeded calibration range.	
F	MS/MSD Recovery and/or RPD exceeds the control limits	
Χ	Surrogate is outside control limits	
HPLC/IC		
Qualifier	Qualifier Description	

	with the same production of the same producti	
F	MS/MSD Recovery and/or RPD exceeds the control limits	
*	LCS or LCSD exceeds the control limits	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	

### Metals

Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not	
	applicable.	

### **General Chemistry**

Qualifier	Qualifier Description	
F	MS/MSD Recovery and/or RPD exceeds the control limits	

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# **Certification Summary**

Client: ENVIRON International Corp. Project/Site: East End Beta Ditch

TestAmerica Job ID: 440-58969-1

SDG: 21-32100 E-E01

### **Laboratory: TestAmerica Irvine**

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-14
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

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<sup>\*</sup> Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine



Report for:

Ms. Sushmitha Reddy **TestAmerica Irvine** 17461 Derian Ave. Suite 100 Irvine, CA 92614

Project: 440-58969-1 EML ID: 1124910 Regarding:

Approved by:

Dates of Analysis:

Asbestos-EPÁ Method 600/R-93/116: 10-09-2013

Approved Signatory Miguel Ines

Miguel Constantio Ina

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

EMLab P&K, LLC

EMLab ID: 1124910, Page 1 of 2

17461 Derian Ave, Suite 100, Irvine, CA 92614

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica Irvine Date of Sampling: 10-07-2013 Date of Receipt: 10-09-2013 C/O: Ms. Sushmitha Reddy Re: 440-58969-1 Date of Report: 10-09-2013

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Total Samples Submitted:** 

**Total Samples Analysed:** 4

**Total Samples with Layer Asbestos Content > 1%:** 

Location: EBD-100713-B (440-58969-1)	Lab ID-Version‡: 5078237-	
Sample Layers	Asbestos Content	
Brown Soil	ND	
Sample Composite Homogeneity:	Good	

<b>Location: EBD-100713-N-SW (440-58969-2)</b>	Lab ID-Version‡: 5078238-1
Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

Location: EBD-100713-W-SW (440-58969-3)

Location: EBD-100713-W-SW (440-58969-3)	Lab ID-Version‡: 5078239-1	
Sample Layers	Asbestos Content	
Brown Soil	ND	
Sample Composite Homogeneity:	Good	

Location: EBD-100713-S-SW (440-58969-4)	Lab ID-Version‡: 5078240-1
Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 1124910, Page 2 of 2

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10/15/2013

# CHAIN-of-CUSTODY

ō 72 HOURS WO#: 440-58969 COMMENTS 440-58969 Chain of Custody 5220 8/8/01 PROJECT MANAGER: Dan Clark FIELD PERSON: MA SHINN Test America TURNAROUND T LABORATORY:\_\_ 11/1/10 \* ₽ GLOBAL DATE: 10/07/3013 YES, PROJECT NAME / FACILITY ID: EGST ENd leth Ditch Ŀ 2  $\varphi$  $\alpha$ WA MATRIX (v) sad (d) wrter (e) S > 6 IS EDF REQUIRED? **ЗАМР**LE DEPTH PROJECT NUMBER: 31-33/100 6-801 80 1/6 N 0750 07.70 088 SAMPLE TIME PROJECT LOCATION: HENDERSON DATE SAMPLE TOTAL SAMPLE I.D. NUMBER EBB- 100713-W-SW 261 - 100713 - S -SW 861-100713-145W IS THIS A UST PROJECT OR B-01100-083 Emeryville, California 94 (510) 655—7400 (510) 655—9517 (fax) SIGNATURE SAMPLER:

SEALED, SEAL INTEGRITY

| INTACT:

|INTACT: (P) N Temp2-6/[-2

1071

21/8/11

SAMPLE INTEGRIT

TIME/DATE:

(COMPANY):

RECEIVED BY

7(COMPANY):

9

NORMAL

4B HOURS

(COMPANY):

RELINQUISHED

COC #: 03259

Project Name: NERT-NV Date: October 7, 2013 Project #: 21-32100 E-E01

### Analysis:

- 1. Arsenic and Manganese EPA Method 6010/6020
- 2. Hexavalent chromium EPA Method 7196A or 7199/3060A
- 3. Cyanide EPA Method 9012
- 4. Perchlorate EPA Method 314.0
- 5. OCPs and PCBs EPA Method 8081A/8082
- 6. pH EPA Method 9045
- 7. Inorganic ions EPA Method 9056
- 8. Sulfide EPA Method 9034
- 9. Asbestos EPA Method 600/R-93-116

# **Login Sample Receipt Checklist**

Client: ENVIRON International Corp.

Job Number: 440-58969-1 SDG Number: 21-32100 E-E01

List Source: TestAmerica Irvine

10/15/2013

Login Number: 58969 List Number: 1

Creator: Chavez, Elizabeth

oreator. Onavez, Enzabeth			
Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	N/A		
Sample custody seals, if present, are intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True	Nita Shinn	
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	N/A		
Residual Chlorine Checked.	N/A		



Report for:

Ms. Sushmitha Reddy TestAmerica Irvine 17461 Derian Ave. Suite 100 Irvine, CA 92614

Regarding: Project: 440-58969-1

EMĹ ID: 1124910

Approved by:

Dates of Analysis: Asbestos-EPA Method 600/R-93/116: 10-09-2013

Approved Signatory Miguel Ines

Thiguel Constantion Ina

Service SOPs: Asbestos-EPA Method 600/R-93/116 (EPA-600/M4-82-020 (SOP 01267))

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Lab ID-Version 1: 5078237-1

17461 Derian Ave, Suite 100, Irvine, CA 92614

(800) 651-4802 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica Irvine Date of Sampling: 10-07-2013 Date of Receipt: 10-09-2013 C/O: Ms. Sushmitha Reddy Re: 440-58969-1 Date of Report: 10-09-2013

### ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

**Total Samples Submitted:** 

**Total Samples Analysed:** 4

**Total Samples with Layer Asbestos Content > 1%:** 0

Location: EBD-100713-B (440-58969-1)

Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

Location: EBD-100713-N-SW (440-58969-2)

<b>Location: EBD-100713-N-SW (440-58969-2)</b>	Lab ID-Version‡: 5078238-1
Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

Location: EBD-100713-W-SW (440-58969-3)

<b>Location: EBD-100713-W-SW (440-58969-3)</b>	Lab ID-Version‡: 5078239-1
Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

Location: EBD-100713-S-SW (440-58969-4)

Location: EBD-100713-S-SW (440-58969-4)	Lab ID-Version‡: 5078240-1
Sample Layers	Asbestos Content
Brown Soil	ND
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

 $\ddagger$  A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 1124910, Page 2 of 2

# Appendix H

Data Validation Summary Report (DVSR)

Data Validation Summary Report
October 2013
Beta Ditch Sampling Event
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

 ${\bf ENVIRON\ International\ Corporation}$ 

Emeryville, California

Prepared by

**Laboratory Data Consultants, Inc.** 7750 El Camino Real, Suite 2C Carlsbad, California 92009

January 28, 2014

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### LIST OF ACRONYMS AND ABBREVIATIONS

DQO Data Quality Objectives

DUP Duplicate

DVSR Data Validation Summary Report ICV Initial Calibration Verification

LCS/LCSD Laboratory Control Sample / Laboratory Control Sample Duplicate

LDC Laboratory Data Consultants, Inc.
MS/MSD Matrix Spike / Matrix Spike Duplicate

PARCC Precision, Accuracy, Representativeness, Comparability, Completeness

PCB Polychlorinated Biphenyl PQL Practical Quantitation Limit

QA/QC Quality Assurance / Quality Control
QAPP Quality Assurance Project Plan

REDOX Reduction-Oxidation

RPD Relative Percent Difference
RSD Relative Standard Deviation
SDG Sample Delivery Group
SQL Sample Quantitation Limit
ug/Kg Micrograms per Kilogram
mg/Kg Milligram per Kilogram

USEPA United States Environmental Protection Agency

%D Percent Difference %R Percent Recovery

%RSD Percent Relative Standard Deviation

#### 1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Beta Ditch Sampling Event conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by ENVIRON as a part of the *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada* dated May 2009 and included the collection and analyses of 4 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Chlorinated Pesticides by Environmental Protection Agency (EPA) SW 846 Method 8081A Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082 Arsenic and Manganese by EPA SW 846 Method 6010B

Wet Chemistry:

Perchlorate by EPA Method 314.0

Hexavalent Chromium by EPA SW 846 Method 7199

Nitrate as Nitrogen, Nitrite as Nitrogen, and Orthophosphate as Phosphorus by EPA SW 846 Method 9056

Cyanide by EPA SW 846 Method 9014 Sulfide by EPA SW 846 Method 9034 pH by EPA SW 846 Method 9045C

Reduction-Oxidation (REDOX) Potential by Standard Method 2580B

Laboratory analytical services were provided by Test America, Inc. The samples were grouped into sample delivery groups (SDGs). The soil samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I were reviewed under Stage 4 validation guidelines.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) Data Verification and Validation Requirements - Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately seventy-five percent of the analytical data (3 of the 4 samples) were validated according to Stage 2B data validation procedures and twenty-five percent of the analytical data (1 of the 4 samples) were validated according to Stage 4 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: Basic Remediation Company (BRC) Standard Operating Procedures (SOP) 40 Data Review/Validation, Revision 4, May 2009; Nevada Department of Environmental Protection (NDEP) Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas, January 5 2012; Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008; Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010; and the EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCCS summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCCS criteria.

These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 7.0 presents a summary of the PARCCS criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCCS criteria are also summarized in this section.

#### Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: method blanks, laboratory control samples (LCSs), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCCS evaluation, the analytical data were validated according to the BRC SOP-40 (May 2009), Functional Guidelines (USEPA 2008 and 2010), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J- <u>Estimated</u> The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.
- J+ <u>Estimated</u> The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.
- J <u>Estimated</u> The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- K <u>Estimated</u> The associated numerical value is an estimated maximum possible concentration (EMPC). Flagged by the laboratory as estimated due to not meeting the qualitative identification criteria, target compounds reported as EMPC by the laboratory should be considered estimated.
- R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte. The "R" designation is also applied to yield only one complete set of data for a given sample and eliminate redundant data.
- U <u>Nondetected Analyses</u> were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result that is detected in an environmental sample and associated blank at less than the PQL.
- UJ <u>Estimated/Nondetected</u> Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor

accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J The R flag will always take precedence over the J qualifier.

J > J + or JA non-biased (J) flag will always supersede biased (J+ or J-) flags since

it is not possible to assess the direction of the potential bias.

J = J + plus J- Adding biased (J+, J-) flags with opposite signs will result in a non-

biased flag (J).

UJ = U plus J or J+ or J- The UJ flag is used when a non-detected (U) flag is added to a biased

(J+ or J-) or non-biased flag (J).

Table II lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table III presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the BRC SOP-40, Functional Guidelines, and EPA Test Methods, the data set is then evaluated using PARCCS criteria. PARCCS criteria provide an evaluation of overall data usability. The following is a discussion of PARCCS criteria as related to the project DQOs.

**Precision** is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} X 100$$

where:

D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked

with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

One primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

**Accuracy** is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$%R = (A-B)/C \times 100$$

where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples and LCS/LCSD is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

**Representativeness** is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a

measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy.

Contaminants found in both the environmental sample and the blank sample are assumed to be laboratory artifacts if both values are less than the PQL or if a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value. The blanks and associated samples were evaluated according to the NDEP BMI Plant Sites and Common Areas Projects, Henderson, Nevada, Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas, January 5 2012.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatization, and chemical degradation. In accordance with EPA guidance (USEPA 2004), sample results for analyses that were performed after the method holding time but less than two times the method holding time were qualified as estimated (J- or UJ) and sample results for analyses that were performed after two times the method holding time were qualified as rejected (R).

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

**Completeness** is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$%C = (T - R)/T \times 100$$

where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

**Sensitivity** is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations. This capability is established during the planning phase to meet the DQOs. It is important that calibration requirements, detection limits (DLs), and PQLs presented in the QAPP are achieved and that target analytes can be detected at concentrations necessary to support the DQOs. In addition, sample results are compared to method blank and field blank results to identify potential effects of laboratory background and field procedures on sensitivity.

The following sections present a review of QC data for each analytical method.

#### 2.0 CHLORINATED PESTICIDES

A total of 4 soil samples were analyzed for chlorinated pesticides by EPA SW 846 Method 8081A. All chlorinated pesticide data were assessed to be valid since none of the 80 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

#### 2.1 Precision and Accuracy

#### 2.1.1 Instrument Calibration

Initial and continuing calibration results provide a means of evaluating accuracy within a particular SDG. Percent relative standard deviation (%RSD) and percent difference (%D) are the major parameters used to measure the effectiveness of instrument calibration. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The %RSDs met the acceptance criteria of 20 percent or the coefficient of determination ( $r^2$ ) was  $\geq 0.990$  in the initial calibration. The %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

#### 2.1.2 Surrogates

Due to surrogate %Rs outside of the acceptance criteria, 10 results in samples EBD-100713-N-SW and EBD-100713-S-SW were qualified as detected estimated (J+). The affected compounds were 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, beta-BHC, endosulfan II, and endrin ketone. The details regarding the qualification of results are provided in Attachment A.

#### 2.1.3 MS/MSD Samples

All MS/MSD %Rs and RPDs met the acceptance criteria as stated in the QAPP.

#### 2.1.4 LCS Samples

All LCS %Rs met the acceptance criteria as stated in the QAPP.

#### 2.1.5 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

Due to the RPD between 2 columns greater than 40 percent, the 4,4'-DDT and beta-BHC results in sample EBD-100713-B and the endosulfan II result in sample EBD-100713-S-SW were qualified as

detected estimated (J). The details regarding the qualification of results are provided in Attachment C.

#### 2.2 Representativeness

#### 2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day extraction and 40-day analysis holding time criteria.

#### **2.2.2** Blanks

Method blanks were analyzed to evaluate representativeness. The concentration for an individual target compound in any of the two types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the concentration reported in the sample results.

<u>No Action</u> If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

#### 2.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

#### 2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the Sample Quantitation Limits (SQLs) attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

#### 2.4 Completeness

The completeness level attained for chlorinated pesticide field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

### 2.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

#### 3.0 POLYCHLORINATED BIPHENYLS

A total of 4 soil samples were analyzed for PCBs by EPA SW 846 Method 8082. All PCB data were assessed to be valid since none of the 28 total results were rejected due to holding time or QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the POOs.

#### 3.1 Precision and Accuracy

#### 3.1.1 Instrument Calibration

The %RSDs in the initial calibration and the %Ds in the initial and continuing calibration verifications met the acceptance criteria of 20 percent.

#### 3.1.2 Surrogates

No data were qualified due to high surrogate %Rs since the results were reported as non-detected.

#### 3.1.3 MS/MSD Samples

All MS/MSD %Rs and RPDs were within the acceptance criteria as stated in the QAPP.

#### 3.1.4 LCS Samples

All LCS %Rs were within the acceptance criteria as stated in the QAPP.

#### 3.1.5 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

#### 3.2 Representativeness

#### 3.2.1 Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 14-day extraction and 40-day analysis holding time criteria.

#### 3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks were analyzed to evaluate representativeness.

#### 3.2.2.1 Method Blanks

No contaminants were detected in the method blanks for this analysis.

### 3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. The comparability of the data is regarded as acceptable.

#### 3.4 Completeness

The completeness level attained for PCB field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

#### 3.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

#### 4.0 ARSENIC & MANGANESE

A total of 4 soil samples were analyzed for arsenic and manganese by EPA SW 846 Method 6010B. All arsenic and manganese data were assessed to be valid since none of the 8 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

#### 4.1 Precision and Accuracy

#### 4.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system.

The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of  $\geq 0.995$  and the %Rs in the initial and continuing calibration verifications met the acceptance criteria of 90-110%.

#### 4.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met acceptance criteria as stated in the QAPP.

#### 4.1.3 LCS Samples

All LCS %Rs met acceptance criteria as stated in the OAPP.

#### 4.1.4 ICP Serial Dilution

ICP serial dilution analysis was not performed for this sampling event.

#### 4.1.6 ICP Interference Check Sample

All ICP interference check %Rs met acceptance criteria as stated in the QAPP.

#### 4.1.7 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

#### 4.2 Representativeness

#### **4.2.1** Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria.

#### **4.2.2** Blanks

As previously discussed in Section 2.2.2, method and calibration blanks were analyzed to evaluate representativeness.

#### 4.2.2.1 Method and Calibration Blanks

No data were qualified due to the contaminants detected in the calibration blanks for this analysis.

#### 4.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. The comparability of the data is regarded as acceptable.

#### 4.4 Completeness

The completeness level attained for arsenic and manganese field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

#### 4.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

#### 5.0 WET CHEMISTRY

A total of 4 soil samples were analyzed for perchlorate by EPA Method 314.0, hexavalent chromium by EPA SW 846 Method 7199, nitrate as nitrogen, nitrite as nitrogen, and orthophosphate as phosphorus by EPA SW 846 Method 9056, cyanide by EPA SW 846 Method 9014, sulfide by EPA SW 846 Method 9034, pH by EPA SW 846 Method 9045C, and REDOX Potential by Standard Method 2580B. All wet chemistry data were assessed to be valid since none of the 36 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCCS criteria and evaluated based on the DQOs.

#### 5.1 Precision and Accuracy

#### **5.1.1** Instrument Calibration

As previously discussed in Section 4.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The correlation coefficients in the initial calibrations were within the acceptance criteria of  $\geq 0.995$ .

No data were qualified due to high continuing calibration verification %Rs outside the acceptance criteria of 90-110% since the results were reported as non-detected.

#### 5.1.2 MS/MSD Samples

Due to MS/MSD %Rs outside of the acceptance criteria, 4 sulfide results were qualified as non-detected estimated (UJ). The details regarding the qualification of results are provided in Attachment B.

#### **5.1.3 DUP Samples**

All DUP RPDs met the acceptance criteria as stated in the QAPP.

#### 5.1.4 LCS Samples

No data were qualified due to high LCS %Rs since the results were reported as non-detected.

#### 5.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

#### 5.2 Representativeness

#### **5.2.1** Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 28-day analysis holding time criteria for perchlorate, hexavalent chromium, nitrate as nitrogen, nitrite as nitrogen, orthophosphate as phosphorus, cyanide, sulfide, pH, and REDOX Potential.

#### **5.2.2 Blanks**

As previously discussed in Section 2.2.2, method and calibration blanks were analyzed to evaluate representativeness.

#### 5.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

#### 5.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Target compounds detected below the PQLs flagged (J) by the laboratory should be considered estimated. The comparability of the data is regarded as acceptable.

#### 5.4 Completeness

The completeness level attained for wet chemistry field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

#### 5.5 Sensitivity

The calibration was evaluated for instrument sensitivity and was determined to be technically acceptable. All laboratory PQLs met the specified requirements described in the QAPP.

#### 6.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

#### 7.0 SUMMARY OF PARCCS CRITERIA

The validation reports present the PARCCS results for all SDGs. Each PARCCS criterion is discussed in detail in the following sections.

#### 7.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, surrogates, MS/MSD, DUP, and LCS. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All calibrations were performed as required and met the acceptance criteria. All surrogate, MS/MSD, DUP, and LCS percent recoveries, %Ds, RPDs, and difference met acceptance criteria with the exceptions noted in Sections 2.1.2, 2.1.5, and 5.1.2. All ICP interference check sample %Rs met acceptance criteria.

#### 7.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable.

#### 7.3 Comparability

Sampling frequency requirements were met in obtaining necessary field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample preservation, and sample integrity criteria were met. All holding times were within QC criteria. The overall comparability is considered acceptable.

#### 7.4 Completeness

Of the 152 total analytes reported, none of the sample results were rejected. The completeness for the soil remediation sampling event is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
Chlorinated Pesticides	80	0	100
PCBs	28	0	100
Arsenic and Manganese	8	0	100
Wet Chemistry	36	0	100
Total	152	0	100

The completeness percentage based on rejected data met the 90 percent DQO goal.

### 7.5 Sensitivity

Sensitivity was achieved by the laboratory to support the DQOs. Calibration concentrations and PQLs met the project requirements and low level contamination in the method or calibration blanks did not affect sensitivity.

#### 8.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the Beta Ditch Sampling Event at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada established that the overall project requirements and completeness levels were met. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2B and Stage 4 data validation all other results are considered valid and usable for all purposes.

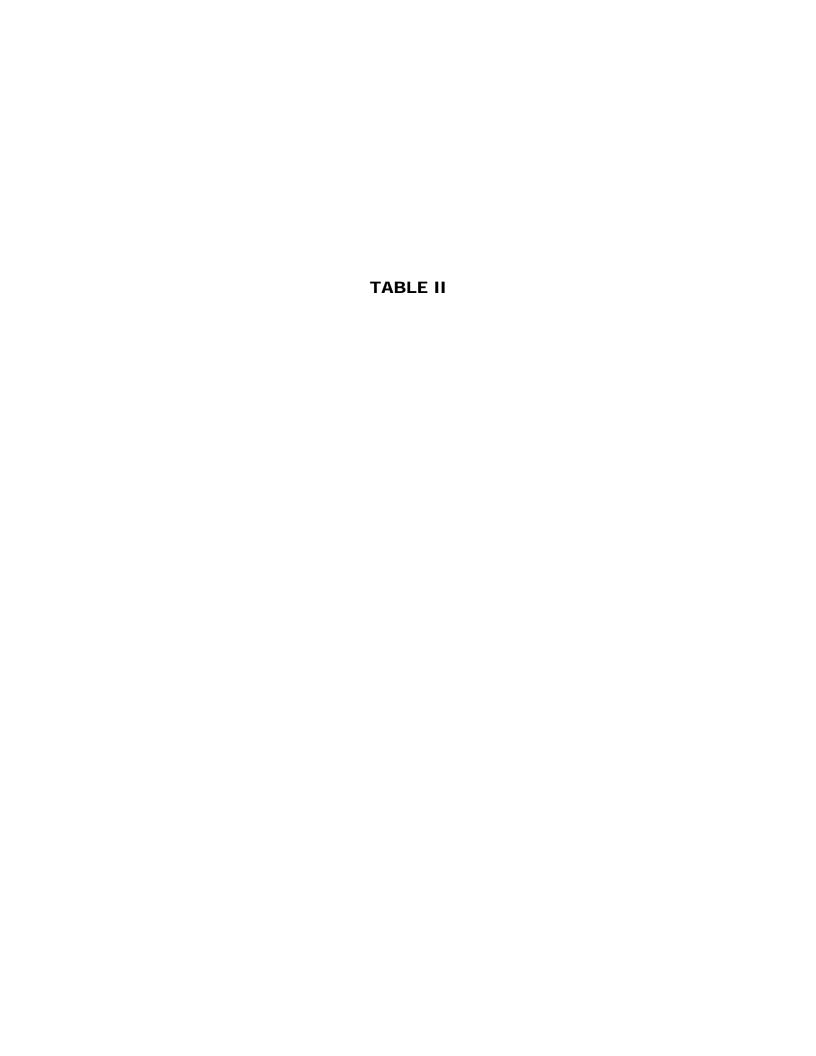
#### 9.0 REFERENCES

- NDEP 2009 Data Verification and Validation Requirements Supplement established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13.
- NDEP 2012. Revised Guidance on Qualifying Data due to Blank Contamination for the BMI Complex and Common Areas. January 5.
- Basic Remediation Company (BRC) 2009, Standard Operating Procedures, SOP-40 Data Review/Validation. Revision 4. May.
- Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (QAPP). Revision. May 2009.
- Region 9 Superfund Data Evaluation/Validation Guidance, R6QA/006.1, Draft. December 2001.
- USEPA1983. EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Cincinnati, Ohio, March.
- \_\_\_\_.1996. EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.
- \_\_\_\_\_.2005. Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxin/Dibenzofuran Data Review, September.
- \_\_\_\_\_.2008. Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. June.
- \_\_\_\_\_.2010. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review. January.
- (Eaton et al., 1998) Standard Method for the Examination of Water and Wastewater (20th ed.). Washington, DC: American Public Health Association.

## TABLE I

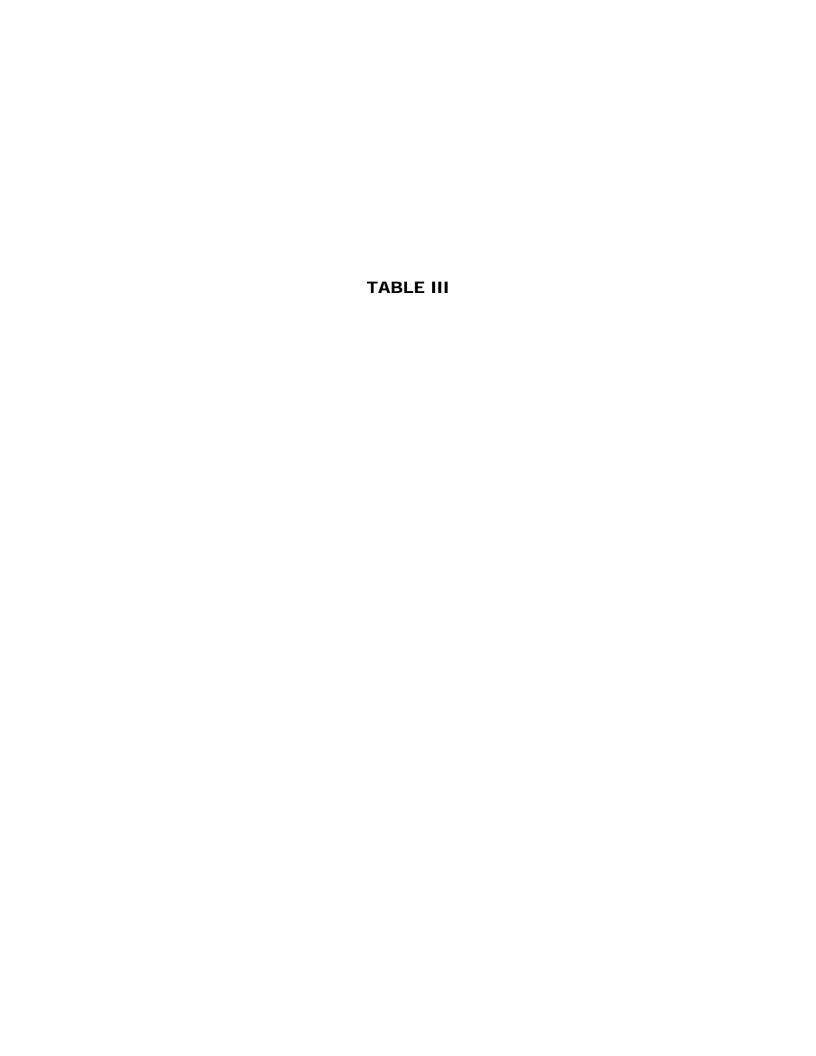
**Sample Cross Reference** 

<b>SDG#</b> : 440-58969-1				V	ALIDAT	ION SA	MPLE T	ABLE							L <b>DC#:</b> 3	0916A
				i	Paramet	ers/Anal	ytical Me	ethod								
Client ID #	Lab ID #	Matrix	Date Collected	Pest (8081A)	PCB (8082)	As, Mn (6010B)	CLO <sub>4</sub> (314.0)	CrVI (7199)	NO <sub>2</sub> -N NO <sub>3</sub> -N (9056)	OP-O₄ (9056)	CN- (9014)	S= (9034)	REDOX (2580B)	pH (9045C)		
EBD-100713-B	440-58969-1	soil	10/07/13	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
EBD-100713-N-SW	440-58969-2	soil	10/07/13	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
EBD-100713-W-SW	440-58969-3	soil	10/07/13	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
EBD-100713-S-SW	440-58969-4	soil	10/07/13	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
EBD-100713-BMS	440-58969-1MS	soil	10/07/13	Х	Х	Х	Х									
EBD-100713-BMSD	440-58969-1MSD	soil	10/07/13	Х	Х	Х	Х									
EBD-100713-BDUP	440-58969-1DUP	soil	10/07/13										Х	Х		
EBD-100713-S-SWMS	440-58969-4MS	soil	10/07/13								Х	Х				
EBD-100713-S-SWMSD	440-58969-4MSD	soil	10/07/13								Х	Х				
EBD-100713-S-SWDUP	440-58969-4DUP	soil	10/07/13						Х	Х						



**Table II.** Qualification Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance ( radiochemical activity)
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
С	qualified due to calibration problems
ср	qualified due to insufficient ingrowth (radiochemical only)
dc	duel column confirmation %D exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
1	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
0	other
p	qualified as a false positive due to contamination during shipping
рН	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <pql< th=""></pql<>
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
X	qualified due to low % solids
Z	qualified due to ICS results



**Table III. Overall Qualified Results** 

SDG	Client Sample ID	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	Units	Validation Qualifier	Validation Reason Code
440-58969-1	EBD-100713-B	SW8081A	50-29-3	4,4'-DDT	15		ug/kg	J	dc
440-58969-1	EBD-100713-B	SW8081A	319-85-7	beta-BHC	2.1	Jp	ug/kg	J	dc
440-58969-1	EBD-100713-N-SW	SW8081A	72-55-9	4,4'-DDE	21		ug/kg	J+	S
440-58969-1	EBD-100713-N-SW	SW8081A	50-29-3	4,4'-DDT	23		ug/kg	J+	S
440-58969-1	EBD-100713-N-SW	SW8081A	319-85-7	beta-BHC	17		ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	33213-65-9	Endosulfan II	200		ug/kg	J	dc,s
440-58969-1	EBD-100713-S-SW	SW8081A	53494-70-5	Endrin ketone	11		ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	72-55-9	4,4'-DDE	1300		ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	72-54-8	4,4'-DDD	13		ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	319-85-7	beta-BHC	37		ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	319-84-6	alpha-BHC	2.8	J	ug/kg	J+	S
440-58969-1	EBD-100713-S-SW	SW8081A	50-29-3	4,4'-DDT	940		ug/kg	J+	S
440-58969-1	EBD-100713-B	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-N-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-S-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m
440-58969-1	EBD-100713-W-SW	SW9034	18496-25-8	Sulfide	20	U	mg/kg	UJ	m

## **ATTACHMENT A**

**Qualifications based on Surrogate Recovery Exceedances** 

# **Qualifications based on Surrogate Recovery Exceedances**

Sample ID	SDG	Method	Matrix	Analyte	Result	Units		Validation Qualifiers	Validation Reason Code	% Recovery	LCL	UCL
EBD-100713-N-SW	440-58969-1	SW8081A	Soil	4,4'-DDE	21	ug/kg	Qualificis	J+	S S	143	45	120
EBD-100713-N-SW	440-58969-2	SW8081A	Soil	4,4'-DDT		ug/kg		J+	S	143	45	120
EBD-100713-N-SW	440-58969-3	SW8081A	Soil	beta-BHC		ug/kg		J+	S	143	45	120
EBD-100713-S-SW	440-58969-4	SW8081A	Soil	Endosulfan II	200	ug/kg		J	dc,s	125	45	120
EBD-100713-S-SW	440-58969-5	SW8081A	Soil	Endrin ketone	11	ug/kg		J+	S	125	45	120
EBD-100713-S-SW	440-58969-6	SW8081A	Soil	4,4'-DDE	1300	ug/kg		J+	S	125	45	120
EBD-100713-S-SW	440-58969-7	SW8081A	Soil	4,4'-DDD	13	ug/kg		J+	S	125	45	120
EBD-100713-S-SW	440-58969-8	SW8081A	Soil	beta-BHC	37	ug/kg		J+	S	125	45	120
EBD-100713-S-SW	440-58969-9	SW8081A	Soil	alpha-BHC	2.8	ug/kg	J	J+	S	125	45	120
EBD-100713-S-SW	440-58969-1	SW8081A	Soil	4,4'-DDT	940	ug/kg		J+	S	125	45	120

## **ATTACHMENT B**

**Qualifications based on Matrix Spike Exceedances** 

## Qualifications based on Matrix Spike Exceedances

Sample ID	SDG	Method	Matrix	Analyte	Result	Units	Lab Qualifiers	Validation Qualifiers	Validation Reason Code	RPD	RPD Limit	MS % Recovery	MSD % Recovery	LCL	UCL
EBD-100713-B	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-N-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-S-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125
EBD-100713-W-SW	440-58969-1	SW9034	Soil	Sulfide	20	mg/kg	U	UJ	m			35	31	75	125

## ATTACHMENT C

**Qualifications based on Quantitation Issues** 

## **Qualifications based on Quantitation Issues**

Sample ID	SDG	Method	Matrix	Analyte	Result	Units	Lab Qualifiers	Validation Qualifiers	Validation Reason Code
EBD-100713-B	440-58969-1	SW8081A	Soil	4,4'-DDT	15	ug/kg		J	dc
EBD-100713-B	440-58969-1	SW8081A	Soil	beta-BHC	2.1	ug/kg	Jp	J	dc
EBD-100713-S-SW	440-58969-1	SW8081A	Soil	Endosulfan II	200	ug/kg		J	dc,s

## Appendix I

Cesare, Inc. Geotechnical Report



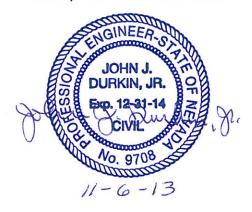
#### SUMMARY GRADING REPORT

### NEVADA ENVIRONMENTAL RESPONSE TRUST SITE EAST END OF BETA DITCH Henderson, Nevada

Project No.: 13.1078E

## Report prepared for:

Mr. Dan Clark ENVIRON International Corporation 2200 Powell Street, Suite 700 Emergyille California 94608



John J. Durkin, Jr., P.E. Principal

November 6, 2013

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#### INTRODUCTION

This summary grading report presents the results of construction observations and field and laboratory tests conducted during earthwork operations for the NEVADA ENVIRONMENTAL RESPONSE TRUST SITE – EAST END OF BETA DITCH excavation located in Henderson, Nevada.

The conclusions and recommendations contained in this report are based on the observations and testing of earthwork performed during two days, on October 11, 2013 and October 14, 2013.

#### **PURPOSE AND SCOPE**

The purpose of our field representation at the site was to provide the owner a source of professional advice, opinions and recommendations of the contractor's work; however it did not include any superintending, supervision or direction of the actual work performed by the contractor or the contractor's workmen. The scope of our services included the following:

- 1. Full time observations and materials testing during the two days that grading and fill placement was performed to fill the east end Beta Ditch excavation.
- 2. Laboratory testing of imported soils to evaluate maximum dry density, optimum moisture content, plasticity index, expansion and particle size distribution.
- 3. Preparation of daily observation reports and this grading report summarizing the results of our field and laboratory tests performed during site grading.

#### **SITE DESCRIPTION**

The east end of the Beta Ditch excavation is approximately 2,100 square feet in area, approximately 8 feet in depth and connected to an excavation on the adjacent Timet property. At the time grading began the east end of the Beta Ditch had been excavated and the bottom of the excavation was moisture conditioned as necessary and re-compacted.

#### **OBSERVATIONS OF GRADING OPERATIONS**

Prior to fill placement, the contractor removed all unsuitable deposits that included vegetation, organic material, debris, and loose soil materials within the proposed areas to receive structural fill. Import materials from the Boulder Ranch Pit were used for structural fill and were placed on a horizontal plane in approximately 12-inch maximum loose lifts, moisture conditioned, and compacted. Fill material was placed to fill the excavation to the same level as the adjacent ground elevations.

Fill materials were moisture conditioned within  $\pm 2$  percent of optimum moisture content and compacted to a minimum of 92 percent relative compaction as determined by ASTM D1557 test method. The observed excavation, grading and fill placement was in compliance with the referenced grading recommendations.

#### FIELD AND LABORATORY TESTING

Cesare, Inc. on-site grading inspector, Francisco Vigil, observed construction operations and performed inplace density testing. Field density and moisture content was determined with a nuclear density gauge during grading, in general accordance with ASTM D6938 test method. Approximate elevations and locations of the tests performed were referenced from survey stakes present during site grading. Results of field density and moisture content tests are shown in Table 1.

Laboratory tests were performed on the import materials. These tests included moisture/density relationships, plasticity index, expansion and particle size distribution. Laboratory test results are summarized in Table 2 and test reports are provided in Appendix A.

#### **CONCLUSIONS AND RECOMMENDATIONS**

Based on our field observations, field testing, and laboratory test results, it is our opinion that preparation, placement and compaction of fill material has been performed in substantial compliance with the recommendations provided in the referenced grading recommendations.

#### **LIMITATIONS**

The professional judgments expressed in this report meet the standard care of our profession. The conclusions and recommendations are based on the results of our full-time observations and testing during two days of grading operations. If unexpected conditions are observed during construction or in the event that changes in use of this area are planned, we should be notified to review the recommendations contained in this report.

#### **REFERENCES**

"Grading Recommendations, East End of Beta Ditch Excavation, Nevada Environmental Response Trust Site", Henderson, Nevada, Project No: 13.1078, by Cesare, Inc. dated June 10, 2013.

Project No.: 13.1078E

#### TABLE 1

#### Summary of Field Density Tests

#### Field Field Relative Soil Compaction Test Lift/ Moisture Dry Date **Test Locations** Type Remarks Elev. Content | Density No. Spec. No. Field (%) (%) (pcf) (%) 11-Oct-13 E. Beta Ditch N. Side 6' BTOF 13-0338 6.1 125.8 95% 92% Pass 11-Oct-13 E. Beta Ditch N. Side 5' BTOF 13-0338 4.7 126.1 95% 92% 2 Pass 6' BTOF 97% 3 11-Oct-13 E. Beta Ditch S. Side 13-0338 4.2 128.0 92% Pass 4 11-Oct-13 E. Beta Ditch S. Side 5' BTOF 13-0338 7.9 123.0 93% 92% Pass 5 11-Oct-13 E. Beta Ditch Center 4' BTOF 13-0338 4.7 125.9 95% 92% Pass E. Beta Ditch N. Side 11-Oct-13 3' BTOF 13-0338 92% 92% 4.2 122.3 Pass 6 Center E. Beta Ditch N. Side 11-Oct-13 2' BTOF 13-0338 94% 92% 7 4.4 124.5 Pass Center

13-0338

13-0338

13-0338

5.7

4.9

6.2

129.2

127.0

128.4

98%

96%

97%

92%

92%

92%

Pass

Pass

Pass

1' BTOF

TOF

TOF

**NOTES:** TOF = Top of Fill

8

9

10

14-Oct-13

14-Oct-13

14-Oct-13

E. Beta Ditch Center

E. Beta Ditch S. Side

Center

E. Beta Ditch Roadway

BTOF = Below Top of Fill

### **NERT SITE BETA DITCH**

Project No.: 13.1078E

## TABLE 2

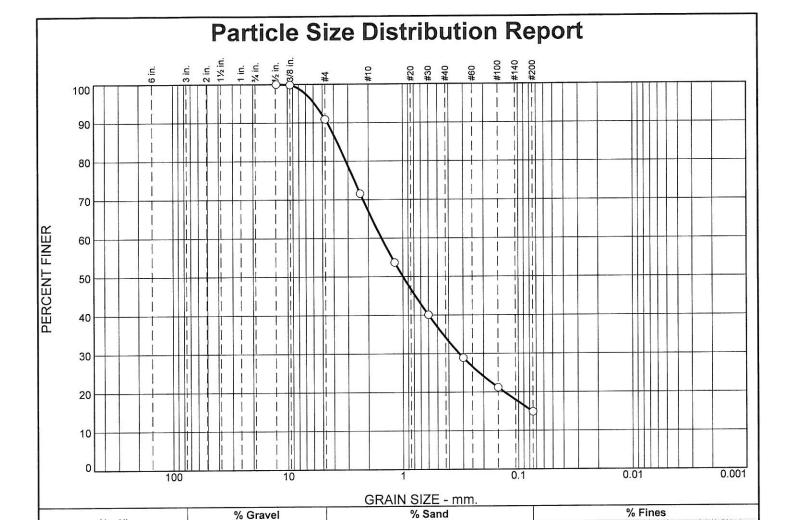
## **SUMMARY OF SOIL CHARACTERISTICS**

(See Appendix A for Test Reports)

Lab No.	USCS Description (Classification)	Maxim um Dry Density (pcf)	Optimum Moisture Content (%)	ASTM Test Method
13-0338	Import – Boulder Ranch Pit Silty SAND (SM)	132.4	6.2	D 1557-09 C

# **APPENDIX A**

Laboratory Test Results



Medium

33

Fine

9

Coarse

24

Fine

19

SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1/2	100		
3/8	100		
#4	91		
#8	72		
#16	54		
#30	40		
#50	29		
#100	21		
#200	15		

Coarse

0

	Soil Description				
silty sand					
PL= NP	Atterberg Limits LL= NV	PI= NP			
D <sub>90</sub> = 4.5643 D <sub>50</sub> = 0.9976 D <sub>10</sub> =	Coefficients D85= 3.7524 D30= 0.3237 Cu=	D <sub>60</sub> = 1.5367 D <sub>15</sub> = 0.0759 C <sub>c</sub> =			
USCS= SM Classification AASHTO= A-1-b					
Expansion Poter	Remarks atial=0.0%				

Silt

15

Clay

Date: 10/11/2013

\* (no specification provided)

% +3"

0

**Location:** Import - Boulder Ranch Pit Stockpile, East Side **Sample Number:** 13-0338



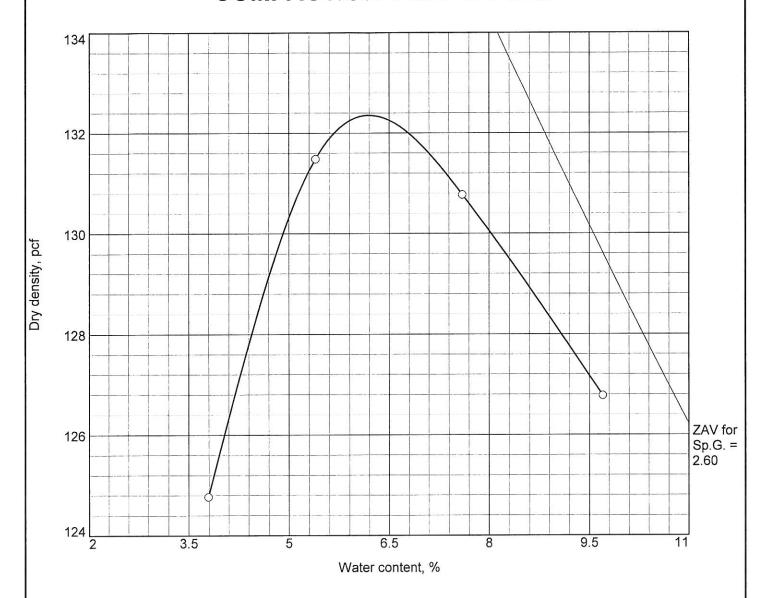
Client: Environ

Project: NV Environ. Response Trust Site

East End of Beta Ditch

Project No: 13.1078 Figure 13-0338

## **COMPACTION TEST REPORT**



Test specification: ASTM D 1557-09 Method A Modified

Elev/	Classification		Nat.	Sp.G.	11	PI	% >	% <
Depth	USCS	AASHTO	Moist.	Sp.G.	<u> </u>	FI	#4	No.200
	SM	A-1-b			NV	NP	9	15

**MATERIAL DESCRIPTION TEST RESULTS** 

Maximum dry density = 132.4 pcf

Optimum moisture = 6.2 %

**Project No.** 13.1078

Client: Environ

Project: NV Environ. Response Trust Site

East End of Beta Ditch

O Loc.: Import - Boulder Ranch Pit Stockpile, East Side

Remarks:

JOSEPH A. CESARE AND ASSOCIATES, INC.

**Sample No.:** 13-0338

**Figure** 13-0338

silty sand