GEOTECHNICAL RESEARCH REPORT for

1 ERIC CIRCLE

Verdi, Nevada

Prepared for:

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May, 2018

JN: 9400.058



Reno 9222 Prototype Drive Reno, Nevada 775.827.6111

Carson City . Fallon . Lake Tahoe . Reno

Gray and Associates 3680 Grant Drive, Ste. B Reno, NV 89506

RE: Executive Summary

Geotechnical Research Report for the 1 Eric Circle

Verdi, Nevada

Lumos and Associates (Lumos) has completed its Geotechnical Research Report for the above mentioned project. According to the Soils Survey of Washoe County, Nevada, South Part, the soils on site consist of Dressler loamy sand and Orr stony sandy Loam. These soils are formed in alluvium derived from mixed rock sources. These soils consist of silty sands (SM), clayey sands (SC), poorly graded sands with silt (SP-SM), silty gravels (GM), and poorly graded gravels with silt (GP-GM). According to the Verdi Quadrangle Geologic Map, the soil consists of outwash and terrace deposits of the Truckee River deposits. The site is relatively flat with an estimated inclination of between 2-4%. The site soils, which may be encountered during grading, are potentially susceptible to frost heave and/or shrinkage and swell. These conditions are not uncommon in northwestern Nevada and can be mitigated. The depth to groundwater can be as shallow as 2.5′-3.5′ according to the Soils Survey of Washoe County, Nevada, South Part, and therefore, may affect the stability of site soils, and will likely be encountered during utility construction. Potentially active faults (movement within the last 1.8 million to 750,000 years) are mapped within ¾ of a mile northeast of the site. These seismic conditions are not uncommon in the northwestern Nevada area.

According to aerial photography of the area, the site was developed sometime between 1966 and 1967. The site contains previously placed fill soils, estimated to be on the order of 10 to 15 feet. We understand that a portion of the fill soils contain nickel; however, it is our understanding that these areas are known to the owners and that future development will not encroach on these areas. If these soils are encountered during construction, the owners have a procedure to be followed which is included in a report provided in the appendix. The site currently contains an industrial building, an office building, and four other buildings. Therefore, in order to determine the existing soil conditions underlying the area proposed for expansion, it is advisable that a subsurface exploration be done in the area of the proposed structure to determine the existing conditions of the site soils and recommend mitigation techniques, if warranted, before construction.

In closing, the mapped geotechnical/geological conditions of this site are not uncommon to northwestern Nevada and can be mitigated utilizing conventional engineering and construction practices in the area; therefore the site is suitable for construction subject to further studies.

Please contact our office with any questions concerning this matter at 775-883-7077.

Sincerely,

Mitch Burns, P.E., C.E.M. Materials Engineering Manager Lumos & Associates, Inc.

GEOTECHNICAL RESEARCH REPORT

1 Eric Circle

Verdi, Nevada

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GEOTECHNICAL RESEARCH REPORT

for 1 ERIC CIRCLE Verdi, Nevada

INTRODUCTION

Submitted herewith are the results of Lumos and Associates, Inc. (Lumos) geotechnical research report for the site located in Section 8 of Township 19N Range 18E at 1 Eric Circle located in Verdi, Nevada. The target property consists of one parcel with a hydroelectric power plant to the north, industrial development to the west, U.S. 40 to the south, and the Truckee River to the east. The parcel is identified by the Washoe County Assessor's Office as Assessor Parcel Number (APN) 038-060-36. The entire area is approximately 21.377 acres. The property is currently developed and contains 6 buildings for industrial purposes. A vicinity map and site map are included in this report as Plates 1 and 2.

The purpose of our investigation was to research the general soil conditions and to identify any adverse geologic, soil, or groundwater table conditions. The current scope of work did not include soil sampling, a fault study or any investigation into soil and/or groundwater contamination at the site.

It is possible that subsurface discontinuities are concealed. Such discontinuities are beyond the evaluation of the Engineer at this time. No guarantee of the consistency of site geology and soil conditions is implied or intended.



GEOLOGIC SETTING

The site is located on the eastern flank of the Sierra Nevada Mountains. Verdi is bounded on the west by the tall granite peaks of the Sierra Nevada Mountains along the Truckee River. Volcanic rocks confine Verdi to the north (Peavine Peak). Faults separate Verdi from the surrounding mountains, which is typical of the Basin and Range geomorphic province. Sediments have filled valleys from a number of tributaries and ancestral lakes during the Quaternary period (2 million years to the present). The dominant sediment source has been, and continues to be, the Truckee River and its ancestral counterparts. Stream deposits were particularly voluminous during the past 2 million years after glacial periods. Since the end of the last glacial periods, some 10,000 years ago, arid erosional forces combined with faulting have been the predominant processes to shape the region. These processes have created large alluvial fans that surround the Eagle Valley basin.

The surface geology of the project area has been mapped by John W. Bell and Larry J. Garside, (1987). The mapping indicates outwash and terrace deposits of the Truckee River (Qt_1 and Qt_2) underlie the site. These deposits are known to contain large granite boulders (>3m). Refer to Plate 6

In general, according to the Soil Survey of Washoe County, Nevada, South Part, (1979) the site consists of Dressler loamy sand and Orr stony sandy loam. These soils are formed in alluvium derived from mixed rock sources. According to the Soil Survey of Washoe County, Nevada, South Part, the area has a depth to groundwater of as low as between 2.5 and 3.5 feet. The soils are susceptible to frost heave, and have a low to moderate shrink swell potential. Bedrock is generally located at a depth of greater than 60 inches below existing ground surface. The soils are also characterized as having a moderate to high risk of corrosion to uncoated steel and low risk of corrosion toward concrete.

According to the Flood Insurance Rate Map of the area, a majority of the site is located



in "Zone X", "Areas of Minimal Flood Hazard". The southeastern portion of the site is located in Zone AE, "Special Hazard Area". Refer to Plate 7.

SEISMIC CONSIDERATIONS

Verdi, similar to many areas in Nevada, is located near active faults that are capable of producing significant earthquakes. Refer to Plate 4. Additionally, faults are located as close as approximately ½ to ¾ of a mile to the northeast of the site. The faults are Quaternary age faults, which are considered potentially active, having their last movement between 1.8 million and 750,000 years. Refer to Plate 5. The maximum credible earthquake (MCE) for the vicinity of the project is estimated at 7.5 in moment magnitude. This correlates to a modified Mercalli scale of IX-X. Refer to Plate 3.

2012/15 IBC Design: The mapped maximum considered earthquake spectral response acceleration at short periods (S_s) is 1.425g corresponding to a 0.2 second spectral response acceleration at five percent (5%) of critical damping and for a Site Class B (IBC Figure 1613.3.1(1)). The mapped maximum considered earthquake spectral response acceleration at a 1-second period (S₁) is 0.476g corresponding to a 1.0 second spectral response acceleration at five percent (5%) of critical damping and for a Site Class B (IBC Figure 1613.3.1(2)). At this time, the soil conditions are not known in sufficient detail to a depth of 100 feet, thus, a Site Class D may be assumed per the IBC. These spectral response accelerations are adjusted for site class effects because Site Class D is assumed instead of Site Class B. The site coefficient for spectral response accelerations adjustment at short periods (F_a) is 1.00 (IBC Table 1613.3.3(1)). The site class effect for spectral response acceleration adjustment at 1-second periods (F_v) is 1.524 (IBC Table 1613.3.3(2)). The maximum considered earthquake spectral response acceleration parameter for short period (S_{MS}) is 1.425g and for 1-second period (S_{M1}) is 0.725g. This corresponds to design spectral response acceleration parameters of 0.950g for short period (S_{DS}) and of 0.484g for 1-second period (S_{D1}). Refer to Pate 8.



It is emphasized that the above values are the minimum requirements intended to maintain public safety during strong ground shaking. These minimum requirements are meant to safeguard against loss of life and major structural failures. However, they are not intended to prevent damage or insure the functionality of the structure during and/or after a large seismic event.

In conclusion, seismic concerns for this site are not unlike other sites in the area. However, due to the proximity of the site to a number of faults that are considered active, as noted above, strong seismic shaking should be anticipated during the life of any structures.



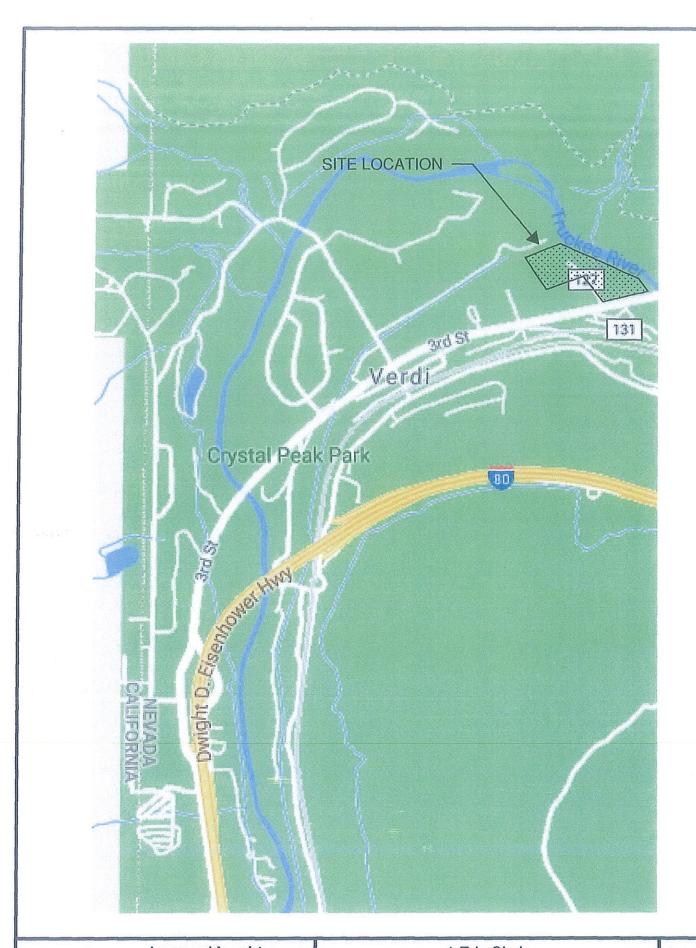
SITE CONDITIONS

Our scope of work included a site reconnaissance and map studies. During the site reconnaissance, the Geotechnical Engineer walked the site to note site conditions. At the time of our reconnaissance, the site was developed with multiple industrial buildings. The site contains up to between 10' and 15' of previously placed fill. We were notified that a portion of the fill soils contain nickel, however, areas containing nickel affected soil will be avoided for future development. The area of the property proposed for expansion is currently being used as a storage area of old equipment and tools. The area is relatively flat and a portion of the site has asphalt grindings. Stockpiles of site soils, containing a high percentage of cobbles and boulders were also noted during the site visit. Additionally, there is a canal traversing the property flowing from east to west and an "overflow ditch" along the western border of the site. A lined pond is on the eastern portion of the site and monitoring wells are located near this pond. While reviewing the aerial photos of the site, it was noted that the site was developed for industrial use between 1966 and 1967. Prior to that, the site was in agricultural use. A subsurface investigation should be done to further characterize the subsurface conditions.



References

- Bell, John W. and Larry J. Garside, 1987, Verdi Quadrangle Geologic Map, Nevada Bureau of Mines and Geology, Reno, NV
- Livermore, Robert, Ramboli, Environ vs Corporation, August 2017 Remediation Report 1 Erik Circle, Verdi Nevada
- National Flood Insurance Program (NFIP), Flood Insurance Rate Map (FIRM), Washoe County, Nevada and Incorporated Areas Map Number 32031C3061G
- Quaternary Fault Map of Nevada, Nevada Bureau of Mines and Geology Website, https://gisweb.unr.edu/QuaternaryFaults
- United States Department of Agriculture, Soil Conservation Service, 1979, Soil Survey of Washoe County Area, Nevada, South Part
- USGS 2012\15 Website, www.eqdesign.cr.usgs.gov





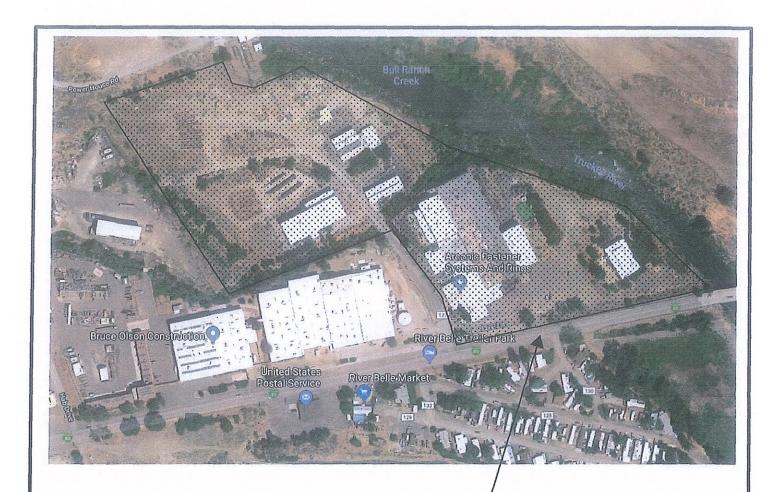
Lumos and Associates

1 Eric Circle

VICINITY MAP

Job Number: 9400.058

PLATE



SITE LOCATION

NOT TO SCALE



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1 Eric Circle

Job Number: 9400.058

SITE MAP

PLATE

Date: Mav. 2018

MODIFIED MERCALLI INTENSITY SCALE

NTENSITY	EFFECTS	
- 1	Not felt except by a very few under especially favorable circumstances.	800
81	Felt only by a few persons at rest, especially on upper floors of buildings. Delicately suspended objects may swing.	
111	Felt quite noticeable indoors, especially on upper floors of buildings, but many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibration like passing of truck. Duration estimated.	
IV	During the day felt Indoors by many, outdoors by few. At night some awaken. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building; standing motor cars rock noticeably.	
·v	Felt by nearly everyone; many awakened. Some dishes, windows, etc., broken; a few instances of cracked plaster; unstable objects overturned. Disturbance of trees, poles, and other tall objects sometimes noticed. Pendulum clocks may stop.	
VI	Felt by all; many frightened and run outdoors. Some heavy furniture moved; a few instances of fallen plaster or damaged chimneys. Damage slight.	
VII	Everybody runs outdoors. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable in poorly built or badly designed structures; some chimneys broken. Noticed by persons driving motor cars.	
VIII	Damage slight in specially designed structures; considerable in ordinary substantial buildings with partial collapse; great in poorly built structures. Panel walls thrown out of frame structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned. Sand and mud ejected in small amounts. Changes in well water. Disturbs persons driving motor cars.	
ÎX	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb; great in substantial buildings, with partial collapse. Buildings shifted off foundations. Ground cracked conspicuously. Underground pipes broken.	
×	Some well-built wooden structures destroyed; most masonry and frame structures with foundations destroyed; ground badly cracked. Rails bent. Landslides considerable from river banks and steep slopes. Shifted sand and mud. Water splashed (sloped) over banks.	
XI	Few, if any (masonry) structures remain standing. Bridges destroyed. Broad fissures in ground. Underground pipe lines completely out of service. Earth slumps and land slips in soft ground. Rails bent greatly.	
XII	Damage total. Waves seen on ground surfaces. Lines of sight and level distorted. Objects thrown upward into the air.	

From Wood and Newman, 1931, by U.S. Geological Survey, 1974, Earthquake Information Bulletin, v. 6, no. 5, p. 28

Richter Magnitude	Intensity (maximum expected Modified Mercalli)		
3.0 - 3.9	11 - 111		
4.0 - 4.9	IV-V		
5.0 - 5.9	VI - VII		
6.0 - 6.9	VII - VIII		
7.0 - 7.9	IX - X		
8.0 - 8.9	XI - XII		



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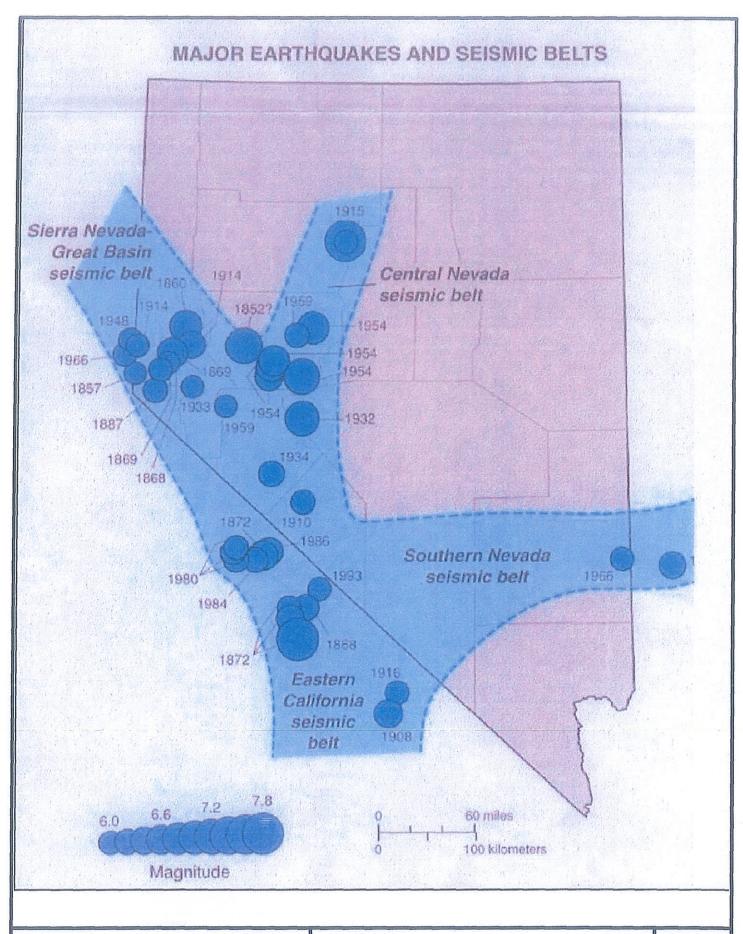
1 Eric Circle

MODIFIED MERCALLI SCALE

Job Number: 9400.055

PLATE

Date: May. 2018





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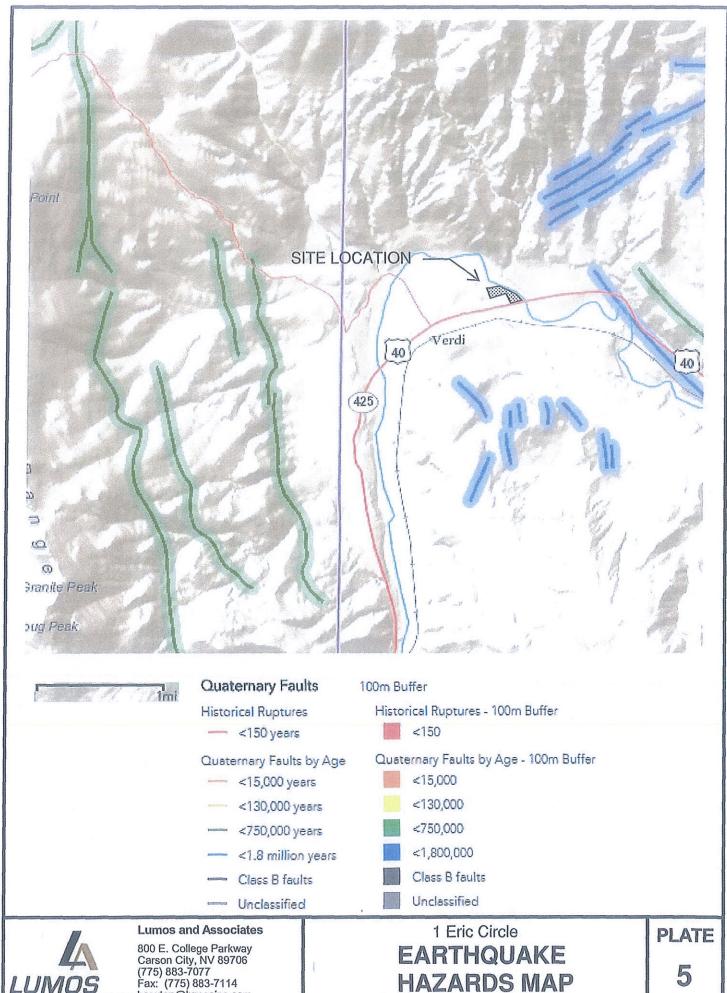
MAJOR EARTHQUAKES/ SIESMIC BELTS

Job Number: 9400.058

Date: Mav. 2018

4

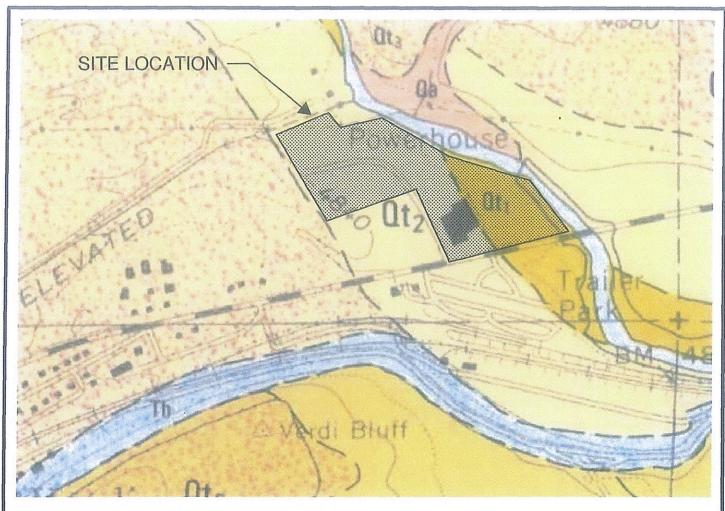
PLATE



bsexton@lumosinc.com

HAZARDS MAP

Job Number: 9400.055



Outwash and terrace deposits of the Truckee River Consist of a sequence of fluvial terraces in ascending order above the present river level: Qt₁, lowest; Qt₈, highest. Each deposit consists of a similar pale-brown to light-brownish-gray to brown sandy cobble to boulder gravel and gravelly sand. Clasts consist dominantly of subrounded to rounded andesite and granite with subordinate basalt and metamorphic rocks; moderately to poorly sorted; slightly to moderately consolidated. Qt₁: late Holocene to modern deposits with little or no soil development. Qt₂, Qt₃: Tahoe Outwash (Qto) contains strong reddish-brown argillic B horizon 0.6-1 m thick; locally contains large (> 3 m diameter) granitic boulders. Qt₄: Donner Lake Outwash (Qdo) contains strong



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GEOLOGIC MAP

PLATE

6

Job Number: 9400.058

National Flood Hazard Layer FIRMette FEMA CITY OF RENO 320020 Zome A SITE LOCATION FLOODWAY AFLEA OF MINIMAL FLOOD HAZARD ZONGAE WASHOE COUNTY UNITROSÉÉDOÉ ATERÉARIEAS 3200 CATTY OF RIENKO 320020 Zono# area of Minimal Flood Hazar CITTY OF RENO 320020 Source: Esri, Digital Glober GeoEye, Earthstar Geographics, CNES/Atrous DS, USDA, USGS, AeroSRID, IGN, and the GIS <u>User</u> Community Feet 1:6,000 1,000 1,500 2,000 250 500 Digital Data Available No Digital Data Available MAP PANELS \boxtimes Legend Unmapped NO SCREEN Area of Minimal Flood Hazard Zone X This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. Effective LOMRs SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT OTHER AREAS Area of Undetermined Flood Hazard Zone D The base map shown complies with FEMA's base map accuracy standards Without Base Flood Elevation (BFE) With BFE or Depth Channel, Culvert, or Storm Sewer The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/22/2018 at 12:12:18 FM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. SPECIAL FLOOD HAZARD AREAS minimi Levee, Dike, or Floodwall Regulatory Floodway Zone AE, AO, AH, VE, AR 20.2 Cross Sections with 1% Annual Chance 0.2% Annual Chance Rood Hazard, Areas 17.5 Water Surface Elevation of 1% annual chance flood with average depth less than one foot or with drainage **Coastal Transect** Base Flood Bevalion Line (BFE) areas of less than one square mile Zone X This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, Limit of Study Future Conditions 1% Annual Jurisdiction Boundary Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Coastal Transect Baseline FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for OTHER Levee. See Notes. Zone X Profile Baseline OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee zone D Hydrographic Feature **Lumos and Associates** 1 Eric Circle PLATE 800 E. College Parkway Carson City, NV 89706 (775) 883-7077 FLOOD INSURANCE

Fax: (775) 883-7114 bsexton@lumosinc.com

RATE MAP

Job Number: 9400.058

Design Maps Summary Report

User-Specified Input

Report Title 1 Eric Circle

Sat May 12, 2018 18:15:05 UTC

Building Code Reference Document 2012/2015 International Building Code

(which utilizes USGS hazard data available in 2008)

Site Coordinates 39.52173°N, 119.97853°W

Site Soil Classification Site Class D - "Stiff Soil"

Risk Category 1/11/111



USGS-Provided Output

$$S_{e} = 1.425 g$$

$$S_{ms} = 1.425 g$$
 $S_{ms} = 0.950 g$

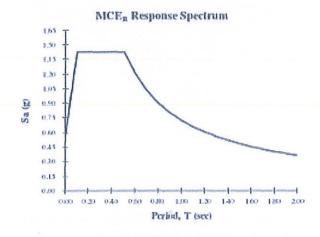
$$S_{--} = 0.950 c$$

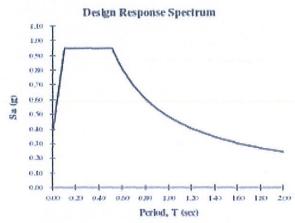
$$S_1 = 0.476 g$$

$$S_{m_1} = 0.725 g$$

$$S_{p_1} = 0.484 g$$

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.





Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.



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DESIGN RESPONSE **SPECTRUM**

Job Number: 9400.058

PLATE

APPENDIX



Prepared for Submission to:

Washoe County Health District

Prepared on Behalf of:



Prepared By:
Ramboll Environ US Corporation
Arlington, Virginia

Date
August 2017

Project Number 01-40267B

REMEDIATION REPORT 1 ERIK CIRCLE, VERDI, NEVADA

184.00



REMEDIATION REPORT 1 ERIK CIRCLE, VERDI, NEVADA

Revision

00

Date

August 2017

Made by

Christopher Bowles

Checked by

Sarah Stoneking

Approved by

Adam Johnston

Description

Remediation Report

Former Schlosser Forge Company - Viking Metallurgical

1 Erik Circle, Verdi, NV

Ref

01-40267B

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Appendix B: Photolog

Appendix C: Dig Permit

Appendix D: Soil Management Plan

Contents Ramboll Environ

1. INTRODUCTION

At the request of Washoe County Health District, and on behalf of Arconic, Ramboll Environ US Corporation (Ramboll Environ) provided technical oversight of remediation activities conducted at the Schlosser Forge Company – former Viking Metallurgical property located at 1 Erik Circle in Verdi, Nevada (Figure 1; the "Site"). The remediation activities included the excavation and off-site disposal of nickel impacted surface soils in three areas of the site, located north of the Former RAM building, to address potential direct contact hazards (Figure 2). Remediation activities were conducted in accordance with, Remediation Plan, 1 Erik Circle, Verdi, Nevada, prepared by Ramboll Environ and dated November 2016; the Remediation Plan was approved by the Washoe County Health District in a letter dated December 1, 2016.

An overview of the facility background including current and historical operations and ownership is provided in Section 2 of this document. Section 3 provides information relating to prior site investigations and Section 4 provides a summary of site remediation activities.

2. FACILITY BACKGROUND

2.1 Current Operations

Schlosser Forge Company operates the site for the manufacture of metal rings used in jet engines. Specific operations include coating of pre-cut metal billets with a silica-based forging lubricant; pre-heating of coated metal in 19 natural gas-fired furnaces; grinding and conditioning; waterjet cutting and other machine shop operations (four computer-numeric control [CNC] machines and seven manual machines); molding of metal rings using hydraulic ring rolling mills and expanders; heat treating of parts in belowground water baths containing corrosion inhibitors; and finishing. The site also conducts a number of activities in support of the major operations, including operation of an oil-water separator; cooling tower operations; quality control testing in an on-site laboratory; general building and machinery/equipment maintenance; and operation of approximately 15 forklifts or industrial trucks (forge area trucks are diesel-fueled and machine shop/maintenance area trucks are propane-fueled). The facility also performs associated packaging, shipping, and administrative activities, which do not involve the use of significant quantities of chemicals.

The primary raw materials used at the site include pre-cut metal billets (namely, titanium and several alloys), lubricant oils, hydraulic oils, coolant, and welding gases. The site also uses non-chlorinated petroleum distillate solvents for parts washing, as well as maintenance quantities of paints, lubricants, sealants, cleaners, and adhesives.

According to facility personnel, operations at the site have remained generally consistent over time during Schlosser Forge Company's period of occupancy at the facility and occupancy by the previous site operators. However, a number of operational changes have occurred in recent years, including the decommissioning of a cogging press, formerly located in the Former RAM Building and decommissioning of a titanium chip washing unit located in the Former RAM Building. Three USTs, which historically collected oily wastewater from the chip washing unit were removed in 2011.

2,2 Historical Operations

The site was first developed as a ranch (Katz Ranch) prior to the late 1960s. In the late 1960s, the first site building was constructed and the site was used for forging-related operations. The site was used as a forge from 1967 to the mid-1970s. While the exact site owners/operators and dates of occupancy during this time are not known, during the mid-1970s the site was operated by Viking Metallurgical Corporation (Viking). Viking was acquired by Quanex Corporation (Quanex; formerly known as Michigan Seamless Tube Company) in 1976. In 1993, Firth Rixson purchased the site from Quanex. Based on historical aerial photographs and a prior Phase I ESA from 2007, the original Forge Building was expanded between 1967 and 1973 to include the current shipping and machine shop areas. By 1980, the Forge Building had been further expanded to include the current maintenance area and office areas, and by 1990 the Conditioning Building and Former RAM Building had been constructed. In the 1990s, the Heat Treat Building and Former Office Buildings were constructed and the Forge Building was expanded. Alcoa, Inc., (Alcoa) acquired Firth Rixson in November 2014. In late 2016, Alcoa split into two companies -Alcoa and Arconic. The facility is currently owned by Arconic and operated by Schlosser Forge Company.

3. SUMMARY OF INVESTIGATION ACTIVITIES

3.1 July and August 2015

Alcoa acquired the site in November 2014. Ramboll Environ was retained by Alcoa to conduct limited soil and groundwater testing at the site as part of post-acquisition due diligence activities in July and August 2015. On September 3, 2015, Alcoa contacted the Nevada Division of Environmental Protection (NDEP) to report the discovery of chemical compounds in site soil and groundwater at concentrations in excess of allowable concentrations. More specifically:

- Nickel, total petroleum hydrocarbons (TPH)-diesel range organics (DRO), and TPH-oil range organics (ORO) were identified in soil samples, in excess of NDEP reportable concentrations for these compounds, from soil borings drilled in an area north of the former RAM building where three former oily wastewater underground storage tanks (USTs) were historically located. The former tanks were removed in 2011 by a prior site owner/operator. Maximum detected concentrations in soil were:
 - Nickel 15,000 milligrams per kilogram (mg/kg).
 - TPH-DRO 810 mg/kg.
 - TPH-ORO 9,000 mg/kg.

TPH was not detected in groundwater in this area of the site. Groundwater at this location was not analyzed for the presence of metals (note that, no reportable concentration has been established for nickel in groundwater due to its low toxicity).

Pis (2-ethylhexyl) phthalate was identified in groundwater in excess of the NDEP reportable concentration for the compound on the southeast side of the main site building at a concentration of 40 micrograms per liter (μg/L). This compound was identified in only one of five groundwater samples and was not detected in soil. Arconic is not aware of a potential source at the site for the bis (2-ethylhexyl) phthalate, which is commonly used in industrial settings as a plasticizer.

Alcoa provided an initial response to the NDEP Request for Information to the Washoe County Health District in a letter dated October 29, 2015. The NDEP subsequently issued a Request for Information, including the preparation of a work plan to further evaluate the nature and extent of nickel and petroleum hydrocarbons in soil. In response to the Request for Information, Ramboll Environ prepared and submitted to Washoe County Health District a Work Plan for Supplemental Investigation dated December 3, 2015; the Work Plan for Supplemental Investigation was approved by Washoe County Health District in a letter dated December 15, 2016.

3.2 March 2016 Investigation Activities

In March 2016, Ramboll Environ conducted supplemental site investigation activities, as described in the December 2015 Work Plan, to further investigate the nature and extent of nickel and petroleum hydrocarbons in soil near the former oily wastewater USTs located north of the Former RAM Building, and to further evaluate the presence of bis (2-ethylhexyl) phthalate in groundwater near the southeast side of the main site building. A summary of the investigation activities including a discussion of the analytical results was provided to the

Washoe County Health District in the Supplemental Investigation Report, Former Firth Rixson Site, Verdi, Nevada, dated June 2016. Conclusions in the Supplemental Investigation Report include the following:

TPH-DRO

No TPHs were identified in surface soil (based on field screening) and detections at-depth appear to be sporadically located within the investigation area. The distribution of exceedances of applicable regulatory criteria for TPH is not indicative of a significant release, but rather is more likely indicative of the sporadic presence of this compound in fill material or minor historical releases. Although measured concentrations of TPH-DRO exceed the United States Environmental Protection Agency (USEPA) Soil Screening Level (SSL) for protection of groundwater at some locations, TPH-DRO was not identified in groundwater beneath this area of the site during the 2015 investigation. As such, neither direct contact with TPH-affected soil, nor migration to groundwater, appear to be complete pathways and remediation to address TPH was not warranted. Washoe County Health District and NDEP concurred with this conclusion.

Bis (2-ethylhexyl) Phthalate

Bis (2-ethylhexyl) phthalate was identified in groundwater at location BH-7 at a concentration that exceeds the NDEP reportable concentration during 2015 activities. At the request of NDEP and Washoe County Health District, an additional groundwater sample was collected for analysis of semi-volatile organic compounds (SVOCs) at a location downgradient of BH-7 (BH-21). No SVOCs, including bis (2-ethylhexyl) phthalate, were detected in soil or groundwater at BH-21. Ramboll Environ nor Schlosser Forge Company are aware of potential current or historical sources of bis (2-ethylhexyl) phthalate at the plant. Based on the results of the investigation activities and the absence of an identified source for bis (2-ethylhexyl) phthalate, no further action is warranted to address the prior detection.

Nickel

Nickel was identified in soil in the area of the former RAM Building and former oily wastewater USTs at concentrations exceeding the USEPA Industrial Regional Screening Level (RSL) (2,200 mg/kg) and SSL for protection of groundwater (2.6 mg/kg). Concentrations of nickel in surface soil samples at four locations exceeded the Industrial RSL.

Within the subsurface, soils with concentrations of nickel exceeding the Industrial RSL were detected at depths of up to 10 feet below ground surface (bgs). Nickel concentrations in soil appear to decrease significantly with depth prior to reaching the groundwater table. As such, vertical delineation of nickel in excess of the Industrial RSL has been achieved. Although measured concentrations of nickel exceed the SSL for protection of groundwater in select soil samples, no MCLs have been established by NDEP or the USEPA for nickel due its low toxicity.

Washoe County Health District approved the *Supplemental Sampling Report* in a letter dated June 27, 2016 and requested the preparation of a remediation plan to address surface soil nickel contamination. Following further review of the data, representatives of Alcoa (now Arconic) and Ramboll Environ determined that development of the remediation plan would further benefit from additional delineation sampling. Following a verbal discussion with

Washoe County Health District, Alcoa submitted a Conceptual Remediation Work Plan dated August 5, 2016¹ to Washoe County Health District that provided a work plan for the collection of additional delineation soil samples and also outlined a conceptual remediation strategy for the nickel-impacted soils. The Conceptual Remediation Work Plan was approved by Washoe County Health District on August 24, 2016 and the additional delineation sampling was conducted in September 2016.

3.3 September 2016 Delineation Sampling

Sampling activities conducted in September 2016 focused on further delineating the extent of nickel-impacted surface soils to aid in the development of a remediation work plan. An additional 17 soil samples were collected from the upper six inches of soil for analysis of nickel. Of the 17 samples, 9 soil samples were submitted to the analytical laboratory for immediate analysis of nickel; the remaining 8 soil samples were placed on hold at the analytical laboratory for potential analysis, pending results for the other samples. Following receipt of preliminary analytical results, two additional soil samples were released for analysis, resulting in the analysis of 11 soil samples.

Of the eleven soil samples submitted for analysis, nickel was detected in one sample at a concentration (17,000 mg/kg) exceeding the Industrial RSL. The remaining ten samples contained nickel at concentrations below the Industrial RSL. Based on the delineation sample results, in combination with prior sample results, Ramboll Environ identified three distinct areas where the surface soils appeared to be impacted by nickel (Figure 2); the results of the multiple sampling events provided horizontal delineation of impacts in surface soils. The three areas are designated as Area 1, Area 2, and Area 3 and were described in greater detail in the Remediation Work Plan, which was approved by Washoe County Health District on December 1, 2017; the Remediation Work Plan also presents the results of the September 2016 delineation sampling in greater detail.

Conceptual Remediation Work Plan, 1 Erik Circle, Verdi, Nevada, Facility ID D-001120, Activity 4, Spill Report No. 150903-04, prepared by Ramboll Environ and dated August 2016.

4. SUMMARY OF REMEDIATION ACTIVITIES

4.1 Remedial Action Objectives

Based on the results of the investigation activities described in Section 3 of this report, the following remedial action objectives were identified:

- Protection of current site workers from direct contact with or inhalation of soils containing nickel in excess of the Industrial RSL;
- Protection of future site workers or construction workers based on direct contact with or inhalation of soils containing nickel in excess of the Industrial RSL; and
- Conformance with regulations and guidance established by the NDEP and Washoe County Health District.

In order to meet the remedial action objectives, the Remediation Plan called for the excavation and off-site disposal of nickel-affected surface soils in three areas of the site in conjunction with the establishment of institutional controls to manage risk to current site workers. The Remediation Plan also included provisions for the use of institutional controls including a dig permit process, a soil management plan and land use restrictions, to mitigate risk to future site workers. These actions conform to regulations and guidance established by NDEP and Washoe County Health District.

Remediation activities were conducted in accordance with the approved Remediation Plan on July 24 to July 28, 2017. Soil excavation activities were conducted by Tetra Tech, and oversight was provided by Ramboll Environ. Nickel-affected soils within the upper two feet were excavated and disposed off-site, and were subsequently replaced with clean fill. This action effectively eliminated potential exposure pathways for routine site workers (i.e., direct contact with, ingestion of, or inhalation of nickel-affected soils, and is also intended to be compliant with rules and guidance established or adopted by NDEP and Washoe County Health District. A Soil Management Plan and dig permit process have been established for the site and Schlosser Forge Company is in the process of establishing a land use restriction for the property. These actions are described below.

4.2 Pre-Excavation Planning

Prior to the initiation of the remediation activities, Ramboll Environ attended an on-site meeting with facility personnel, and with representatives of Tetra Tech, to review health and safety procedures and the proposed soil excavation activities, and to coordinate with facility personnel to minimize disturbance to facility operations during the remediation activities. Ramboll Environ and Tetra Tech also collected additional soil characterization samples to meet the landfill requirements for documentation of soil quality.

The extent of each excavation area was marked out using ArcGIS Collector in connection with a hand-held Trimble global positioning satellite (GPS) unit. Spectrum Geophysics was retained to check for the presence of subsurface utilities within and immediately surrounding each of the excavation areas.

4.3 Excavation and Off-Site Disposal of Nickel-Impacted Surface Soils

Affected surface soil was excavated from the upper two feet of Areas 1, 2 and 3 (Figure 2) using a combination of a hydraulic excavator and hand digging. A water spray was used to control dust during excavation activities. Throughout the excavation process, Ramboll Environ confirmed the depth of soil excavation to be a minimum of two feet. The depth of excavation was also re-confirmed prior to backfilling. Due to the very rocky nature of the site soils, the overall depth of excavation was closer to 2.3 to 2.5 feet over portions of the excavations. Large boulders encountered during the excavation were hand scraped and returned to the excavations. Soils were loaded directly into dump trucks and were transported by Sierra Rental and Transport (SRT) to Lockwood Regional Landfill in Sparks, Nevada; soils from Area 2 were placed into a biotreatment cell at Lockwood Regional Landfill due to the additional presence of total petroleum hydrocarbons. A total of 23 truckloads carrying an estimated 15 to 18 cubic yards of soil each, were transported off-site for disposal.² This resulted in excavation areas measuring approximately 912 square feet (Area 1); 1,114 square feet (Area 2) and 1,945 square feet (Area 3). The extent of the excavated areas is depicted on Figure 2. Following excavation of impacted soils to the target depth, each excavation was lined with blaze orange polyvinyl snow fencing to create a visible marker, and backfilled with clean fill material obtained from Rilite Aggregate Company. A total of 23 truckloads of clean fill material, totaling approximately 480.4 tons, was imported to the site to backfill the excavation areas. Fill material was compacted using the weight of the excavator and the excavator bucket. Material was subsequently graded to promote runoff of storm water and prevent pooling. Soil Disposal documentation is included in Appendix A.

The horizontal extent of each excavation was confirmed by a Nevada licensed land surveyor working for Battle Born Ventures. The final grade of the ground surface was also checked to ensure that the grade would allow for future surface water drainage during rain events. A photolog documenting the work is included as Appendix B.

4.4 Digging Permit and Soil Management Plan

Surface soils containing nickel in excess of the USEPA Industrial RSL were excavated and disposed off-site as described in Section 5.1. Remaining soils containing nickel at concentrations exceeding the USEPA Industrial RSL for nickel, and present at depths in excess of 2 feet bgs, will be managed under a Digging Permit and Soil Management Plan, which will be implemented and maintained by Schlosser Forge Company. The newly implemented dig permit process at the site requires that a dig permit be obtained from the EHS Manager for the site prior to the conduct of activities that penetrate the ground surface at the Verdi facility; a copy of the dig permit is included as Appendix C. During the Digging Permit review process, the proposed work area will be checked against the designated Soil Management Area (SMA). If the proposed activities include subsurface work within the SMA, the SMP includes specific provisions that must be followed in order to protect worker safety; characterize the soils that will be disturbed; provide for appropriate management of potentially impacted soils, and ensure that such activities are appropriately documented. A

Volumes are approximate. The landfill charged disposal fees on a per truckload basis; the first truckload of soil was estimated at 18 cubic yards and arrived at the landfill overweight. Subsequent trucks were loaded with approximately 16 cubic yards of soil in order to meet weight limitations. The last truckload was estimated at 15 cubic yards.

copy of the Digging Permit is included as Appendix C and a copy of the Soil Management Plan is included as Appendix D; the SMA is shown on Figure 3. Ramboll Environ is in the process of working with a Nevada Licensed Land Surveyor to prepare a certified drawing depicting the extent of the SMA; a copy of the survey figure will be provided to Washoe County Health District upon receipt.

The Digging Permit and Soil Management Plan will be implemented any time subsurface and/or invasive work is being conducted within the designated Soil Management Area. As such, in-situ management of remaining nickel affected soils under the proposed Digging Permit and Soil Management Plan will be protective of current and future site workers, construction workers, or utility workers in the event that soils at depths greater than two feet bgs must be disturbed in the future. A final copy of the Digging Permit and Soil Management Plan will be provided in the final report.

4.5 Institutional Controls

Schlosser Forge Company is in the process of implementing a land use deed restriction that will limit future site use to non-residential use. A land use deed restriction will ensure that the post-remediation site conditions remain protective of human health. Implementation of the land use deed restriction will ensure that land use will not be modified to residential use in the future without further evaluation (and, potentially, remediation) of site conditions. Schlosser Forge Company is waiting on the receipt of a survey drawing which is necessary in order to establish the land use restriction. A copy of the land use deed restriction will be forwarded to Washoe County Health District upon receipt.

REFERENCES

Ramboll Environ. 2016. Remediation Plan, 1 Erik Circle, Verdi, Nevada. November.

Ramboll Environ. 2016. Supplemental Investigation Report, Former Firth Rixson Site, Verdi, Nevada. June.

Ramboll Environ. 2015. Work Plan for Supplemental Investigation, 1 Erik Circle, Verdi, Nevada, Facility ID D-001120, Activity 4, Spill Report No. 150903-04. December 3.

Ramboll Environ. 2015. Letter re: Request for Release/Spill Information, 1 Erik Circle, Verdi, Nevada, Facility ID D-001120, Activity 4, Spill Report No. 150903-04. October 29.

01-40267B\PRIN_WP\44340v1

REMEDIATION REPORT

Former Schlosser Forge Company – Viking Metallurgical Facility Verdi, 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.

Robert Livermore, CEM Principal August 10, 2017 **Date**

Certified Environmental Manager Ramboll Environ US Corporation CEM Certificate Number: 1050

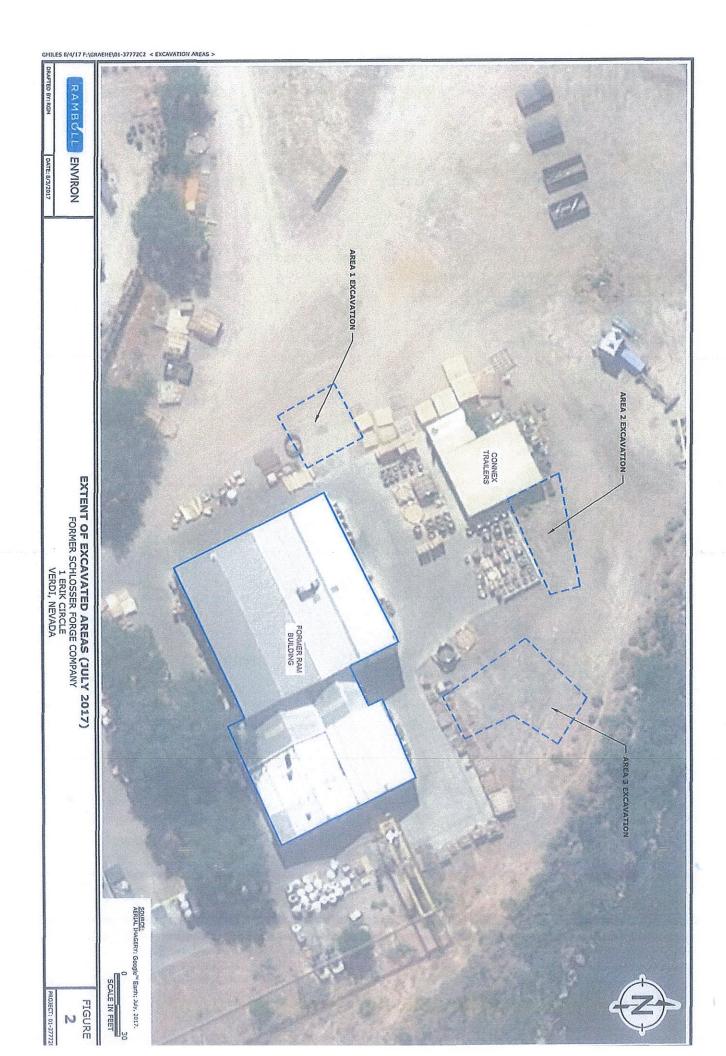
CEM Expiration Date: November 23, 2018

The following individuals provided input to this document:

Sarah E. Stoneking Robert Livermore, CEM Rohan Chaudhary REMEDIATION REPORT 1 ERIK CIRCLE, VERDI, NEVADA

FIGURES





REMEDIATION REPORT 1 ERIK CIRCLE, VERDI, NEVADA

APPENDIX A SOIL DISPOSAL DOCUMENTATION

Date	Manifest No.	Area	Volume (cu yds)
07/24/2017	WM-AV-072017-001	Area 1	18
07/25/2017	WM-AV-072017-002	Area 1	16
07/25/2017	WM-AV-072017-003	Area 1	16
07/25/2017	WM-AV-072017-004	Area 1	16
07/25/2017	WM-AV-072017-005	Area 1	16
07/25/2017	WM-AV-072017-006	Area 1/Area 3	16 (11 cu yd/5 cu yd)
07/25/2017	WM-AV-072017-007	Area 3	16
07/25/2017	WM-AV-072017-008	Area 3	16
07/25/2017	WM-AV-072017-009	Area 3	16
07/25/2017	WM-AV-072017-011	Area 3	16
07/26/2017	WM-AV-072017-012	Area 3	16
07/26/2017	WM-AV-072017-013	Area 3	16
07/26/2017	WM-AV-072017-014	Area 3	16
07/26/2017	WM-AV-072017-015	Area 3	16
07/26/2017	WM-AV-072017-016	Area 3	16
07/26/2017	WM-AV-072017-017	Area 2	16
07/26/2017	WM-AV-072017-018	Area 2	16
07/26/2017	WM-AV-072017-019	Area 2	16
07/26/2017	WM-AV-072017-020	Area 2	16
07/26/2017	WM-AV-072017-021	Area 2	16
07/27/2017	WM-AV-072017-022	Area 2	15
07/27/2017	WM-AV-072017-023	Area 2	16

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Blue- GENERATOR #2 COPY

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2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401 Ticket# 2015668

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/24/2017
Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code Manifest WAF

Destination

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117132NV (AREA 3 NICKLE IMPACTED SOIL)

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Carrier

Container

Gen EPA ID

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Check# Billing #

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3	EVF-P-Standard Env	100		%	14.50		\$93.52	WASHOE
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WAYA NON-HAZARDOUS MANIFEST

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R	Purchase Order # 1140615 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-describe accurately described, classified and pace Printed Name Lynzie Diehl, EHS Manager, Arconic Verdi Operation: 17. Transporter 1 Acknowledgement of Printed Name When Manager and Printed Name 18. Transporter 2 Acknowledgement of Printed Name	ed materials are not ckaged and are in pos s f Receipt of Material f Receipt of Materia	t hazardous wroper condition Signal	wastes as definion for transporture	ed by CFR Pa	art 261 or a	ny ap <u>plicabl</u>	state law, ha	Month 07 Month 07	Day Day 25	2017 Year 2017
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R T E R	Purchase Order # 1140615 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-describe accurately described, classified and pace Printed Name Lynzie Diehl, EHS Manager, Arconic Verdi Operation: 17. Transporter 1 Acknowledgement of Printed Name 18. Transporter 2 Acknowledgement of Printed Name 19. Certificate of Final Treatment/Displacetify, on behalf of the above listed to	ed materials are not chaged and are in pross If Receipt of Material freceipt of Material cosal reatment facility, the	t hazardous wroper condition Signal als Signal signal	wastes as definion for transporture	ed by CFR Partation accord	art 261 or a	ny applicable	ations.	Month 07 Month 07 Month 07	Day Day Day	2017 Year 2017
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R T E R	Purchase Order # 1140615 16. GENERATOR'S CERTIFICATE: I hereby certify that the above-describe accurately described, classified and pace Printed Name Lynzie Diehl, EHS Manager, Arconic Verdi Operation: 17. Transporter 1 Acknowledgement of Printed Name 18. Transporter 2 Acknowledgement of Printed Name 19. Certificate of Final Treatment/Disp I certify, on behalf of the above listed to applicable laws, regulations, permits and 20. Facility-Owner or Operator: Certificate of Certifi	ed materials are no ckaged and are in post s of Receipt of Material f Receipt of Material osal reatment facility, the	t hazardous wroper condition Signal als Signal Signal als signal	wastes as definion for transporture sture store my knowle cove.	ed by CFR Pa tation accord	art 261 or a ding to a po	ny applicable digable regul	ations.	Month 07 Month 07 Month 07 compliant	Day 25	2017 Year 2017 Year

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold-TRANSPORTER #1 COPY

MIKE/VERDI FACILITY



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2015845

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

PO

State Waste Code Manifest WAF

Destination

1140615

Profile Generator 117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time 07/25/2017 08:31:11 In Out 07/25/2017 08:31:11

Scale Scale 01

Operator cb cb

Carrier

Container

Gen EPA ID

Driver

Check# Billing #

Grid

Vehicle# 196

Inbound

0001653

Gross Tare

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Net Tons

Comments

Prod	luct	LD%	Qty	NOM	Rate	Тах	Amount	Origin
1	Spwaste Solid Oth-		16.00	Yards	25.00	months as they are	\$400.00 \$28.26	WASHOE WASHOE
2 3	WWM-P-Waste Water EVF-P-Standard Env	100 100		% %	4.75 14.50		\$86.27	WASHDE
4 5	RCR-P-Regulatory C FUEL-Fuel Surcharg			% %	3.60 4.68		\$21.42 \$27.85	WASHOE WASHOE
6	TRANSLOAD-Transpor		1	Load	195.00		\$195,00	WASHOE

Total Tax Total Ticket

\$758.80

Driver's Signature 402WM



WASTE MANAGEMENT	1014.				UU				
NON-HAZARDOUS MANIFEST						2. Page 1			
3 C	1471	D30240301	10	1 1/1/11:					
	Dings	Generator	's Site Address (If	different than m	nailing):	- 1 2000000 0000000000000000000000000000		AV-072017-	N05
1 Eric Circle	Tings			tems & Rir	ngs				
Verdi, NV 89439							178.000.000.000.000		15
		Verdi, N	/ 89439				50,809,6	SECEMBROTTEL	
4. Generator's Phone 775-34	45-0345								
5. Transporter 1 Company Name		6.	US EPA	D Number					
Sierra Rental and Transport	INVDRIZE SOUTH INVESTIGATION INVESTIGATION INVESTIGATION INVOLVED	C. State Transporter's ID NA							
USDOT 41412		344							
7. Transporter 2 Company Name									
Total Carrier of Carrier of Allers		ID Scate Thans	porserio						
Control of the Contro			2.7.5.773	Distribution		F. Transp	orter's Phone	e lansbore:	1 Phone
9. Designated Facility Name and Site	ARADOUS MANIFEST NVD982463010 (Particle of Particle of		4748.5033						
		y 153							
2700 East Mustang Road		800-963-47	776						
Sparks, NV 89434									
11 Description of Manta Matarials		I Miss Com	mante						
and the second s		- 11 /		No.	Type	Quantity	Wt./Vol.	7. Wisc. Com	nents
	S Mailing Address; stening Systems & Rings le 89439 Generator's Site Address (Hallfrenn than mailing): Aronic Fastening Systems & Rings le 89439 Left Citrole Verdi, NV 89439 S. State Generator's ID State Senerator's ID State Senerator's ID State Senerator's ID State Senerator's ID NA D. Transporter's Phone T75-345-0345 NA D. Transporter's Phone T75-358-734 D. Transport	1155							
Nickle Impacted Soil)		100000000000000000000000000000000000000		THE PERSON NAMED IN COLUMN					
	le# 117132N	ĮV					2500		
b. Waste Name				At -	Variation 1	T://\$1	my) i wait	N 3 (1) 2	wi r
				134.	.4	GTy	1771., 5.5.	22.1.7.3	1.5-
WM Profile #	by we staffle:	acanoés							
c. Weste frame				F		r ,	MI - 12 N	1.500.00	12.00
				1905.	Y = =	C tv	934.9 9424.	20,111,4	1.2
WM Profile#	WM Prories	Camby-	*						
d. Waste flame						Total			
g .				BJI.	7705	1.7.	With 1974	Vinter at	Mi
WM Profile #	Milka Guarda II.	and the			SETTING	BES MARK			
				K. Dispos	al Location	THE SECTION ASSESSMENT	TO STATE OF THE ST	AND PROPERTY OF PROPERTY OF THE PARTY.	NEW PARKETS
Additional Description									
				Cell				Level	
				Grid					
15. Special Handling Instructions and	Additional Inform	nation							
špecial Handling instructions									
Purchase Order # 1140615			EMERGENCY CO	NTACT / PHO	ONE NO.:	CHEMTR	REC (800-4	24-9300)	
16. GENERATOR'S CERTIFICATE:									
OFFICE CONTRACTOR CONT	ed materials are	not hazardou	us wastes as defir	ed by CFR P	art 261 or a	nv annicabi	e state law. h	nave been fully and	
Printed Name Lynzie Diehl,		Sig	nature					Month Day	Year
EHS Manager, Arconic Verdi Operation	5	316		1/1	2	/ .			<u> </u>
			1	yeu	1 X		_	1 07 125	2017
	of Receipt of Mat								
Printed Name	EEPLES	Sig	gnature	1	ryth			-Month Day	Year
			176	n ja	wy			07 25	2017
18. Transporter 2 Acknowledgement of	r Receipt of Mat				0				
Printed Name		Sig	gnature					Month Day	Year
	•6								
19. Certificate of Final Treatment/Disp	osal								
I certify, on behalf of the above listed t		, that to the	best of mv knowl	edge, the ah	ove-describ	ed waste w	as managed	in compliance with	all
applicable laws, regulations, permits a				0 - 1 - 1 - 0 - 0					
20. Facility-Owner or Operator: Certific				overed by th	is manifest.				
Printed Name			gnature	11	20			Month Day	Year
('14/)	-	1		(1/	\mathcal{L}			07	2017

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

TESLA



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

203

KEVIN

0001653

JOB#

Carrier

Driver Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

Ticket# 2015853

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017

Payment Type Credit Account

Manual Ticket#

Hauling Ticket# Route

State Waste Code

WAF

Manifest. Destination

PO

1140815

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE) Generator

Gross Inbound Scale: Operator Time . Tare Scale 01 cb In 07/25/2017 08:37:37 Net Out 07/25/2017 08:37:37 Tons

Comments

Prod	uct	LD%	Qty	NOM	Rate	Tax	Amount	Origin
1 2 3 4 5 6	Spwaste Bolid Oth- WWM-P-Waste Water EVF-P-Ständard Env RCR-P-Regulatory C FUEL-Fuel Surcharg TRANSLOAD-Transpor	100 100 100 100	16.00	Yards % % % % Load	25.00 4.75 14.50 3.60 4.68 195.00	was due and des grap dust not	\$400,00 \$28.26 \$86.27 \$21.42 \$27.85 \$195.00	WASHOE WASHOE WASHOE WASHOE WASHOE WASHOE

15 m

Total Tax Total Ticket

\$758.80

Year

2017

Driver's Signature 402WM

> KEUIN 07 2017 18. Transporter 2 Acknowledgement of Receipt of Materials **Printed Name** Signature Month Day Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility-Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name Signature

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

07

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY



!_	MASTE MANAGEMENT		m m				H H 4/2				
4	NON-HAZARDOUS MANIFEST	1. Generator's		ID No. 63010	Manifest Doc		2. Page 1	of L		,	_
	3. Generator's Malling Address: Arconic Fastening Systems & F		Gene	rator's Site Address (est Number WM	AV-C	72017-	004
	1 Eric Circle Verdi, NV 89439	SE 024E	1 Eri	ic Circle li, NV 89439				B. State	Generato enerato		*
- (4. Generator's Phone 775-34 5. Transporter 1 Company Name	15-0345	1	6. US EPA	ID Number		3000		38884124		
	Sierra Rental and Transport	/CRT\		0. 03 11 1	ID MUIIDEI		C State T	ransporter's I	D NA		
	USDOT 41412	(31(1)	-		NA			orter's Phone		-358-7.34	1
1	7. Transporter 2 Company Name			8. US EPA	ID Number		D. Hallsp	orter a riione		7-000-7:0-	
								ransporter's II	o Sta	rendronomona Se Transpo	order:0
	Cansporter 2 Company Name	٠	- 1	LEEFA	lë Numbe.		F. Transp	orter's Phone		nsporter 3	
	9. Designated Facility Name and Site			10. US EPA	A ID Number						
1	Lockwood Regional Landfill (Re	efuse, Inc.)	1		NIA		G. State F	acility ID		H famility	
1	2700 East Mustang Road Sparks, NV 89434				NA		H. State F	acility Phone	800	-963-477	6
1	opario, ity do-to i		Š								
	11. Description of Waste Materials				12, Co No.	ntainers	13. Total Quantity	14. Unit Wt./Vol.	1.	Mlsc. Comme	nts
G	a. Non Regulated Material - No	n Hazardous	Soil (Area 1 and 3 -		Туре	1:21				
N	Nickle Impacted Soil)		10 10 10 10 10 10 10 10 10 10 10 10 10 1		1	DT (16	Y		Complete	
3		e# 117132N	<u>V</u>								
4	b. Waste Name	B			fec	Type	Tura! Qu	48 DV NO!		os. or. enc	5
	WM Profile #	20-21年20[日i	u-n-Die								
1	c. Waste Meme				f võ	Tyvs	Testi Oty	MACC VIS		Campient	7
L	WM Profile #	With Problem	Yorker.				1000000	and the same	600 E		
	d. Waste Name				GV.	Ÿ. (*±	Datai Oty	Mt. vol.	,	CO-TATE BAT	<u> </u>
	WM Profile #	V/M Proinc ou	lani)e -								
	J. Additional Descriptions for Materia	Is Listed Above				al Location					
1	Audiopral Description				Direct L	andfill			Laural	7	
					Cell				Level	لــ	
	15. Special Handling Instructions and A	dditional Inform	ation								
	Spaces handling habitotions										-
L											
	Purchase Order # 1140615			EMERGENCY CO	ONTACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)		
	16. GENERATOR'S CERTIFICATE:										
	hereby certify that the above-describe								ve been f	fully and	1
	accurately described, classified and pace Printed Name Lynzie Diehl,	kaged and are in	proper		ortation accor	ding to app	licable regul	ations.	1	1	
	EHS Manager, Arconic Verdi Operations	i		Signature		1-1	(.)	Month	Day	Year
L					Mil	X	-A-A		07	25	2017
L	17. Transporter 1 Acknowledgement of	Receipt of Mate	erials	1					· · · · · · · · · · · · · · · · · · ·		
	RAMON LOPEZ C	abrera		Signatore	· Ja	pez (Pobr	ceth	Month 07	QS Day	Year 2017
L	1.8. Transporter 2 Acknowledgement of	Receipt of Mate	erials	7	VI	0					
	· Printed Name			Signature					Month	Day	Year
1:	19. Certificate of Final Treatment/Dispo	osal							<u></u>		
1	certify, on behalf of the above listed tr	eatment facility,			ledge, the ab	ove-describ	ed waste wa	as managed in	compliar	nce with all	
-	applicable laws, regulations, permits an 20. Facility Owner or Operator; Certific				anuscad buth	is manifost					
L	or racincy owner or operator accumulation										- 1
1	Printed Name	7	OI HOIT	Signature	covered by th	A	\		Month	Day	Year

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

DELL PACIFICATION CARRY

Blue- GENERATOR #2 COPY Cald TRANSPORTER HA CORV



Refuse, Inc. - Lockwood Landfill

Ticket# 2015880

Volume 18.0

2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest

Destination

FO

In

1140615

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Carrier

Vehicle#

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

98

JD #

0001653

Time Scale 07/25/2017 09:17:03 Scale 01 Out 07/25/2017 09:17:03

Operator

Inbound Gross

Tare

GARYDERNERTRUCKING GARY DERNER TRUCK

Net Tons

Comments

Product	LD%	Oty	MOU	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth	- 100	15.00	Yards	25.00		\$400.00	WASHOE
2 WWM-P-Waste Water	100		19	4, 75		\$28.25	WASHOE
3 EVF-P-Standard En	/ 100		3/x	14.50		\$86.27	WASHDE
4 RCR-P-Regulatory	100		%	3.60		\$21.42	WASHOE
5 FUEL-Fuel Surchari	100		%	4,68		\$27.85	WASHOE
6 TRANSLOAD-Transpoi	- 100	1	Load	195,00		\$195.00	WASHOE

Printed Name

Driver's Signature Ramon Jopes C

Total Tax Total Ticket

\$758.80

Year 2017

18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Signature

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. **Printed Name**

Signature

Yellow- GENERATOR #1 COPY

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink-FACILITY USE ONLY

Blue- GENERATOR #2 COPY Gold-TRANSPORTER #1 COPY



	MANAGEMENT	4-8 8			00				, II	
	N-HAZARDOUS MANUESST			lanifest Doc		2. Page 1				•
		NVD9824	763010	filini	<u> </u>					
	fenerator's Mailing Address: fconic Fastening Systems & Rings Fric Circle	Arc	erator's Site Address (# onic Fastening Sysi ric Circle				est Number WM	AV-0	72017	005
A	Verdi, NV 89439	Arching Address: astening Systems & Rings cle / 89439 r's Phone 775-345-0345 ter 1 Company Name Intal and Transport (SRT) 1412 ter 2 Company Name Id Facility Name and Site Address Regional Landfill (Refuse, Inc.) Mustang Road V 89434 on of Waste Materials gulated Material — Non Hazardous Soil acted Soil) WM Profile # 117132NV arre WM Profile # WASTE Address WM Profile # WASTE Address WM Profile # WASTE Address I Descriptions for Materials Listed Above In Descriptions for Materials Listed Additional Information and ling Instructions and Additional Information and ling Instructions Err # 1140615 TOR'S CERTIFICATE: fy that the above-described materials are not ha scribed, classified and packaged and are in propo-	di, NV 89439					P.A. ACO		
7 }			6. US EPA I	D Number		Total and a second	arakan sa			
	Sierra Rental and Transport (SRT)		J. OSLIAI	Divanibei		C. State T	ransporter's I	D NA		
	USDOT 41412		1	AV		D, Transp	orter's Phone	775-	358-734	4
f	7. Transporter 2 Company Name		8. US EPA I	D Number						
	Fransporter 2 Company Name		US EAA I	O Numice:		-	ransporter's II orter's Phone		e Transpo aporter I	
	9. Designated Facility Name and Site Address		10. US EPA	ID Number						
	2700 East Mustang Road	.)	,	NA		G. State F			Facility :	
	Sparks, NV 89434		1		SCOPA CONTRACTOR	H. State F	acility Phone	800-	963-477	o Market in the
-								T		
G L	11. Description of Waste Materials			No.	ntainers Type	13. Total Quantity	14. Unit Wt./Vol.	1. 1	Misc. Comme	nts
N	 a. Non Regulated Material – Non Hazard Nickle Impacted Soil) 	ous Soil	(Area 1 and 3 -	1	DT	16	Y	Y.	annear	5.
E R		32NV								
A T	b. Waste Name			FIC.	1706	Tasa' Qtys	Mig by.	.:	ar in ent	:-
		hie Alline								課程學
^	c. Waste Name			(1e	7/15	Total Gty	Mr. W.		Crondick	5
L		fill ristar	E'							医科教
1	d. Wisser Manue		i min	îs.	Type	ग्रिप्स्। १८५	Wt. 151.	ن	coment	<u> </u>
	WM Profile # Wisi Profile	e retraise							FX (100 S	
-	J. Additional Descriptions for Materials Listed Al	ove		K. Disposi	al Location					
	ade-nonal pasinfadiri.	14		Cell	anum		~	Level	1	
				Grid						
	15. Special Handling Instructions and Additional Ir	formation								
	Special Handling Instructions									
L										
-			EMERGENCY CO	NTACT / PHO	ONE NO.:	CHEMIR	EC (800-42	4-9300)		
1 15	16. GENERATOR'S CERTIFICATE:		d	- I by orn n				baan fu	له ما	
								ive been it	iny anu .	
F	Printed Name Lynzie Diehl,		Signatule		_	1.	.)	Month	Day	Year
I	EHS Manager, Arconic Verdi Operations			War	$1 \times$. 1		07	25	2017
1	17. Transporter 1 Acknowledgement of Receipt of	Materials	1.	TY				1 07		2017
	Printer NAM	Materials	Signature	NW	MARK			Month 07	Day	Year 2017
1	18. Transporter 2 Acknowledgement of Receipt of	Materials	1 ,400	2				1		,
F	Printed Name		Signature					Month	Day	Year
	19. Certificate of Final Treatment/Disposal									
а	certify, on behalf of the above listed treatment fa applicable laws, regulations, permits and licenses o	on the dates	s listed above.				as managed ir	complian	ce with all	
2	20. Facility Owner or Operator: Certification of re	ceipt of nor		overed by th	is manifest.					
	Printed Name		Signature	000				Month	Day	Year
Ļ	ALLIA TREATAGENT STOPPICE DISPOSAL FACILITY	CORY	Blue GENERATOR	#3 COBY	US		low CENEDA	07 TOP #1 CO	DV DV	2017



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2015915

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/25/2017

Payment Type Credit Account

Manual Ticket# Haulino Ticket#

Route

State Waste Code

Manifest Destination

PO

In

1140615

Profile

Generator

117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY (1 ERIK CIRCLE)

Carrier

Container

Gen EPA ID

Driver

Check# Billing #

Vehicle# 196

Time 07/25/2017 10:13:52 Scale 01

Out 07/25/2017 10:13:52

Scale Scale

Operator cb

Inbound

MIKE/VERDI FACILITY

0001653

Gross Tare

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Net Tons

Comments

a 1 \$ 1.11

					•		40	
Prod	uct	LD%	Oty	UOM	Rate	Тах	Amount	Origin
1 2 3 4 5 6	Spwaste Solid Oth- WWM-P-Waste Water EVF-P-Standard Env RCR-P-Regulatory C FUEL-Fuel Surcharg TRANSLOAD-Transpor	100 100 100 100	15,00	Yards % % % % % Load	25.00 4,75 14.50 3.60 4.68 195.00		\$400.00 \$28.25 \$86.27 \$21,42 \$27.85 \$195.00	WASHOE WASHOE WASHOE WASHOE WASHOE WASHOE

Total Tax Total Ticket

\$758.80

Driver's Signature 402WM

Mellos albaral	M. J. M.	and!	07	12.5	2017
18. Transporter 2 Acknowledgement of Rece	ipt of Materials				
Printed Name	Signature		Manth	Day	Year
19. Certificate of Final Treatment/Disposal					
I certify, on behalf of the above listed treatm applicable laws, regulations, permits and lice		pove-described waste was ma	naged in compilan	ce with all	
applicable laws, regulations, permits and lice			naged in compilan	ce with al	

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue-GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY



	INAGEMENT	d besid he wi			2 4 2 5	WH 8 8 8			
	1. Generator's US EPA NVD9824		anifest Doc Auggs		2. Page 1	of L			
// [1 Eric Circle Verdi NV 89439 Arcc	erator's Site Address (If o onic Fastening Syst ic Circle di, NV 89439			est Number WM B. State (Generator		300	
	4. Generator's Phone 775-345-0345				,			_	
	5. Transporter 1 Company Name	6. US EPA ID Number NA							
	Sierra Rental and Transport (SRT)					ransporter's II	D NA		100 BC00
	USDOT 41412	1\	D. Transp	orter's Phone	775	-358-734	44		
	7. Transporter 2 Company Name	8. US EPA II	Number						
					E. State T	ransporter's If	o Star	e Franzo	orter itt
	Transporter 2 Company Name	Ju trA N	: Mante		F. Transp	orter's Phone	Trai	isparter 3	Phone
	9. Designated Facility Name and Site Address	10. US EPA	D Number						
	Lockwood Regional Landfill (Refuse, Inc.)				G. State F	acility ID	5885	e Famility	:0
	2700 East Mustang Road Sparks, NV 89434	N	Α		H. State F	acility Phone	800	-963-477	76
	Sparks, INV 69434								
	11. Description of Waste Materials	Section of the State of State of Company of	12. Cor	tainers	13, Total	14. Unit	1	Mlsc. Comme	ente
G	Ministry (C. 1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	'A10	No.	Туре	Quantity	Wt./Vol.	<u>.</u>	TVIISC. CONTINE	
E	Non Regulated Material – Non Hazardous Soil (Nickle Impacted Soil)	Area 1 and 3 -	1	DT	16	Y		C+747.5437	
ER	WM Profile # 117132NV						100 to 10		
A	b. Waste Name		rio.	* v-3/4	Total Cf.	4457 NO.		Jananéna Jananéna	ī's
0	WM Profile # yyal Craftle Nambe								
R	c. Wysta Namis		Tyue	Potest Gray	Wi,¦V⊒i.		Dummani	15	
	WM Profile# First Profile Nations						1000		
	d. Withe Name		No.	Çvos	Total Otis	Vit / vo.	:	Do-runent	
	. WM Profile # WW Frame washing				a a salahiya				. 7.6
1	J. Additional Descriptions for Materials Listed Above		K. Dispos	DU 1975 Advices de Trade City prompt of the second and another and another than a second and another trade of the position of the second and a second a second and a second an					
1	Add-donal description		Direct L	andfill					
1			Cell				Level	L	
-			Grid						
	15. Special Handling Instructions and Additional Information Special Handling Instructions				ж•				
	Purchase Order# 1140615	EMERGENCY CON	ITACT / PHO	ONE NO.:	·CHEMTR	EC (800-42	4-9300)		
	16. GENERATOR'S CERTIFICATE:				200				
1	I hereby certify that the above-described materials are not haz						ive been f	ully and	
1	accurately described, classified and packaged and are in proper Printed Name Lynzie Diehl,	r condition for transpor	tation accor	ding to app	licable regul	ations.	Т	т	т
	EHS Manager, Arconic Verdi Operations	Signature	11/	10		1	Month	Day	Year
	,		du	KX	1	1	07	25	2017
Т	17. Transporter 1 Acknowledgement of Receipt of Materials		7						
R	Printed Name	Signature		2	,		Month	Day	Year
5	KEVIN TEEPLES	Ke	en 1	den)	M		07	25	2017
P	18. Transporter 2 Acknowledgement of Receipt of Materials	,		00					
R	Printed Name	Signature					Month	Day	Year
R							1		
+	19. Certificate of Final Treatment/Disposal		······						1
F	I certify, on behalf of the above listed treatment facility, that to	the best of my knowle	dge, the ah	ove-describ	ed waste w	as managed in	compliar	ice with al	ı
	applicable laws, regulations, permits and licenses on the dates							- 27101 WI	50
	20. Facility Owner or Operator: Certification of receipt of non-		vered by thi	is manifest.					
	Printed Name	Signature	21	1			Month	Ray	Year
			7)			07	W7	2017
	te-TREATMENT, STORAGE, DISPOSAL FACILITY COPY	Blue- GENERATOR #	2.50PY		Yel	low- GENERAT	TOR #1 CC	DPY	

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2015939

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code

Manifest

Destination

PO

Out .

1140615

Profile Generator 117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time 07/25/2017 10:42:57 In

07/25/2017 10:42:57

Scale Scale 01

cb cb

Carrier

Driver

Check# Billing #

Grid

Operator

Vehicle#

Container

Gen EPA ID

KEVIN

0001653

Inbound

JOB#

Gross Tare

Net Tons

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

TESLA

Comments

Product LD% Oty MOU Rate Tax Amount Origin 1 Spwaste Solid Oth- 100 16.00 Yards 25,00 \$400.00 WASHOE 2 WWM-P-Waste Water 100 1/2 4.75 \$28.26 WASHOE 3 EVF-P-Standard Env 100 % 14.50 \$86.27 WASHOE 4 RCR-P-Regulatory C 100 1/2 3.60 \$21.42 WASHOE 5 FUEL-Fuel Surcharg 100 1/2 4.68 \$27,85 WASHDE 6 195.00 \$195.00 TRANSLOAD-Transpor 100 Load WASHIDE

Total . Tax Total Ticket

\$758, 90

Driver's Signature 402WM

Printed Name

07 2017 18. Transporter 2 Acknowledgement of Receipt of Materials Month Year Printed Name Signature Day 19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

Signature

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

te-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 GOPY

Yellow- GENERATOR #1 COP

Month

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

Year 2017



ZAGEMENT		the first but being bein								
HAZARDOUS MANIFEST	1. Generator's US	EPA ID No. 82463010	Manifest Doc		2. Page :	1 of				
nerator's Malling Address: Conic Fastening Systems & F Eric Circle	Rings	Generator's Site Address	(if different than m	nailing):		est Number WM	AV-0	72017	007	
Verdi, NV 89439	V	Eric Circle /erdi, NV 89439			B. State Generator's ID State Generator's 10					
4. Generator's Phone 775-34 5. Transporter 1 Company Name	5-0345	6. US EP	A ID Number		AND SOURCE STATE	ASSESSED OF SE	APAINS		a the second	
Sierra Rental and Transport	(SRT)		Trib Ituliiaci		C. State	Fransporter's II	d NA			
USDOT 41412	(0)		I MA			orter's Phone		-358-734	14	
7. Transporter 2 Company Name		8. US EP	A ID Number		E. State Transporter's ID State Y:					
Fransporter & Contoany Name		us er	A19 Namber		orter's Phone		isporter 3			
9. Designated Facility Name and Site	Address	10. US E	PA ID Number						53058	
Lockwood Regional Landfill (Re					G. State	Facility ID	State	k famility	.1.	
2700 East Mustang Road			NA		H. State	Facility Phone	800-	-963-477	6	
Sparks, NV 89434										
			12. Coi	ntainers	13, Total	14. Unit			<u> </u>	
11. Description of Waste Materials	" (1 10	No.	Туре	Quantity	Wt./Vol.		wisc. Comme	nts		
 a. Non Regulated Material – No Nickle Impacted Soil) 	n Hazardous So	oil (Area 1 and 3 -	1	DT	16	Υ	•	Counter	.1	
The state of the s	e# 117132NV						200			
b. Weste Name		Fig.	÷γc÷	Tatal Qbs.	rest/ Vox		Jumpent	.s .		
WM Profile #	Well Profile Nun	dud'								
c. Ineits Name			Fig.	7 _{7,38} .	fregi Gw.	WUND		Con./ent	£	
WM Profile #	WM Profits Not	ALF.			施制数数					
d. Weste Kante	e wew to		No.	Type	Fotel **	My 1 J Note.	;	Comment	:	
WM Profile #	Wha Profile Numb	24.5								
J. Additional Descriptions for Material sciultional-Description			K. Dispos Direct L	al Location	- And the Control of	1 Head of the second second second	passas manus		<u> </u>	
west and the man with the most			Cell	anam			Level	T		
			Grid							
15. Special Handling Instructions and A Special Handling Instructions	dditional Information	on								
Purchase Order # 1140615		EMERGENCY	CONTACT / PHO	ONE NO.:	CHEMTE	REC (800-42	4-9300)			
16. GENERATOR'S CERTIFICATE:										
I hereby certify that the above-describe accurately described, classified and pac	ed materials are not kaged and are in pr	hazardous wastes as de	efined by CFR Pa	art 261 or a	ny applicabl	e state law, ha	ve been f	ully and		
Printed Name Lynzie Diehl, EHS Manager, Arconic Verdi Operations		Signatule	111	5			Month	Day	Year	
			My	LX	W		07	25	2017	
17. Transporter 1 Acknowledgement o	r keceipt or Materia		/ /	1			I M	1 5	T v.	
Printed Name Lapre	Z C	- //	war f	ope	20		Month 07	25	Year 2017	
18. Transporter 2 Acknowledgement o	r keceipt of Materia			10			T	T 5	T :	
Printed Name	•	Signature					Month	Day	Year	
19. Certificate of Final Treatment/Disp	osal						-1		-	
certify, on behalf of the above listed to applicable laws, regulations, permits an	eatment facility, th		wledge, the ab	ove-describ	ed waste w	as managed in	compliar	ice with all	ı	
20. Facility-Owner or Operator: Certific			s covered by th	is manifest						
Printed Name	\	Signature			0-	7	Month	PAT	Year	
Uh!)			("	D.	/	07	(2)	2017	
White TREATMENT STORAGE DISPOS	AL FACILITY CODY	Blue- GENERATO	OR #2 COPY		No.	llow- GENERAT	TOR #1 CC	DDV		

Pink- FACILITY USE ONLY



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2015998

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017

Payment Type Credit Account Manual Ticket#

Hauling Ticket#

Route

State Waste Code

Manifest

Waf

Destination

FD

1140615

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

JD 特

0001553

Time In 07/25/2017 12:21:21 5cale 01 Qut 07/25/2017 12:21:21

Scale

Operator

Inbound

Gross

GARYDERNERTRUCKING GARY DERNER TRUCK

Tare

Net Tons

Comments

Prod	uct	LĎ%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	18,00	Yards	25.00		\$450.00	WASHOE
2	WWM-P-Waste Water	100		1/2	4.75		\$30.64	WASHOE
3	EVF-P-Standard Env	100		%	14.50		\$93.52	WASHOE
4	RCR-P-Regulatory C	100		%	3.60		\$23, 22	WASHOE
5	FUEL-Fuel Surcharg	100	r.	%	4,68		\$30.19	WASHDE
6	TRANSLOAD-Transpor	100	1	Load	195.00	¥	\$1 95. 00	WASHOE .

Total Tax Total Ticket

\$822,57

Year

2017

Printed Name

402WM

Signature

Month Day Year

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name

Signature

Yellow- GENERATOR #1 COPY

Month

18. Transporter 2 Acknowledgement of Receipt of Materials



WASTE MANAGEMENT				0.0		VE A SE					
NON-HAZARDOUS MANIFEST	. Generator's U	S 41.71 (18.18)	Manifest Doc		2. Page 1	of .					
	NVD	982463010	fauns	J&:* 		<u> </u>					
3. Generator's Malling Address: Arconic Fastening Systems & Rir 1 Eric Circle	ngs	Generator's Site Address (Arconic Fastening Sys 1 Eric Circle				www.	AV-07	2017- (008		
Verdi, NV 89439		Verdi, NV 89439					Détiérator :				
4. Generator's Phone 775-345 5. Transporter 1 Company Name	-0345	6. US EPA	ID Number	1000 E-100							
Sierra Rental and Transport (S	SRT)			٠.	C. State T	ransporter's	ID NA		<u> Verschingen</u>		
USDOT 41412			NA D.				D. Transporter's Phone 775-358-734				
7. Transporter 2 Company Name		8. US EPA	ID Number								
Transporter 2 Company Name		USEPA	io number			ransporter's orter's Phon		Transpo pomer 2			
9. Designated Facility Name and Site Ad		10. US EP.	A ID Number	•				14.74	医 极病		
Lockwood Regional Landfill (Refu	ise, Inc.)		214		G. State F	acility ID		Facility :			
2700 East Mustang Road Sparks, NV 89434			NA .		H. State F	acility Phone	e 800-963-4776				
Sparret III 66 16 1											
11. Description of Waste Materials			No.	Type	13, Total Quantity	14. Unit Wt./Vol.	I. M	lisc, Comme	nts		
a. Non Regulated Material – Non Nickle Impacted Soil)	Hazardous S	Soil (Area 1 and 3 -	1	DT (16) Y	v	Por oskot	:		
WM Profile #	117132NV	to an analysis of the second					154				
b. Waste Name			Fig.	1904	Total Qt/	Wey Ye:	\\	ડે. તે. સાદે	2		
WM Profile#	k vá krajtile ko	wbar				4					
c. Wasta Name			[jo	Fysie :	ra.d	981 Z.	·	inidi enti	2		
WM Profile #	watsoan N	Į K _i (ĝer t		englisters.	ist:						
d. Avoste Name			Nr.	Type:	Tongi Goy	Way 1 44.	J.	ijaniant			
WM Profile#		We.							400		
J. Additional Descriptions for Materials Additional Description	Listed Above		Direct L	al Location andfill			1 1				
			Cell Grid				Level				
15. Special Handling Instructions and Add Special Handling Instructions	ditional Informa	tion									
Purchase Order # 1140615		EMERGENCY C	ONTACT / PHO	ONE NO.:	CHEMTR	EC (800-4	24-9300)				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described	materials are no	at hazardous wastes as defi	inad hy CER D	art 261 or a	ny amilicable	etata law l	nave heen ful	lly and			
accurately described, classified and packa							lave peeli lai	ny and			
Printed Name Lynzie Diehl,		Signature	1/				Month	Day	Year		
EHS Manager, Arconic Verdi Operations			shirt	24	a l		07	5.5	2017		
17. Transporter 1 Acknowledgement of R	eceipt of Mater	ials	7 4					14.0	1		
Printed Name Mylines		Signature	Xu	Vac			Month 07	Day &<	Year 2017		
18. Transporter 2 Acknowledgement of R	eceipt of Mater	ials			/			-4->	1027		
Printed Name		Signature					Month	Day	Year		
 Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treat applicable laws, regulations, permits and 	tment facility, t		ledge, the ab	ove-describ	ed waste wa	as managed	in complianc	e with all			
20. Facility Owner or Operator: Certificat	ion of receipt o		covered by th	is manifest.							
Printed Name)	Signature	ě.	02	\bigcirc		Month 07	3%	Year 2017		

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016017

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code

Manifest

WAF

Destination

PO

1140615

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIX CIRCLE)

Time

07/25/2017 12:54:34

Scale Scale 01 Operator

Carrier

Container

Billing #

Gen EPA ID

Driver

Check#

Grid

Vehicle# 196

Inbound

MIKE/VERDI FACILITY .

0001653

Gross

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Tare

Net

Out 07/25/2017 12:54:34

cb.

Tons

Conments

4

Product	LD%	Qty	LIOM	Rate	Tax	Amount	Origin	
Spwaste Solid WWM-P-Waste Wa SEVF-P-Standard RCR-P-Regulator FUEL-Fuel Surch	ter 100 Env 100 ry C 100 narg 100	16.00	Yards % % % % % Load	25.00 4.75 14.50 3.60 4.68 195.00	TO THE	\$400.00 \$28.26 \$86.27 \$21.42 \$27.85 \$195.00	WASHOE WASHOE WASHOE WASHOE WASHOE	

Malley

Total Tax Total Ticket

\$758.80

imer's Signature

5

" MIKE	Mycary	The to	way	07	85	2017
	Acknowledgement of Receipt of Ma	terials				性
Printed Name		Signature		Month	Day	Year
19. Certificate of	Final Treatment/Disposal	y, that to the best of my knowledge, the ab	oove-described waste was m	anaged in complianc	e with all	
applicable laws, re	egulations, permits and licenses on t	he dates listed above.				
applicable laws, re	egulations, permits and licenses on t	he dates listed above. It of non-hazardous materials covered by the		Month	CAL	Year

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY Gold-TRANSPORTER #1 COPY



1. Generator's US EPA ID No. Manifest Doc No. NVD982463010 3. Generator's Mailing Address: Arconic Fastening Systems & Rings 1 Eric Circle Verdi, NV 89439 1. Generator's US EPA ID No. Manifest Doc No. NVD982463010 2. Page 1 of 1 A. Manifest Number WM AV Arconic Fastening Systems & Rings 1 Eric Circle Verdi, NV 89439 3. Generator's Site Address (If different than mailing): Arconic Fastening Systems & Rings 1 Eric Circle Verdi, NV 89439	/-072017- <u>00</u>
3. Generator's Malling Address: Arconic Fastening Systems & Rings 1 Eric Circle Verdi NV 89439 A. Manifest Number WM AV Arconic Fastening Systems & Rings 1 Eric Circle B. State Generator's Site Address (If different than malling): Arconic Fastening Systems & Rings 1 Eric Circle B. State Generator's Site Address (If different than malling): Arconic Fastening Systems & Rings 1 Eric Circle	0.00-0.00 (0
Arconic Fastening Systems & Rings 1 Eric Circle	
1 VARN NV XVX.59	
4. Generator's Phone 775-345-0345 5. Transporter 1 Company Name 6. US EPA ID Number	
MA	NA .
USDOT 41412 D. Transporter's Phone /	75-358-7344
7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID 5	Mate Transporter ()
F. Transporter's Phone 1:	ransporter i Phone
9. Designated Facility Name and Site Address Lockwood Regional Landfill (Refuse, Inc.) 10. US EPA ID Number G. State Facility ID	
	sate Pacificy (2) 00-963-4776
Sparks, NV 89434	
11. Description of Waste Materials 12. Containers 13. Total 14. Unit	I. Misc. Comments
NO. Type Quality. They out	- Maria Comments
a. Non Regulated Material – Non Hazardous Soil (Area 1 and 3 - Nickle Impacted Soil)	Comments
WM Profile # 117132NV	
b. Wasta Navie Type Type Gty Winy Vot.	in ordering
WM Profile # VVI A Profile Assence:	Artice State of the Control
c. Westername	Converses
WM Profile # WM Profile National Nation	
d. Westernoone	Lo impents
WM Profile # WM Profile Authority J. Additional Descriptions for Materials Listed Above K. Disposal Location	
** Additional Description Direct Landfill	
Cell Level Grid	
15. Special Handling Instructions and Additional Information	
Special Handleng institutions	٠,
	201
Purchase Order # 1140615 EMERGENCY CONTACT / PHONE NO.: CHEMTREC (800-424-930) 16. GENERATOR'S CERTIFICATE:	JOJ
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been	en fully and
accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.	
Printed Name Lynzie Diehl, EHS Manager, Arconic Verdi Operations Signature	nth Day Year
July 107	25 2017
17. Transporter 1 Acknowledgement of Receipt of Materials Printed Name Signature Mor	nth Day Year
REVINTEEPLES FROM LEPTURE OT	25 2017
18. Transporter 2 Acknowledgement of Receipt of Materials	
Printed Name Signature Moi	nth Day Year
	1 1
19. Certificate of Final Treatment/Disposal	
	liance with all
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in comp applicable laws, regulations, permits and licenses on the dates listed above.	liance with all
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in comp applicable laws, regulations, permits and licenses on the dates listed above. 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Printed Name Signature	

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY
PINK-FACILITY USE ONLY

Blue- GENERATOR #2 COPY



Refuse, Inc. - Lockwood Landfill

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

TESLA

2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016042

Volume 18.0

Customer Name TETRATECH TETRA TECH Ticket Date 07/25/2017 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

PO Profile 1140615

Generator

117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Carrier Vehicle#

Driver

Check#

Grid

Container

Billing #

Gen EPA ID

203

KEVIN

0001653

JUB#

Time Scale Inbound Gross 07/25/2017 13:34:55 Scale 01 cb. Tare In Net Out 07/25/2017 13:34:55 cb Tons

Comments

Proc	luct	LD%	Qty	MOU	Rate	Tax	- Amount 👡	Origin
1 2	Spwaste Solid Oth- WWM-P-Waste Water	102	15.00	Yards %	25.00 4.75	A terms been view over dead some more	\$400.00 \$28.26	WASHOE WASHOE
3	EVF-P-Standard Env			*\ *\	14.50		\$86.27 \$21.42	WASHOE WASHOE
4 5	RCR-P-Regulatory C FUEL-Fuel Surcharg			7a	3.60 4.68		\$27.85	WASHOE
6	TRANSLOAD-Transpor		1	Load	195.00		\$195.00	WASHOE

Total Tax Total Ticket

\$758.80

402WM			
Driver'	-	Si	п

nature

2017 SPORTER 18. Transporter 2 Acknowledgement of Receipt of Materials Signature Month Day Year Printed Name 19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name Signature

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

Year 2017



Pink- FACILITY USE ONLY

NON-HAZARDOUS MANIFEST

	-SIE WANAGEWEIN											
	NON-HAZARDOUS MANIFEST	1. Generator's	US EPA	US EPA ID No. Manifest Doc No. 2					. of	٠,		
1	14	NVE	09824	63010		fatar:	3 2 1		1			
	3. Generator's Malling Address: Arconic Fastening Systems & I 1 Eric Circle Verdi, NV 89439	Rings	Arco		Address (If d ening Syste			A. Manifest Number WM AV-072017-0 B. State Generator's ID				010
		45-0345	Verd	li, NV 89	439				∵iS ,			
	5. Transporter 1 Company Name	10 00 10		6.	US EPA IE	Number						
	Sierra Rental and Transport	(SRT)			N	Α.		C. State 1	ransporter's l	D NA		
	USDOT 41412	300			11	Α .		D. Transp	orter's Phone	775	-358-734	14
	7. Transporter 2 Company Name			8.	US EPA ID	Number						
	Transporter 2 Company Name				55 EPA 10	en anter			ransporter's I orter's Phone		te 7ranspi isporter L	
	9. Designated Facility Name and Site			10.	US EPA I	D Number						
	Lockwood Regional Landfill (Refuse, Inc.)							G. State I	acility ID	. Stat	e Facility	:0
	2700 East Mustang Road Sparks, NV 89434							H. State I	acility Phone	800	-963-477	76
	Sparks, NV 69434											
	11. Description of Waste Materials	A ANT COMMON THAT SHE SHE			ntainers	13. Total	14. Unit	1	Misc, Comme	ints		
G	a. Non Regulated Material – No	n Hazardoue	Soil /	'Λτος 1 ο	nd 3	No.	Туре	Quantity	Wt./Vol.			
E N E	Nickle Impacted Soil)			Alea I a	iiu 3 -	1	DT	6	Y		Compani	
R		le# 117132N	V				06)316246					美国政化
A	b. Waste Name					Бэ	Tyde	Total Caw		,	Columbia.	:2
0	WM Profile#	Will Hother	وظلاني	e .								
К	c. Wigete Marke						77.00	Tyra! GC;	wit/You		Scoment	T.
	WM Profile# WW Profile in windsa						355					
	d. Nesta Nama					,,		Tohai				
		Y., . A F			•	NO.	Type	Cr.	Alt √ol.	and halls less a	Comment Resembles	
	J. Additional Descriptions for Materia	WWW. Profile fre				K Disnos	al Location	all the second				
	Additional Description					Direct L						
	When the destruction of the supplementation o					Cell				Level		
						Grid						
	15. Special Handling Instructions and A	Additional Inform	ation									
1	Special Handling Instructions		,						•			
-	Purchase Order # 1140615			FMF	RGENCY CON	TACT / PHO	ONE NO :	CHEMTE	EC (800-42	V-03UU)		
1	16. GENERATOR'S CERTIFICATE:			LIVIL	MOLIVET CON	inaci / i iic	JIL NO.	CITLIVITI	120 (000-42	4-55001		
	I hereby certify that the above-describe accurately described, classified and page									ave been f	ully and	
ł	Printed Name Lynzie Diehl,	chagea and are in	proper	-		N deco	Cong to ap	price regu	Tations:	T	Τ.	T
	EHS Manager, Arconic Verdi Operation	S		Signatu		111.	-		A	Month	Day	Year
	17. Transporter 1 Acknowledgement o	of Receipt of Mate	erials	<u></u>	1-	go	F	X		07	135	2017
1	Printed Name 1 /			Signatu	re	1	-1/)			Month	Day	Year
1	Tramon Les	pez C	11	1	Konto	six)	Trest	22 (°.		07	25	2017
	18. Transporter 2 Acknowledgement 6	f Receipt of Mate	erials	0	la .	0	110	5				
	Printed Name			Signatu	re					Month	Day	Year
+	19. Certificate of Final Treatment/Disp	osal										
	I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all											
:	applicable laws, regulations, permits and licenses on the dates listed above.											
-	20. Facility Owner or Operator: Certifi	cation of receipt	of non-	hazardous	materials co	vered by th	is manifest		U			1:
1	Printed Name			Signatu	re	MY				Month	Day	Year
	411					10	1			07	25	2017
	White-TREATMENT, STORAGE, DISPOS	AL FACILITY COP	Υ	Blue- G	SENERATOR #	2 COPY	~	Ye	llow- GENERA	TOR #1 CO)PY	

Gold-TRANSPORTER#1 COPY



Refuse, Inc. - Lockwood Landfill

2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016094

Customer Name TETRATECH TETRA TECH Ticket Date 07/25/2017 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest Destination PO 1140615 Profile

Carrier GARYDERNERTRUCKING GARY DERNER TRUCK Vehicle# 98 Volume 18.0 Container Driver A CIL

Check#

Billing # 0001653

Gen EPA ID

Grid

Generator

117132NV (AREA 3 NICKLE IMPACTED SOIL) 150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Scale Operator Inbound Gross . In 07/25/2017 15:00:45 Scale 01 cb Tare 07/25/2017 15:00:45 Dut cb. Net Tons

Comments

Product LD% Oty MOU Rate Tax Amount Origin Spwaste Solid Oth- 100 15.00 Yards 25.00 \$400.00 WASHOE 2 WWM-P-Waste Water 100 4.75 \$28.26 WASHOE 3 EVF-P-Standard Env 100 1/2 14.50 \$86.27 WASHDE RCR-P-Regulatory C 100 % 3.60 \$21.42 WASHOE' 5 FUEL-Fuel Surcharg 100 % 4.68 \$27.85 WASHOE TRANSLOAD-Transpor 100 Load 195.00 \$195,00 WASHOE

> Total Tax Total Ticket

41.

\$758,80

	1	*			4
N S P	18. Transporter 2 Acknowledgement of Receipt of Materials	Thomas Joseph	8		
R T E R	Printed Name	Signature	Month	Day	Year
F A	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that tapplicable laws, regulations, permits and licenses on the dates	to the best of my knowledge, the above-desc	cribed waste was managed in compliar	ce with all	ļ
L	20. Facility Owner or Operator: Certification of receipt of nor	n-hazardous materials covered by this manife	est.		
1	Printed Name	Signature	Month	Day	Year
Y	(42)	132	07	125	2017
	TOTATATATAT PODACE DISDOSAL FACILITY CODY	Blue- GENERATOR #2 COPY	Yellow- GENERATOR #1 CC	PY	

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Gold-TRANSPORTER #1 COPY

Pink-FACILITY USE ONLY



GENTERI											
ÁZARDOUS MANIFEST	1. Generator's US EP	A ID No.	Manifest Doc I	No.	2. Page 1	of					
ALANDOGS WANIFEST	NVD982	463010	Name -	}÷?'	1	L '					
nerator's Malling Address: conic Fastening Systems & Eric Circle	Arc	erator's Site Addres				est Number WM	AV-072		, ((
Verdi, NV 89439		ric Circle di, NV 89439			B. State Generator's ID . Etake Generator's .D						
5. Transporter 1 Company Name	40-0340	6. USE	PA ID Number								
Sierra Rental and Transport	(SRT)				C. State T	ransporter's II	NA C				
USDOT 41412	• • • • • • • • • • • • • • • • • • • •		NA	D. Transp	orter's Phone	775-358-7344					
7. Transporter 2 Company Name		8. US E	PA ID Number								
Transporter 2 Company Name		US E.	PARE Humber			ransporter's IL		Franspo			
9. Designated Facility Name and Site	Address	10. US	EPA ID Number		F. Transp	orter's Phone		Green I Sensens	171-05 E		
Lockwood Regional Landfill (R				G. State F	acility ID	Stans P	acidy i)			
2700 East Mustang Road			NA		acility Phone		63-4776				
Sparks, NV 89434											
11. Description of Waste Materials				tainers	13. Total	14. Unit	I. Misc, Comments				
a. Non Regulated Material – No	on Hazardous Soil	(Area 1 and 3 -	No.	Туре	Quantity	Wt./Vol.					
Nickle Impacted Soil)	y nou i and o	1	DT	16	Y						
b. Wasta Name	wm Profile # 117132NV b. V-asta Name				Total	TO THE PERSONS ASSESSED.			**************************************		
					Q.5/	Mary Sur.	sie:	Yallehil.			
WM Profile #	Astitub Ebent	<u></u> :									
c. Wraste legate			6.1.5	*yue	Tow!	13.2	Victorial Contra				
WM Profile #	WM Posts in North	£.	P(r)	/ -	U(t)				W.		
d. Maste Name					Forta:		d. Comments				
w o			Pvc.	7,00	STA	Wey Val.	1.6-	nments			
	WM: Profile Number					200					
J. Additional Descriptions for Materi	als Listed Above		K. Disposa Direct L	al Location							
≓dditional Description			Cell	anum			Level				
			Grid								
15. Special Handling Instructions and	Additional Information										
Special Handling Instructions											
Purchase Order # 1140615		EMERGENCY	CONTACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)				
16. GENERATOR'S CERTIFICATE:		8.0									
I hereby certify that the above-describ accurately described, classified and pa	ed materials are not ha ckaged and are in prop	zardous wastes as o er condition for trar	defined by CFR Pa asportation accor	ding to app	ny applicabl nicable regu	e state law, ha	ve been full	y and			
Printed Name Lynzle Diehl, EHS Manager, Arconic Verdi Operation	ıs	Signature		7/)	Month	Day	Year		
Zilo Maliagai, / Noomo yara, operano,			Shirl	X	人人		07	25	2017		
17. Transporter 1 Acknowledgement of	of Receipt of Materials										
Printed Name	EDI EC	Signature	18/20	10	10/1		Month	Day	Year		
18. Transporter 2 Acknowledgement of	Been	100	A PM		07	25	2017				
Printed Name		-			Month	Day	Year				
·											
19. Certificate of Final Treatment/Disp	2. Carbidinate of Final Treatment/Disposed										
I certify, on behalf of the above listed t		to the best of my kn	owledge, the ah	ove-describ	ed waste w	as managed in	compliance	with all			
applicable laws, regulations, permits a						as managed to		THE UII			
20. Facility Owner or Operator: Certifi	ication of receipt of no	n-hazardous materia	als covered by th	is manifest.							
Printed Name (G)		Signature		12/)		Manth	70	Year		
(11)		1	. 1		,		1 07	47	2017		

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

TESLA



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016134

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/25/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

PO

In

1140615

07/25/2017 16:06:35

07/25/2017 16:06:35

Profile Generator 117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time

Scale. Operator Inbound Gross Scale 01 Tare Met Tons

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

KEVIN

0001653

JOB带

Comments

Qty	UOM	Rate	Tax A	à iount	Origin
16.00	Yards	25.00		\$400.00	WASHOE
	2/2	4.75		\$28.26	WASHOE
	%	14.50		\$86.27	WASHOE
	1/0	3.60		\$21,42	WASHOE
	4	4.68		\$27.85	WASHOE
1	Load	195.00		\$195.00	WASHOE
		16.00 Yards % % %	16.00 Yards 25.00 % 4.75 % 14.50 % 3.60 % 4.68	16.00 Yards	16.00 Yards 25.00 \$400.00 % 4.75 \$28.26 % 14.50 \$86.27 % 3.60 \$21.42 % 4.68 \$27.85

15cm

Total Tax Total Ticket

\$758.80

Driver's Signature

402WM

18. Transporter 2 Acknowledgement of Receipt of Materials Signature Month Day Year **Printed Name** 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above. 20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest. Year Signature Printed Name 07 2017

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY

	<i>j</i>											
	MANIFEST	PA ID No. N 2463010	Nanifest Doc		2. Page 1	l of 1						
	illing Address: ening Systems & F	Ar	nerator's Site Address (If conic Fastening Sys			100000000000000000000000000000000000000	est Number WW	AV-07201	170	12		
	89439 4rator's Phone 775-34		Eric Circle erdi, NV 89439					Generator's ID				
	Insporter 1 Company Name		6. US EPA	D Number								
	Jerra Rental and Transport	(SRT)				C. State 7	Fransporter's II) NA				
	/USDOT 41412			NA		D. Transp	orter's Phone	775-358	-7344	4		
1	7. Transporter 2 Company Name		8, US EPA									
1			or enai	O Numbe.		E. State 7	ransporter's II	State Tra	eqen	rter iti:		
	Transporter 2 Company Name		U3 Erni	D MO 10221		F. Transp	orter's Phone	· iranspor	ta: 2	Phace		
	9. Designated Facility Name and Site A		10. US EPA	ID Number								
	Lockwood Regional Landfill (Re	etuse, Inc.)		11.0		G. State		0.8-1 -760 <i>î</i>				
	2700 East Mustang Road Sparks, NV 89434			AV		H. State I	acility Phone	800-963	-4776	3		
	Sparke, 144 co to t											
	11. Description of Waste Materials				ntainers	13. Total	14. Unit	I. Misc. C	ommen	ts		
G E	a. Non Regulated Material - No	n Hazardous Soil	(Area 1 and 3 -	No.	Туре	Quantity	Wt./Vol.					
N	Nickle Impacted Soil)	ii i lazardoda oon	(Alca Falla o	1	DT	6	Υ	(A) (\$7.0	i anti			
Ε		# 117132NV							(Colors	0.500500		
R	b. Wasta Name	111102111		300000000000000000000000000000000000000	Section of the sectio	Ten		A	esti ancist	SAN STREET, SAN		
A T				60	1709	Qtv	Mur Vai.	Jorna	y ents			
0	. WM Profile #	WW. Froite No.5 s	14 c		449769988000							
R	c. Weste Name	951V. 1:01, E 13C.11	75	750E80	AND CASE OF	Time		Walter State of the State of th		E SHAREST PROPERTY.		
	G. Press Rens.			6.0	Taus	Laty.	No./ Vol.	Echy	aents			
	WM Profile#	WM Fronte Num	I.e.:	C						SERVE E		
	d. Wasta Marea			33377254500		Total	- Under Anderson British		(E-1-2-7)			
				12-31.	Type	Otty.	Will vol.	éd m	Tens			
	WM Profile #	WM Profile Numbe	er.									
	J. Additional Descriptions for Materia				al Location			The second secon	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A PART OF THE PART		
	Auditional Description			Direct L	andfill							
				Cell				Level				
	45.0 2411 211 4 4 4 4 4 4	1.124		Grid								
25	15. Special Handling Instructions and A	.aajaonai informatior										
	Purchase Order # 1140615		EMERGENCY CO	NTACT / PHO	ONE NO.:	CHEMTE	REC (800-42	4-9300)				
	16. GENERATOR'S CERTIFICATE:											
	I hereby certify that the above-describe accurately described, classified and pac	ed materials are not h kaged and are in pro	azardous wastes as defir per condition for transpo	tation acco	art 261 or a rding to app	ny applicabl dicable regu	e state law, ha lations.	ve been fully a	nd			
	Printed Name Lynzie Diehl,		Signature	11 1	~)'		1	Month (Day	Year		
	EHS Manager, Arconic Verdi Operations		1 1.2	1.1	γ	1 1	}	07 3	6	2017		
_	17. Transporter 1 Acknowledgement of	Receipt of Materials		4				107 12.		2017		
	Printed Name	- Neceipt of Materials	Signature					Month [Day	Year		
N	Timed Harie		S.B.I.a.					07	-	2017		
P	18. Transporter 2 Acknowledgement of	Receipt of Materials	,									
R	Printed Name		Signature	100.	1			Month I	Day	Year		
E	MIKE melen		1 10	Im	con	,		07 2	6	200		
-			7.0.0		-/-			10 2				
F	19. Certificate of Final Treatment/Dispo		to the best of my knowl	adga tha ab	also dosorib	and waste w	or managad in	campliance w	ith all	1		
A C	I certify, on behalf of the above listed tr applicable laws, regulations, permits an			euge, the ab	ove-describ	ied waste W	as managed in	compliance W	iui ali			
	20. Facility Owner or Operator: Certific			øvered hv th	is manifest							
1	Printed Name 1		Signature	7	1			Month I	Day	Year		
Y	KALA, V (M)	(180		1/1/11	la	Ŧ		07	-	2017		
	White-TREATMENT, STORAGE, DISPOS	AL FACILITY COPY	Blue- GENERATOR	#2 COPY		Ye	llow- GENERAT		- 1	لــــــــــــــــــــــــــــــــــــــ		
	Pink- FACILITY USE ONL		Gold-TRANSPORTE	1								

MIKE/VERDI FACILITY

0001653

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Net



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016432

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

00

Profile

1140615

In 07/26/2017 08:24:02

Out 07/26/2017 08:24:02

117132NV (AREA 3 NICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Scale 2

Generator Inbound Gross Time Scale Operator Tare

kg

kŋ A Manual Weight Tons

Comments

						4.5	
Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- WWM-P-Waste Water EVF-P-Standard Env RCR-P-Regulatory C FUEL-Fuel Surcharg TRANSLOAD-Transpor	100 100 100 100	16.00	Yards % % % Load	25.00 4.75 14.50 3.60 4.68 195.00	res (m. dan 2018 (104) ana 422 (402 (402)	\$400.00 \$28.26 \$86.27 \$21.42 \$27.85 \$195.00	WASHOE

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

Total Tax Total Ticket

\$758.80

2 1b#

1 15%

1 1b

Driver's Signature 402WM



					2 4 4 4				
	1. Generator's US EP/ NVD982		lanifest Doc		2. Page 1	. of 1.			
	Arce	erator's Site Address (#6 onic Fastening Syst			A A A A A A A A A A A A A A A A A A A	est Number WWI	AV-072017-	013	
		ric Circle di, NV 89439			B. State Generator's ID Score 'Denorator's (D				
	er 1 Company Name	6. US EPA II	D Number						
	ental and Transport (SRT)	1	1A			ransporter's li		44	
	/T 41412 Asporter 2 Company Name	8. US EPA II	D Number		D. Transp	orter's Phone	775-358-73	44	
	risporter 2 Company Name		nedinum er			ransporter's li			
	. Designated Facility Name and Site Address	10. US EPA	ID Number		F. Transp	orter's Phone	fransocher: Swarzenweise	i Price	
	Lockwood Regional Landfill (Refuse, Inc.)	10. OSEFA	ID Number		G. State F	acility ID	State Feedity	Heimprenerie :C	
,	2700 East Mustang Road	N	IA			acility Phone	800-963-47		
1	Sparks, NV 89434							Carriedan	
	11. Description of Waste Materials		12. Co	ntainers .	13, Total	14. Unit	·		
G		/A== 1 == 10	No.	Туре	Quantity	Wt./Vol.	I. Misc. Comm	ents	
E N	a. Non Regulated Material – Non Hazardous Soil Nickle Impacted Soil)	(Area 1 and 3 -	1	DT	16	Y	Co-nmen	ts	
E	WM Profile # 117132NV								
A	b. Waste Name		App	7999	Total Qu	Wur Vot	17.797.68	ta l	
0	WM Profile # DVM: Profile Nambs	. /		2000				XXXXXXX	
R	c. Waste Name		riG		Toyal Giy	Wil/Vel	1,200,77-200		
	WM Profile # W.M. PASSA, Number	2	X PAGE	350550000			5		
	d. Waste Sama		953128639069		73191			NAME OF THE OWNER O	
			il	1,94	City.	will yet.	Co teaen	. د	
	WM Profile # Wive Profile in grad B		1000					医囊膜	
1	J. Additional Descriptions for Materials Listed Above Admitted at Casaripsian		Direct L	al Location				.	
			Cell		···	1	Level		
			Grid		·				
	15. Special Handling Instructions and Additional Information Special Handling Instructions				7				
	Purchase Order # 1140615	EMERGENCY CON	NTACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)		
	16. GENERATOR'S CERTIFICATE:							-	
	I hereby certify that the above-described materials are not had accurately described, classified and packaged and are in prope						ve been fully and		
1	Printed Name Lynzle Diehl,	Signature	1		(Month Day	Year	
1	EHS Manager, Arconic Verdi Operations			X	1 1)	07 26	2017	
т	17, Transporter 1 Acknowledgement of Receipt of Materials	1	29				107 10-0	1 2017	
RA	(Printed Name)	Signature		1	01.		Month Day	Year	
5	REVIN TEEPLES	13.	en	7 1	1 1/1/10	·	07 26	2017	
0	18. Transporter 2 Acknowledgement of Receipt of Materials	,					·		
TE	Printed Name	Signature					Month Day	Year	
-	19. Certificate of Final Treatment/Disposal								
F	I certify, on behalf of the above listed treatment facility, that to	o the hest of my knowle	dee the ab	ove-describe	ad wasta wa	as managad in	compliance with a	, 1	
c	applicable laws, regulations, permits and licenses on the dates		tile abt	dead int	.u maste We	manageu III	compliance with a	·	
1	20. Facility Owner or Operator: Certification of receipt of non-	-hazardous materials co	vered by thi	s manifest.	1	Ta. Dalangara and a street and a street			
Y	Printed Name	Signature	1	DAAR	0.	1	Month Day	Year	
1	LOTHY YMULA		4	KINC	th		07	2017	
	White- TREATMENT, STORAGE, DISPORAL FACILITY COPY PINK- FACILITY USE ONLY	Blue- GENERATOR # Gold- TRANSPORTER			Yell	low- GENERAT	OR#1 COPY		
	CHIN- FACILITY OSC ONLY	GOIG- INAMSPORTER	MI COLL A						

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

VERDI FACILITY



2401 Canyon Road Sparks, NV, 89434 _ Ph: 775-342-0401 Ticket# 2016465

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/2

07/26/2017

Payment Type Credit Account

Manual Ticket#

Hauling TicketH

Route

State Waste Code

Manifest

WAF

Destination

FO 1140615

Profile

......

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

WENTELETTI | MICCHAINAMINTLEGITTI I TUTI CINCI

Carrier

Driver

Check# Billing #

Grid

Container

Gen EFA ID

Vehicle# 203

Time Scale
In 07/26/2017 08:31:56 Scale 2
Out 07/26/2017 08:31:56

Scale Operator Scale 2 --> kg

e Manual Weight

Inbound Gross Tare

Tare 1 lb* Net 1 lt

2 1bx

ual Weight Tons

KEVIN JOSH

0001653

Comments

Pro	oduct , .	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2 3 4 5	Spwaste Solid Oth- WWM-P-Waste Water EVF-P-Standard Env RCR-P-Regulatory C FUEL-Fuel Surcharg	100 100 100	16.00	Yards % % %	25.00 4.75 14.50 3.60 4.68	v v v v v v	\$400.00 \$28.26 \$86.27 \$21.42 \$27.85	WASHOE WASHOE WASHOE WASHOE
6	TRANSLOAD-Transpor		1	Load	1.95.00		\$195.00	WASHOE

Total Tax Total Ticket

\$750 DO

Driver's Signature

402WM

	1								
MANIFEST	1. Generator's US EF NVD982	PA ID No. N 2463010	lanifest Doc		2. Page 1	. of 1			
ailing Address: ening Systems &	Are	nerator's Site Address (If conic Fastening Sys				est Number WW		/2017- <u>(</u>	14
/89439	Ve	Eric Circle rdi, NV 89439					Generator'.		
	45-0345	10.50	- · · · ·						
nsporter 1 Company Name	(CDT)	6. US EPA I	D Number		G State 3		NIA		运动场
rra Rental and Transport	(581)	i	NA		C. State Transporter's ID NA D. Transporter's Phone 775-358-7344				
SDOT 41412			D. Transp	orter's Phone	-611 	358-734	4		
7. Transporter 2 Company Name		8. US EPA I	C Chaha T		新州村田	计时间系统			
Transporter 2 Company Name		US EPA i		ransporter's IC orter's Phone		rTranspo porter 1			
9. Designated Facility Name and Site		10. US EPA	ID Number		200 100 100 100 100 100 100 100 100 100				
Lockwood Regional Landfill (R	efuse, Inc.)		1.6		G. State I			Facility I	
2700 East Mustang Road Sparks, NV 89434			NA		H. State F	acility Phone	800-9	963-477	6
Oparks, 147 00-10-1									
11. Description of Waste Materials	2/	I-many transmission and tender of the property and the		ntainers	13. Total	14. Unit Wt./Vol.	1. N	lisc, Commer	its
a. Non Regulated Material – No	on Hazardous Soil	(Area 1 and 3 -	No.	Туре	Quantity	wt./voi.			
Nickle Impacted Soil)	on trazardous don	(Alea I and 0 -	1	DT	16	Y	0	omaant	
	le# 117132NV		- Herest	3314569	SAME OF S			(1885)	
b. Waste Nerne	111102117		(-1)-	Pype	Tutal	WAY VOI	230063605666	2000/11/0000 C:::::::::::::::::::::::::::::::::	sauca fantie
WM Profile #	vehi Profile iso no						200000000		\$2055TROS
c. Wasta Name	SERVICE RESERVE	···	ASSESSED FOR	THE SECOND	Total	3000		eas and the control	
the exposit control			6,0	Tyde	ί, τ., ί, τ.γ.	WtJ Vol.		.sament	:
WM Profile #	WM Scottle filand	ا بيار	175,015,026	100					
d. Waste Flance			742.	.∵y∴e	Yutai	with voic		onment:	
WMA Profile #	WWW Profile Humbs				OTV ZNEM SORMA				3 3425 68
J. Additional Descriptions for Materi			K. Dispos	al Location	TARK - 1874 - 1970	Control of the Contro	THE REPORT OF THE PERSON OF TH		Section States
Additional Description			Direct L	.andfill			19		
			Cell				Level		
			Grid						
15. Special Handling Instructions and	Additional Information								1
Special Handling instructions									
Purchase Order # 1140615	-	EMERGENCY CO	NTACT / PHO	ONE NO:	CHEMTE	EC (800-42	4-9300)		
16. GENERATOR'S CERTIFICATE:		Emeriorite do	itinot / Thi		CHEWITT	120 1000 12	1 3300)		
I hereby certify that the above-describ	ad materials are not h	azardous wastes as defin	od by CEP D	ort 261 or a	ny annlicabl	e state law ha	va haan fu	lly and	
accurately described, classified and pa							ve been lu	ny anu	
Printed Name Lynzie Diehl,		Signaturé	/	7/		1	Month	Day	Year
EHS Manager, Arconic Verdi Operation	is	Signature)			
	CD CB4-1- 1.1	1 Vic	u	KA		/	07	26	2017
17. Transporter 1 Acknowledgement of	of Receipt of Materials			2					
Printed Name RAMOIN LODE	e (°	Signature	1	Dels	d		Month 07	a 6	Year 2017
18. Transporter 2 Acknowledgement		19 armon	07	8	(b		1 07	00	2017
Printed Name	or receipt or materials	Signature	256				Month	Day	Year
		o.g.iova.c	12						
								l	
19. Certificate of Final Treatment/Disp I certify, on behalf of the above listed i		to the best of my knowl	edge, the ab	ove-describ	ed waste w	as managed in	complianc	e with all	
applicable laws, regulations, permits a 20. Facility Owner or Operator, Certif	nd licenses on the date	es listed above.							
Printed Name ()	/ receipt of fic	Signature	1/0	mannest			Month	Dav	Year
111111111111111111111111111111111111111	CE OCI	J.B.Ideal C	(1)n	Ruce	a,		07	1)/2	2017
White-TREATMENT, STORAGE, DSPO	SAL FACILITY COPY	Blue- GENERATOR		mo		llow- GENERAT	1	N V	2027
Pink- FACILITY USE ON			d- TRANSPORTER #1 COPY						



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016477

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

PO

1140615

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time

07/26/2017 09:05:26

Scale

Operator

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

98

JD #

0001653

Inbound

Gross Tare

GARYDERNERTRUCKING GARY DERNER TRUCK

2 lb*

In Out 07/26/2017 09:05:26 Scale 2 --->

kg kg

Net

1 115%

* Manual Weight

Tons

1 1b

Comments

Pro	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
j.	Spwaste Solid Oth-	100	16.00	Yards	25.00		\$400.00	WASHOE:
2	WWM-P-Waste Water	100		×	4. 75		\$28.26	WASHOE.
33	EVF-P-Standard Env	100		%	14.50		\$86,27	WASHOE
4	RCR-P-Regulatory C	100		×	3.60		\$21.42	WASHOE
5	FUEL-Fuel Surcharg	100		%	4.68		\$27.85	WASHOE:
6	TRANSLOAD-Transpor		1.	Load	195.00		\$195.00	WASHOE

Total Tax Total Ticket

\$758.80

Driver's Signature 402WM





		1. Generator's US EP	A ID No.	Manifest Doc	No.	2. Page 1	of				
	ÁZARDOUS MANIFEST	NVD982		fatt:m			1				
	nerator's Mailing Address:	1110002	100010	375416		<u> </u>					
	aconic Fastening Systems & F		erator's Site Address onic Fastening S				est Number WW	AV-0	72017	015	
17	1 Eric Circle Verdi, NV 89439		ric Circle		90		B. Stat	e Generator			
	Total, IV bo loo	Ver	di, NV 89439			State Gene again: (C)					
		15-0345			_	× 12					
	5. Transporter 1 Company Name		6. US EP	A ID Number							
	Sierra Rental and Transport	(SRT)		NA		C. State Transporter's ID NA					
	USDOT 41412		-	D. Transp	orter's Phor	ie 775-	-358-734	4			
	7. Transporter 2 Company Name		8. US EP	A ID Number		F. State T	ransporter's	ID Stat	e Transoc	NEWSER	
	Transporter 2 Company Name		23.58	A IO HUMBOE.			orter's Phon		sporte: L		
	9. Designated Facility Name and Site		10. US E								
	Lockwood Regional Landfill (Re 2700 East Mustang Road	efuse, Inc.)		G. State F			g Sacility :				
	Sparks, NV 89434			NA	2-00-00-00-00-00-00-00-00-00-00-00-00-00	H. State F	acility Phon	e 800-	963-477	6	
						1,2	T				
G	11. Description of Waste Materials			No.	Type	13. Total Quantity	14. Unit Wt./Vol.	. 1.	Misc. Comme	nts	
E	a. Non Regulated Material - No	n Hazardous Soil	(Area 1 and 3 -	1	DT	12	Y		invient		
N E	Nickle Impacted Soil)	4474001114		CARPESTERS	I MECOLEMENT	16	1.0401.0101.012424				
R	b. Waste Name	e# 117132NV		3333333	SERVICE SERVICES		27422475		15721		
A T	** ** ********************************			No	. y 3€	Tatai Oty	WLy . o!		ic ment	5	
ò	WM Profile #	Wibi Padhe Namo	3.e	256552.004			à	0 0000			
R	c. Waste Mente			30000000000000000000000000000000000000	and the second second second	Fig. : (ACCIONAL MARK	#6 D4918/#2741448	<u>SUENSHARREN</u>		
				()	7,96	GW.	Wtu Voi		Conment	<u> </u>	
	WM Profile #	WMI Profite Humb	ć.								
	d. Walta Name			NS	79,06	Total	WE 1998		calment	2	
				PARTITION NO.	ROMEOUN MARKET	Otv.	CONTRACTOR OF THE	SA GUVANARTAN	PARKET NAME OF THE	2014	
}	J. Additional Descriptions for Materia	WM Profile Lanua.		K Dienos	al Location						
	Additional Description	iis listed Above		Direct L							
1				Cell				Level			
-	15 Charlet Handling Instructions and A	dditional Information		Grid					-;		
1	15. Special Handling Instructions and A Special Handling methodicas	dultional information									
1	Special ration & produced to										
t	Purchase Order # 1140615		EMERGENCY (CONTACT / PHO	ONE NO.:	CHEMTR	EC (800-4	24-9300)			
1	16. GENERATOR'S CERTIFICATE:							<u>`</u>			
1	I hereby certify that the above-describe							nave been fu	ally and		
ł	accurately described, classified and pac Printed Name Lynzie Diehl,	kaged and are in prop	er condition for trans	portation acco	rding to app	licable regu	lations.			-	
	EHS Manager, Arconic Verdi Operations	3	Signature	1)(h /	. \)	Month	Day	Year	
4			1	Aug			<u> </u>	07	126	2017	
T R	17. Transporter 1 Acknowledgement of	f Receipt of Materials		1							
A N	Printed Name Mikey	•	Signature	M	Kar	1		Month 07	a G	Year 2017	
P	18. Transporter 2 Acknowledgement of	Receipt of Materials						,	100		
R	Printed Name		Signature	***************************************	1%			Month	Day	Year	
R											
1	19. Certificate of Final Treatment/Dispo	osal							<u></u>		
F A	I certify, on behalf of the above listed tr			wledge, the ab	ove-describ	ed waste w	as managed	in complian	ce with all		
-	applicable laws, regulations, permits an										
Ī	20. Facility Owner or Operator: Certific	ation of receipt of nor	n-hazardous materials Signature	covered by th	is manifest.			Manut	D	V	
Y	Mall lake	CO 00	Signature	0(MC	ā.	•	Month 07	Day	Year 2017	
	White-TREATMENT, STORAGE, OSPOS	AL FACILITY COPY	Blue- GENERATO	OR #2 COPY	W	Yel	low- GENER		PY	2017	
	Pink- FACILITY USE ONL		Gold-TRANSPORT	/) '				35000	绣	



2401 Canyon Road Sparks, NV, 89434 Ph a 775-342-0401

Ticket# 2016479

Volume 16.2

Customer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route

State Waste Code

Manifest

WAF.

(20)

1140615

Profile

117132NV (AREA 3 NICKLE IMPACTED SOIL)

Generator

Destination

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time

Scale Scale 2 ---> Operator

Orid

Inbound

MIKE/VERDI FACILITY

0001653

Gross Tare

2 1b*

07/26/2017 10:08:31 In 07/26/2017 10:08:31

kg

196

Net

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

1 1bw

Out

ku

* Manual Weight

Carrier

Driver

Check#

Vehicle#

Container

Billing #

Gen EPA II)

Comments

Tons

i 1b

2.00	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth- WWM-P-Waste Water		16.00	Yards %	25.00 4.75		\$400.00 \$28.26	WASHOE WASHOE
3	EVF-P-Standard Env RCR-P-Regulatory C			% %	14.50 3.60		\$86.27 \$21.42	WASHOE WASHOE
5	FUEL-Fuel Surcharg TRANSLOAD-Transpor		1.	% Load	4.68 195.00		\$27.85 \$195.00	WASHOE WASHOE

Total Tax Total Ticket

\$758.80

Driver's Signature 402WM



AT											
US MANIFEST	1. Generator's US		M	anifest Doc		2. Page 1					
	NADA	82463010		[+::17]; 	oer .		L L				
, Mailing Address: stening Systems & I de	THRIS	Generator's Site Add					est Number WW	AV-07	2017- <u>C</u>	16	
√ 89439		Eric Circle					B. State Generator's ID				
erator's Phone 775-34	45-0345	/erdi, NV 89439					State G	President.	40		
Insporter 1 Company Name	10-00-10	6. U	JS EPA ID	Number							
arra Rental and Transport	(SRT)					C. State 7	ransporter's II) NA			
JSDOT 41412			N	IA		D. Transp	orter's Phone	775-3	358-734	4	
7. Transporter 2 Company Name		8. U	IS EPA ID	Number							
Fransporter 2 Company Name		i,	S EPA H	Distribusión			ransporter's II orter's Phone		Transpo porter 2		
9. Designated Facility Name and Site	Address	10,	US EPA I	D Number		111111111111111111111111111111111111111	orter o mone				
Lockwood Regional Landfill (Re				•		G. State F	acility ID	Mate	Facility !		
2700 East Mustang Road			Ŋ	Α		H. State F	acility Phone		963-477		
Sparks, NV 89434									ov Saria		
	· · · · · · · · · · · · · · · · · · ·	255455544252		12. Co	ntainers	13. Total	14. Unit	DECEMBER	(49 E A) (50	Nes realises	
11. Description of Waste Materials				No.	Туре	Quantity	Wt./Vol.	1. N	lisc, Commer	nts	
a. Non Regulated Material – No Nickle Impacted Soil)	on Hazardous So	oil (Area 1 and 3	3 -	1	DT	6	Υ	O	COMPER		
WM Profil	e# 117132NV										
b. Waste Name				815	Type	Total - Qty	Wil/Yo	iC.	Jarraeat.	:	
WM Profile #	Vyta Profile Nea	áli£:									
c. Weste Name				new and services	-	Tork!	A THE STATE OF THE	ctus (Innerviole Care)	<u>uanumentike</u>	en e	
				Pio	Ty _i :€	QT/	W:/Vol.	~.'.	or Inventy		
WM Profile #	WM Profits Nut	raber									
d. Wasse Name		v pA		No.	Typs	Total Qty	Met . Wel.	- · · · · · · · · · · · · · · · · · · ·	Somoens	.	
WM Profile #	With Probleman:	Die!									
J. Additional Descriptions for Materia	als Listed Above	-			al Location						
Additionar Description		4		Direct L	andfill			Lavel			
				Cell				Level			
15. Special Handling Instructions and A	Additional Informati	on								$\neg \neg$	
Special Handling Instructions										Ì	
Purchase Order # 1140615		EMERGE	NCY CON	ITACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)			
16. GENERATOR'S CERTIFICATE:										1	
I hereby certify that the above-describe accurately described, classified and page								ve been fu	ly and		
Printed Name Lynzie Diehl,	chaged and are in pi		Hallshop	tation accou	diffe to abb	ilicable regu	ations.	Г		\Box	
EHS Manager, Arconic Verdi Operation	S	Signature		1.1	Ι.	V .)	Month	Day	Year .	
17. Transporter 1 Acknowledgement of	of Receipt of Materia	als \	N/	4	X 1			07	26	2017	
Printed Name 21	O3 1	Signature	2/1		2	11.		Month	Day	Year	
REVIN 1	EEPLES	7	Kel	w	1 lef	W		07	26	2017	
18. Transporter 2 Acknowledgement of		ils	, , 		1		9				
Printed Name		Signature						Month	Day	Year	
19. Certificate of Final Treatment/Disp	and the second second	50									
I certify, on behalf of the above listed t applicable laws, regulations, permits ar			/ knowle	dge, the ab	ove-describ	ed waste w	as managed in	compliand	e with all		
20. Facility Owner or Operator: Certifi			erials co	vered by th	is manifest.						
Printed Name	110.0	Signature	λ	()n			-	Month	Day,	Year	
MHM	MIVE	5	(DEIM	lea	,		07	10	2017	
White-TREATMENT, STORAGE, DISPOS	V)	Blue- GENE		()		Ye	low- GENERAT	OR #1 COP	Y		
Pink- FACILITY USE ON	LY (Gold- TRANS	PORTER	#1 COPY							

2401 Canyon Road Sparks, NV, 89434 Phs 775-342-0401

Ticket# 2016471

Volume 16.0

astomer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route

State Waste Code

Mani.fest

WAF

Destination

PO

Time

Profile Generator 1140615

117132NV (AREA 3 MICKLE IMPACTED SOIL)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY (1 ERIK CIRCLE)

Carrier

Driver

Check®

Grid

Vehicle#

Container

Billing #

Gen EPA ID

203

KEVIN

0901653

JORN

Scale 07/26/2017 10:32:31 Scale 2 07/26/2017 10:32:31

En ku

聚酰胺 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤

Operator

Tare Het

Inbound

2 16% 1 1b*

* Manual Weight

Tons

Gross

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

VERDI FACILITY

1 1b

Comments

In

Out

							40	
Produ	uct	L.D%	Oty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.00	Yards	25.00		\$400.00	WASHOE:
2	WWM-F-Waste Water	100		1/2	4.75		\$28.26	WASHOE
3	EVF-P-Standard Env	100		n/	14.50		\$86,27	WASHOE
4	RCR-P-Regulatory C	100		*	3,60		\$21.42	WASHOE
5	FUEL-Fuel Surcharg			%	4,68		\$27,85	WASHOE
6	TRANSLOAD-Transpor		1.	Load	195.00		\$195.00	WASHOE

Total Tax Total Ticket

\$758.80

Driver's Signature

402WM

MANIFEST	1. Generator's NVI		1D No. N 163010	lanifest Doc		2. Page 1	of L		- a	
illing Address: ining Systems & I	Rings	1	erator's Site Address (if onic Fastening Syst		1.55	A. Manifest Number WM AV-072017-0				17
89439 rator's Phone 775-34	15-0345		ic Circle di, NV 89439			B. State Generator's ID				10
insporter 1 Company Name			6. US EPA I	D Number					(1.24 L)	
erra Rental and Transport	(CDT)		0. 002.77.	D realing Cr		C State 7	ransporter's	D NA		
	(31(1)		1	AV					250 70	4.4
JSDOT 41412						D. Transp	orter's Phone	1/5	-358-734	14
7. Transporter 2 Company Name			8. US EPA I	D Number						
Transporter 2 Company Name			US ERA I	o Aminasi			ransporter's l		e Transpi	
9. Designated Facility Name and Site	Address		10. US EPA	ID Number		F. Transp	orter's Phone	1:3:1	isporter s	
Lockwood Regional Landfill (Re			70			G. State F	acility ID	The state of the s	Contract Constitution of the Contract of the C	AMERICAN AND ASSESSMENT
2700 East Mustang Road	,,,,,,,			۱A				000	000 47	
Sparks, NV 89434			. '	17.		H. State	acility Phone	800-	-963-477	Ъ
11. Description of Waste Materials			, ghang julg, sag shift James Mar glip Care S dan ser Proch; Song A gelle S, Ausened A jar Ya-	12, Cor	ntainers	13. Total	14. Unit	T	Misc. Comme	nte
-	10 11 111	·		No.	Туре	Quantity	Wt./Vol.	1	Misc, Comme	ints
a. Area 2 - Nickle TPH Impacted	d Soil and der	oris		1	DT	16	Υ		jo. narent	:
WM Profile #	117114	INV								
b. Waste Name				Fig.	Пуре	Total . Sty	74°., 7701.		io malent	iš
WM Profile#	ag Na Profess N	o hibe	:							
c. Wasta Nama				flö	Type	Ter.ai	We' Wat		lunment	ς.
				W	The second second	Civ.	Designation of the Control		augustus au	cuinsverses
WM Profile #	WM Profite h	01111111111111111111111111111111111111	.*	福福福			ROLL CONTROL			南南南湖
d. Wasta Name	*		.*	Funt.	°70°	Total Cry	Wol. Val.		.o rimant	3
MANA Drofile #	WW Profits ha			AND THE REAL PROPERTY.						
J. Additional Descriptions for Materia		i Herit		K Dispos	al Location				美国国际	是是是是
And tional Description	iis Listed Above					Factione_	High PCS			
May from the polyphonia				Cell	Julation, i	astiano	riigiri 00	Level	Т	
1.0				Grid				LEVEI	1	
15. Special Handling Instructions and A	dditional Inform	ation		Tura						
Special Handling instructions	additional inform	ation								
Purchase Order # 1140615			EMERGENCY CO	NTACT / PHO	NE NO ·	CHEMTE	EC (800-42	4-9300)	<u> </u>	
16. GENERATOR'S CERTIFICATE:			LIVILINGENCI CU	THOI / FAC	ME NO.	CHEWIT	LC (000-42			
I hereby certify that the above-describe								ave been fu	ılly and	
accurately described, classified and pad (Printed Name)	mageu anu are m	hiohe		Lation accor	and to app	Leanie Lean	ימוחוזי	T	T	
	31		Signature	11. 1	.)	y.		Month	Day	Year
What Dien!			1 1	MA	LX		J	. 07	26	2017
17. Transporter 1 Acknowledgement o	f Receipt of Mate	erials		1,						
Printed Name	0		Signature			(1)		Month	Day	Year
KAMON LOPEZ	<u> </u>		Kamon	Joy	2012	<u>(3.</u>		07	26	2017
18. Transporter 2 Acknowledgement o	f Receipt of Mate	erials		0 0	U					
Printed Name			Signature					Month	Day	Year
10 Cartificate of Fig. 17 - 1 - 1/2:	!								<u></u>	
19. Certificate of Final Treatment/Disp							· ·			
I certify, on behalf of the above listed to				edge, the abo	ove-describ	ed waste wa	as managed in	complian	ce with all	
applicable laws, regulations, permits an										<u> </u>
20. Facility Owner or Operator: Certific	cation of receipt	or non-		vered by th	s manifest.					
Printed/Name	000		Signature	VI	X/n.	, ,		Month	Day	Year
NAMM IN	VILLA		The second second	4	XXII (la	Company and a	07	(1/20)	2017
White-TREATMENT, STORAGE OFFOS	AL FACILITY COP	V	Blue- GENERATOR	H2 COPVL	TO	Vol	low- GENERA	TOP #1 CO	DV	

Pink- FACILITY USE ONLY

Gold-TRANSPORTER #1 COPY



2401 Canyon Road Sparks, NV, 89434 Ph # 775-342-0401

Ticket# 2016466

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code

Manifest

WAF

Destination

FO

1140615

Profile

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Scale

Operator

Inbound

Gross Tare

GARYDERNERTRUCKING GARY DERNER TRUCK

2 1b# i lbn

In 07/26/2017 11:43:32 Out 07/26/2017 11:43:32 Scale 2 --> kg

kg

Net

1 15

* Manual Weight

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

JD #

0001653

Tons

Comments

Product		LD%	Qty	UOH	Rate	Tax	Amount	Origin
1	Spw Biorem RGC-Cub		16.00	Yards	65.00		\$1040,00	WASHOE
2	WWM-P-Waste Water	100		%	4.75		\$58,66	WASHOE
3	EVF-P-Standard Env	100		%	14.50		\$179.08	WASHOE
4	RCR-P-Regulatory C	100		×	3.60		\$44.46	WASHOE
5	FUEL-Fuel Surcharg	100		×	4, 68		\$57.80	WASHOE
6	TRANSLOAD-Transpor	100	1.	Load	1.9500		\$195.00	WASHOE

Total Tax Total Ticket

\$1575.00

Driver's Signature

402WM



Pink- FACILITY USE ONLY

NON-HAZARDOUS MANIFEST

	7	1. Generator's US	EDA ID No	Manifest Doc	No	2. Page 1	l of					
	ÁZARDOUS MANIFEST					1						
		82463010	53010 featurer			1						
	erator's Mailing Address:	Generator's Site Addr	erator's Site Address (If different than mailing): onic Fastening Systems & Rings			A. Manifest Number						
	∮nic Fastening Systems & l ∠ric Circle					VVIVI	AV-072017-018					
	Verdi, NV 89439	Eric Circle				B. State	Generator'	s ID ·				
	/ Vordi, 14V 00430	/erdi, NV 89439	i, NV 89439			State Generator Life						
	4. Generator's Phone 775-3											
	5. Transporter 1 Company Name	6. US	6. US EPA ID Number									
	Sierra Rental and Transport		NA			C. State Transporter's ID NA						
	USDOT 41412					D. Transporter's Phone 775-358-7344						
	7. Transporter 2 Company Name	8. 115	8. US EPA ID Number									
							E. State Transporter's ID State Transporter (Co					
	Transporter A Combany Name	i i b	Us Eñskel Market			F. Transporter's Phone Transporter 1.1/1.576						
	9. Designated Facility Name and Site	10. U	S EPA ID Number									
	Lockwood Regional Landfill (Re			G. State Facility ID								
	2700 East Mustang Road		NA			H. State Facility Phone 800-963-4776						
	Sparks, NV 89434				Ville of the							
				12. Co	ontainers	13. Total	14. Unit					
G	11. Description of Waste Materials			No.	Туре	Quantity	Wt./Vol.	. 1. 1	Misc. Comme	nts		
E	a. Area 2 - Nickle TPH Impacte	a. Area 2 - Nickle TPH Impacted Soil and debris WM Profile # 117114NV			DT	16	Y	Commence		·e		
V	A Distriction of Garage &				D I	(b	Termina property and the contract of the contr	11531D1010101131D10101010101		imala Zanarani		
?												
A	b. Waste Name		for		Ferliy City	WOAR	IC 9.1989EL					
7												
2		WM Profile# ve.ag *729 to Austribe*					100					
	c. Waste Neme			615	95 Type		Maryl Wall Vol.		Countents			
	WM Profile# WWW 8 not in Authorities				HERCE SHEET			-0.50E0.00		SPECIAL SEC		
	d. Wasta Str.,	VV1/15 1 14.2	I-Next-	ATTACK TO		950,000,000		Commence of the last				
	u. 77/3/2 2 .f.,		At.	"yp:	Yeval	With 90%	จากรถรัง		\$			
1			Tall Delivery and the	(Telleration but	Or.	December 1	Station parts	a a superior consister	240)(272)(274)(274)			
1		WM Profile # W/W From Endows Additional Descriptions for Materials Listed Above				原型基础		海黑旗影響		自然的		
1	Aductional Descriptions for Materia		K. Disposal Lo Bioremedia			High PCS						
			Cell			1,1,5,1,1,00		Level				
								-				
	15. Special Handling Instructions and	L5. Special Handling Instructions and Additional Information										
1	Spacisi handhig instructions											
	Purchase Order # 1140615		EMERGEN	CY CONTACT / PH	ONE NO.:	CHEMTE	EC (800-42	4-9300)				
	16. GENERATOR'S CERTIFICATE:					0.1						
	hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and											
	accurately described, classified and pa	ckaged and are in p	oper condition for tra	insportation acco	rding (o app	olicable regu	icable regulations.		r			
	Printed Name	1	Signature	W .)		1		Month	Day	Year		
	La Intie Die	nl	11.	ANAX	AA			07		2017		
1	17. Transporter 1 Acknowledgement of	of Receipt of Materia	als					1		1 2027		
t	Printed Name	Signature	Signature And				Month	Day	Year			
	MIKE MERY	MX	Many				07		2017			
1	18. Transporter 2 Acknowledgement of	als										
Ī	Printed Name	Signature		1			Month	Day	Year			
1	19. Certificate of Final Treatment/Disp	oosal						<u> </u>	L	-		
	certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all											
		pplicable laws, regulations, permits and licenses on the dates listed above.										
	20. Facility Owner or Pperator: Certifi	. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.										
1	Printed Name	Signature	Signature				Month	Pay	Year			
	LUMEN 1	MANCE		L	MU	ei	Vol. reported to the	07	1/20	2017		
-	White-TREATMENT, STORAGE, DISPOS	A FACILITY COPY	Blue- GENER	ATOR #2 COPY	Y		low- GENERAT	OR #1 CO	DV	~~~		

Gold-TRANSPORTER #1 COPY

MIKE/VERDI FACILITY

0001653

Ticket# 2016467

Volume 16.0

2401 Canyon Road Sparks, NV, 89434 Pha 775-342-0401

Customer Name TETRATECH TETRA TECH

Ticket Date 07/26/2017

Payment Type Credit Account

Manual Ticket# .

Hauling Ticket#

Route

State Waste Code

Manifest

Destination

PO

Profile

Generator

1140615

WAF

117114NV (MICKEL TPH IMPACTED SOIL AND DEBRIS)

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time Scale 07/26/2017 12:48:08 Scale 2 -Out 07/26/2017 12:48:08

Operator Ľц kq

* Manual Weight

Carrier

Driver

Check#

Grid

Vehicle#

Container

Billing #

Gen EPA ID

Inbound Gross Tare

1 1b# 1 15

2 1b#

Net Tons

SIERRATRUCKTRAN SIERRA TRUCK & TRAMS

Comments

Lin

Product LD% Oty HOU Rate Tax Amount Origin 1. Spw Biorem RGC-Cub 100 16,00 65,00 \$1040.00 Yards WASHOE 2 WWM-P-Waste Water 100 火 4.75 \$58,66 WASHOE 3 EVF-P-Standard Env 100 % 14.50 \$179.08 WASHOE 4 RCR-P-Regulatory C 100 110 3.60 \$44.46 WASHOE S FUEL-Fuel Surcharg 100 76 4,68 .\$57,80 WASHIDE TRANSLOAD-Transpor 100 1 Load 195.00 \$195,00 WASHOE

> Total Tax Total Ticket

\$1575.00

Driver's Signature

402WM



NON-HAZARDOUS MANIFEST

L				st Doc	No.	2. Page 1	. of			
RDOUS MANIFEST	NVD98	82463010 frui		hun.	5e1'		L			
or's Mailing Address: Fastening Systems & Circle	PURIOR I	enerator's Site Addi rconic Fastening			C. C		est Number WW	AV-07	2017	019
di, NV 89439	V	Eric Circle erdi, NV 89439						Generator'		
	45-0345					- Karangagan dan da		inician husban estada.	antanantanas	
5. Transporter 1 Company Name	· /CDT\	6. US	S EPA ID Nu	ID Number						
Sierra Rental and Transpor USDOT 41412	L (SKI)		NA	•		C. State Transporter's ID NA D. Transporter's Phone 775-358-7344				
7. Transporter 2 Company Name		8. US	S EPA ID Nu	mhor		D. Hansp	orter's Priorie		350-754 Billing	
						E. State T	ransporter's I	D State	enseemsese 2 Transpo	onerit.
fransporte: 2 Company Name		93	EFA.10 N.			F. Transp	orter!s Phone	rans	soorta: 2	Phone
9. Designated Facility Name and Site		10. U	IS EPA ID N	umber						
Lockwood Regional Landfill (R 2700 East Mustang Road	eiuse, mc.)		NA			G. State F		900 1	963-477	'G
Sparks, NV 89434		GARRAN GRAVE SERVICE	and the second second			H. State F	acility Phone	000-	303-477	
				ntainers	13. Total	14. Unit				
11. Description of Waste Materials				No.	Type	Quantity	Wt./Vol.	1. 1	Aisc. Comme	nts
a. Area 2 - Nickle TPH Impacte	ed Soil and debris			1	DT	16	Y	:.	o rerent	:
WM Profile	鬱									
bWasta Name		Na	Tyge:	TOUR GG.	W., U	Ü	ona est	ž.		
WM Profile #	WM Profile# Strat Profile Ale intlet									
c. Weste Nante		K0	7,25	Terri. uTv	Ven. 1757.		GTERRERE			
WM Profile #										
d. Wish Marrie		•		(41 ₀ .	nice.	Terel C* _F .		i,	o: untent	S
	Was elong som	e'	94.61 11.61							
J. Additional Descriptions for Mater	ials Listed Above				al Location	Contlone	High DCC			
Apdidional Description			Ce		ediation, F	asuane-	High PCS	Level		
4.2			Gi							
15. Special Handling Instructions and	Additional Information	on								
Special Handlety Listingue to										
Purchase Order # 1140615		EMERCEN	ICY CONTAC	T / DUC	INE NO :	CHENTE	EC (800-42	1 0300)		
16. GENERATOR'S CERTIFICATE:		LIVIERGEIV	ICI CONTAC	i / Fnc	JAL IVO	CHLIVIII	LC (800-42	4-3300)		
I hereby certify that the above-describ accurately described, classified and pa								ave been fu	lly and	
Printed Name		Signature	1 11				1	Month	Day	Year
LI INTIE I DEV	1		W	. K	\mathcal{L}	A)	07	26	2017
17. Transporter 1 Acknowledgement	of Receipt of Materia	ls	1	Y				10,	20	1 2027
Printed Name KEUIN TEE	PIES	Signature	16.11	h 2	Teen	des		Month 07	Day	Year 2017
18. Transporter 2 Acknowledgement	of Receipt of Materia	ls	1 600		1					
Printed Name				f4.		Month	Day	Year		
19. Certificate of Final Treatment/Dis	noral				***************************************					
I certify, on behalf of the above listed		at to the hest of my	knowledge.	the ab	ove-describe	ed waste w	as managed in	n complian	ce with all	
applicable laws, regulations, permits a 20. Facility Owner or Operator: Certi	and licenses on the da	tes listed above.					as managea n	- compliant		
Printed Name Constitution C		· Signature			//			Month	Day	Year
K (School)/1	720			(LIN	(la	/	07	7/20	2017
White-TREATMENT, STORAGE, DISPO	SAL FACILITY COPY	Blue- GENER	RATOR #2 CO	OPY	14	Yel	llow- GENERA	TOR #1 CO	DY T	
Pink- FACILITY USE OF	NLY .	Gold-TRANSF	ORTER #1	COPY	11					



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016422

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/26/2017

Payment Type Oredit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code

Manifest

MAF

Destination

PO

1140615

Profile

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator :

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time In 07/26/2017 13:38:52 Out 07/26/2017 13:38:52 Scale Scale Ø1 Operator kg

Grid

Carrier

Driver

Check#

Vehicle#

Container

Gen EPA ID

Billing # 0001653

Inbound

KEVIN JOB#

Gross

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

VERDI FACILITY

Tare

Net Tons

Comments

ùì.

Pro	duct	LD%	Qty	MON	Rate	Tax	Amount	Origin
1 2 3 4 5 6	Spw Biorem RGC-Cub WWM-P-Waste Water EVF-P-Standard Env RCR-P-Regulatory C FUEL-Fuel Surcharg TRANSLOAD-Transpor	100 100 100 100	16.00	Yards % % % % Load	85.00 4.75 14.50 3.60 4.68 195.00	2.	\$1040.00 \$58.66 \$179.08 \$44.46 \$57,80 \$195.00	WASHOE WASHOE WASHOE WASHOE WASHOE

fain

Total Tax Total Ticket

\$1575.00

Year

2017

Driver's Signature

Printed Na

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name
Signature

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

Signature

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

White-TREATMENT, STORAGE, DISPOSAL FACILITY COPY

, STOTOTAL, SEPT OSAL THOLETT

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Month

Pink- FACILITY USE ONLY



NON-HAZARDOUS MANIFEST

		1. Generator's	US EPA	ID No.	Manifest Doc	No.	2. Page 1	of			
	ARDOUS MANIFEST	NVE	9824	163010	(24,7)	3 a :		L			
	erator's Malling Address:	L					A Manife	est Number			
	conic Fastening Systems &	Rings		erator's Site Address				WM	AV-0	72017- <u>C</u>	120
5	Eric Circle			onic Fastening Sy	stems & Rir	ngs					
4	Verdi, NV 89439			ic Circle di, NV 89439			B. State Generator's ID				
		Annual Motor America	verd	JI, INV 09439				21,350	and the contract	, · · · · ·	
		45-0345	- continue comprise to							Section of the	Lyming Structures 1
	. Transporter 1 Company Name	(\)	6. US EPA	A ID Number							
1	lierra Rental and Transport	(SRT)			NA			ransporter's			
_	JSDOT 41412						D. Transp	orter's Pho	ne 775-	-358-734	4
7	. Transporter 2 Company Name	ID Number					網灣開闢				
1	tansporter L Contpany Name	an Marcher			ransporter's		e Transpo				
		A ID Number		F. Transp	orter's Phor	ie iren	sporter 2 Westerward	Frone Markette			
	. Designated Facility Name and Site	A ID Number		C State 5				96667484209			
	Lockwood Regional Landfill (Refuse, Inc.) 2700 East Mustang Road				NA		G. State F		- 900	963-477	6
	Sparks, NV 89434				PERMITANG KARANGSAN	marani Marasin	H. State F	acility Phon	e ouu-	903-477	O
	-										
1	1. Description of Waste Materials				No.	ntainers Type	13. Total Quantity	14, Unit Wt./Vol.	l.	Misc. Commer	nts
a	a. Area 2 - Nickle TPH Impacted Soil and debris										
1					1	DT	16	Y			
	WM Profile	# 117114	NV								
b	. Waste Name						To tal				
-				25	646	: y_:::		9, VL		D. M. i. End.	3
	WM Profile #	or Notice to	خ. ۲۰۰۰ ∸	*				200			
c.	c. Waite Page				9642686436919691	250000000000000000000000000000000000000	i i i	None parameter		Darbithaninaenh	idiativ kater
	G. Avaita on a				175	* ***	City.	W .√ V.o		lvaritetik	
	WM Profile# WAS Shall all A made at										
d.	d. White Name						Total				
	**	51	i i		740	Tyres		MITAN	1 - 4	ionment.	I
	WM Profile #	Whi Stoble An						\$48.00 ET ET			
J.	Additional Descriptions for Materi				K. Dispos	al Location	SAMPLE MANAGEMENT	Character and the	ave zonnecesto	William Transfer	KONDANANINE
	Arid Gorga Description						astlane-	High PCS	3		
		S			Cell				Level		
				**************************************	Grld						
15	5. Special Handling Instructions and	Additional Inform	ation			14					
	Special Handling Industries		9								
_											
Pi	ırchase Order# 1140615	979		EMERGENCY C	ONTACT / PHO	ONE NO.:	CHEMTR	EC (800-4	24-9300)		
	6. GENERATOR'S CERTIFICATE:										
	nereby certify that the above-describ								have been fi	ılly and	
	curately described, classified and pa	ckaged and are in	prope	er condition for transp	ortation accor	ting to app	licable regul	ations.		T	
Pi	inted Name	01-1		Signature	1		,	1	Month	Day	Year
	Luntie Di	eni			Jul	M	人人	,	07	26	2017
17	7. Transporter 1 Acknowledgement of	of Receipt of Mate	erials			1					-
	Printed Name			Signature	1		1		Month	Day	Year
_	KAMON LOPES	2 C		Karvos	1 4	* POR	Co		07	2.1-	2017
18	. Transporter 2 Acknowledgement of	of Receipt of Mate	erials (10	-				
	Printed Name			Signature				4-%	Month	Day	Year
						(8					
10	Certificate of Final Treatment/Disp	nosal									-
	ertify, on behalf of the above listed t		that to	o the hest of my know	vledge the sh	nve-describ	ed waste w	as managed	in complian	ce with all	
	plicable laws, regulations, permits a				ricabe, the an	ore acauth	Ca waste w	20 manageu	m compilan	oc with all	
_). Facility Dwner or Operator: Certif				covered by th	is manifest.					
	Printed Name			Signature	1100			· · · · · · · · · · · · · · · · · · ·	Month	Day -	Year
	Rocher Milea			14/M	lea	_		07	76	2017	
W	hite-TREATMENT, STORAGE, DISPOS	SAL FACILITY COP	Υ	Blue- GENERATO	R#2 COPY	·	Yel	low- GENER	ATOR #1 CO	PY	

Pink- FACILITY USE ONLY



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016446

Volume 18.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/26/2017
Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

PO

1140615

Frofile

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY (1 ERIK CIRCLE)

Time

07/26/2017 14:18:42

Scale Scale 01 Operator

Carrier

Check#

Grid

Container Driver

Billing #

Gen EPA ID

Vehicle# 98

JD #

0001653

Inbound

Gross Tare

GARYDERNERTRUCKING GARY DERNER TRUCK

In

Dut 07/26/2017 14:18:42

kg kg

Net

Tons

Comments

Proc	luct	LD%	Qty	MOU	Rate	Тах	Amount	Origin
1	Spw Biorem RGC-Cub	100	16.00	Yards	65.00		\$1040.00	WASHOE
2	WWM-P-Waste Water	100		%	4. 75		\$58.66	WASHOE
3	EVF-P-Standard Env	100		%	14.50		\$179.08	WASHOE
4	RCR-P-Regulatory C	100		%	3.60		\$44.46	WASHOE
5	FUEL-Fuel Surcharg	100		%	4.68		\$57.80	WASHOE
E	TRANSLOAD-Transpor	100	1	Load	195.00		\$195.00	WASHOE

Total Tax Total Ticket

\$1575.00

Driver's Signature Roman Japes C
402WM

NON-HAZARDOUS MANIFEST

	ENT	VIII SEL 20				CL III JII 20	door not not not not		104	
	JOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No. 2. Page 1 of NVD982463010 Transport 1								
	s Mailing Address: astening Systems & Rings fircle NV 89439	Arce	erator's Site Address onic Fastening Sy ric Circle				est Number WM B. State (AV-07	2017- <u>(</u>	<u>021</u>
	Jenerator's Phone 775-345-0345	Ven	di, NV 89439				និងមេ ចិត្ត រូប	ะกะจัดให้รั	:£.	
	Transporter 1 Company Name		6. US EP/	A ID Number		SERVICE SERVICE				
,	Sierra Rental and Transport (SRT)			NA		C. State T	ransporter's (o NA		
4	USDOT 41412					D. Transp	orter's Phone	775-3	358-734	4
	7. Transporter 2 Company Name		8. US EPA	A ID Number		F State T	ransporter's II		Transpo	
	Transporter 2 Company Name			(12 hanes)			orter's Phone		porte: 2	
	Designated Facility Name and Site Address Lockwood Regional Landfill (Refuse, Inc.)		10. US EF	A ID Number		G. State F	a ellin ID			
1	2700 East Mustang Road			NA				900.0	162 477	2
1	Sparks, NV 89434		The state of the s	NA H. State Facility Phone 800-963-4776					O William and the Control of the Con	
1										
ſ	11. Description of Waste Materials		,		ntainers	13. Total Quantity	14. Unit Wt./Vol.	1. M	lisc, Commen	its
1	a. Area 2 - Nickle TPH Impacted Soil and	No.	Туре	-						
1	447	1	DT	16	Y	ANNERSON		- 		
1	b. Waste Name			Turk			學等語榜			
		Ho.	1408	Gry.	Marin Tibra		: Nanewij			
1	WM Profile # からっかい									
	c. Wasse Masse	fio	7,06	Tubli Uty	$d(x_i) \setminus x_i^*$.	Ì.	hannems			
	WM Profile # Will From									
	d. Wants States			146	7/05	To asi Qtv	Var i veli	1.3	omnients	
	WM Profile # Wisk Fronts	: Pauralies								
	J. Additional Descriptions for Materials Listed Abo				al Location	Cartlana	Uich DCC	COD. TO STATE OF STATE OF	2412130011	
	April Focus Description			Cell	ediadon,	rastiant-	High PCS	Level		
ŀ	15. Special Handling Instructions and Additional Info	ormation		Grid				***************************************		
	Special Handling Nationals (2		×							
-	Purchase Order # 1140615		EMERGENCY C	CONTACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)		
	16. GENERATOR'S CERTIFICATE:									
	I hereby certify that the above-described materials							ve been ful	ly and	
1	accurately described, classified and packaged and a Printed Name	re in prope	Signature .	ortation accor	raing to app	olicable regu	etions.	Month	D	V
	(unite. Dien)		Signature .	V. A	J. ,			07	R G	Year 2017
+	17. Transporter 1 Acknowledgement of Receipt of N	Materials		1				<u> </u>	. 0	201/
ľ	Printed Name Myle ser		Signature	me	mas	• 9		Month 07	Day	Year 2017
-	18. Transporter 2 Acknowledgement of Receipt of N	Materials	ffic	1 11 10	/			1 0/1	26	2017
1	Printed Name		Signature					Month	Day	Year
1										
	 Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facilities 	ility that A	o the hest of mucliman	uladaa tha rh	ava dasarih	ad waste	ac managod !-	compliant	o with all	
L	applicable laws, regulations, permits and licenses or	the dates	s listed above.				as manageu M	Compilatio	C WILLI dil	
	20. Facility wner or Operator: Certification of rece	eipt of non	-hazardous materials	covered by th	ls manifest.					
	Printed Name		Signature	10	211	0 -		Month	Pay,	Year
	JUNU JUICLA	CORY	Div- CENEDATO	W #2 COP #	MM	la	law Crains	07	101	2017
	White-TREATMENT, STORAGE, DISPOSAL FACILITY OF	COFT	Blue- GENERATO Gold- TRANSPORT	1	7	rei	llow- GENERAT	OK #1 COP	1	



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016481

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/26/2017 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

FO

1140615

Profile

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Time 07/26/2017 15:22:08 In Out 07/26/2017 15:22:08

Scale. Scale 01

Operator KD.

Grid

Carrier

-Vehicle#

Driver

Check#

Container

Billing #

Gen EPA ID

Inbound

MIKE/VERDI FACILITY -

0001653

Bross

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Tare Net Tons

Comments

Prod	uct	LD%	Oty	UÕM	Rate	Tax	Amount	Origin
4 5	Spw Biorem RGC-Cub WWM-P-Waste Water EVF-P-Standard Env RCR-P-Regulatory C FUEL-Fuel Surcharg TRANSLOAD-Transpor	100 100 100 100	16.00	Yards % % % % Load	65.00 4.75 14.50 3.60 4.68 195.00	min min and and an account	\$1040.00 \$58.66 \$179.08 \$44.46 \$57.80 \$195.00	WASHOE WASHOE WASHOE WASHOE WASHOE WASHOE

m May

Total Tax Total Ticket

\$1575.00

Year

2017

Driver's Signature

402WM

18. Transporter 2 Acknowledgement of Receipt of Materials Month Year Signature **Printed Name** 19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all

applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility pwner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Signature Printed Name

DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COP

Gold-TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

07

PINK- FACILITY USE ONLY



NON-HAZARDOUS MANIFEST

		1. Generator's US EPA ID		ID No. Manifest Doc No.		2. Page 1	of				
	NON-HAZARDOUS MANIFEST	NVDS	982463010)	·4 ·2	٠.	1				
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	I hereby certify that the above-describe	ed materials are no	ot hazardous	wastes as define	d by CFR Pa	art 261 or a	ny applicable	e state law, h	ave been fu	illy and	
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	EHS Manager, Arconic Verdi Operation	s							07	26	2017
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5	Ramon Lopez Cabrero								07	26	2017
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R											
	19. Certificate of Final Treatment/Disp	osal				107 18					
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C	applicable laws, regulations, permits an										
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials cov				vered by th	is manifest.			T w		l v.	
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GARYDERNERTRUCKING GARY DERNER TRUCK



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401 Ticket# 2016501

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date 07/26/2017
Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WAF

Destination

PO

1140615

Profile 1

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY(1 ERIK CIRCLE)

Carrier

Check#

Grid

Container Driver

Billing #

Gen EPA ID

Vehicle# 98

JD #

0001653

Time Scale Operator Inbound Gross
In 07/26/2017 16:09:31 Scale 01 kg Tare
Out 07/26/2017 16:09:31 kg Net
Tons

Comments

Proc	luct	LD%	Qty	UOM	Rate	Тах	Amount	Origin
i	Spw Biorem RGC-Cub	100	15.00	Yards	65,00		\$975.00	WASHOE
2 .	WWM-P-Waste Water	100		%	4.75		\$55.58	WASHOE
3	EVF-P-Standard Env	100		%	14.50		\$169.65	WASHOE
4	RCR-P-Regulatory C	100	1	%	3.60		\$42.12	WASHOE
5	FUEL-Fuel Surchard	100	•	%	4.68		\$54.76	WASHOE
6	TRANSLOAD-Transpor	100	i	Load	195.00		\$195.00	WASHOE

Total Tax Total Ticket

\$1492.11

Driver's Signature Raman Japas C.

63

NON-HAZARDOUS MANIFEST

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ous manifest	1. Generator's US EP		Manifest Doc		2. Page :				
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WM Profile #	Vyk- Froths wer ther								
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Purchase Order # 1140615		EMERGENCY CO	NTACT / PHO	ONE NO.:	CHEMTR	EC (800-42	4-9300)		
16. GENERATOR'S CERTIFICATE:						(555			
I hereby certify that the above-describe	ed materials are not ha	zardous wastes as defir	ned by CFR Pa	art 261 or a	nv applicabl	e state law, ha	ve been fu	lly and	
accurately described, classified and page	kaged and are in prope	er condition for transpe	rtation accor	rding to app	licable regu	ations.	10 10000		
Printed Name	1	Signature	16.			1	Month	Day	Year
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17. Transporter 1 Acknowledgement o	f Receipt of Materials	1 7		,			_ 0,		2017
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Printed Name	Printed Name Signature						Month	Day	Year
19. Certificate of Final Treatment/Disp	osal	-4					1	<u></u>	-
I certify, on behalf of the above listed to	reatment facility, that t	o the best of my knowl	edge, the ab	ove-describ	ed waste w	as managed in	compliand	e with all	
applicable laws/ regulations, permits an	d licenses on the dates	listed above.							
20. Facility Owner or Operator Certific	cation of receipt of non		overed by th	is manifest.	`				
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Pink- FACILITY USE ON	-T	Gold-TRANSPORTE	K #T COLL						



2401 Canyon Road Sparks, NV, 89434 Ph: 775-342-0401

Ticket# 2016637

Volume 16.0

Customer Name TETRATECH TETRA TECH

Ticket Date

07/27/2017

Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest WA

Destination

PO

1140615

Profile

117114NV (NICKEL TPH IMPACTED SOIL AND DEBRIS)

Generator

150-ARCONIC VERDIFACILITY ARCONICVARDIFACILITY (1 ERIK CIRCLE)

Time In 07/27/

07/27/2017 09:23:24

Out 07/27/2017 09:23:24

Scale Scale 01 Operator (9

Carrier

- Vehicle#

Driver

Check#

Grid

Container

Billing #

Gen EPA ID

196

Inbound

MIKE/VERDI FACILITY

0001653

Gross Tare

SIERRATRUCKTRAN SIERRA TRUCK & TRANS

Net

Tons

Comments

4

Prod	uct	LD% ·	Qty	Now	Rate	Тах	Amount	Origin
1	Spw Biorem RGC-Cub	100	16.00	Yards	65.00		\$1040.00	WASHIDE
2	WWM-P-Waste Water	100		% .	4.75		\$58.66	WASHOE
3	EVF-P-Standard Env	100	5 5 5	%	14,50		\$179.08	WASHDE
4	RCR-P-Regulatory C	100		1/4	3.60		\$44.46	WASHOE
5	FUEL-Fuel Surcharg	100		%	4.68		\$57.80	WASHOE
6	TRANSLOAD-Transpor	100	1	Load	195.00		\$195.00	WASHOE

May

Total Tax Total Ticket

\$1575.00

Year

Year 2017

Driver's Signature

Printed Man

White-TREATMENT,

MIKE MOLARY

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name

Signature

Signature

Month Day

Month

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws regulations, permits and licenses on the dates listed above.

20. Facility Oner or Operator Certification of receipt of non-hazardous materials covered by this manifest.

SPOSAL FACILITY COPY

NHM MIVELA

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

APPENDIX B PHOTOLOG



Photo 1: Markout of excavation areas; Area 2 shown.



Photo 2: Starting excavation of Area 1.





Photo 3: Loading soils into trucks for transport to the landfill.



Photo 4: Area 1 excavation progressing.





Photo 5: Checking depth of the excavation.



Photo 6: Area 1 prior to backfilling.



Photo 7: Area 1 following backfill, compaction, and grading, looking east-southeast.



Photo 8: Area 2 prior to backfilling.



Photo 9: Area 2 following backfill, compaction, and grading, looking east.



Photo 10: Excavation in progress on Area 3.





Photo 11: Boulders removed from the excavation and set aside; these boulders were returned to the excavation, as possible.



Photo 12: Confirmation of excavation depth in Area 3.





Photo 13: Area 3 excavation ready for backfill.



Photo 14: Area 3 following backfill, compaction, and grading, looking south-southwest.



APPENDIX C DIG PERMIT

	DIGGII	IG OR	DRIL	LING PERM	IT REQUISITION		
PER (Requester supplies p	MIT NUMBI ermit number a		mit.)	EQUIP / BLDG:	ROUTIN	G	
					Mech Design:		
PROJECT TITLE:		((Telephone Company Rep:				
REQUEST DATE: REQUIRED DATE: REQUESTE				REQUESTED BY:	* Environmental Control Ly		
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IS SOIL DISTURBANG	CE CE	ACCOUNT	<u>NO</u> : (Aut	horized Projects charge	Electrical Utilities		
REQUIRED? YES 1	<u>//O</u>	directly to RF.	A.)		Area Electrical		
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Contaminants of Concern:	
Project within Unit Covered by SMP? (Y/N)	
Sampling Requirements::	
Onsite Soil Management Requirements	
Worker Exposure Control Plan Requirements:	
Disposal Plan.	

And Seek Help if Any of the Following Occur During the Project and Not Addressed in the Project Planning and Procedures

- Solvent or Unusual Odors
- Free Petroleum Product in the Soil or Water
- Visible or Unusual Soil Staining
- Tanks, Vaults or other like Structures

** CONSTRUCTION AND USE OF DRINKING WATER WELLS WITHIN THE PLANT'S BOUNDARY IS PROHIBITED. **

Document: Dig Permit Requisition Owner: Environmental Lead Effective Date: August 14, 2017 Print Date August 11, 2017

STOP

APPENDIX D
SOIL MANAGEMENT PLAN

Prepared for Submission to: Washoe County Health District

Prepared on Behalf of:



Prepared By: Ramboll Environ US Corporation Arlington, Virginia

Date August 2017

Project Number 01-40267B

SOIL MANAGEMENT PLAN 1 ERIK CIRCLE, VERDI, NEVADA

SOIL MANAGEMENT PLAN 1 ERIK CIRCLE, VERDI, NEVADA

Revision

00

Date

August 2017

Made by

Rohan Chaudhary

Checked by

Sarah Stoneking

Approved by

Adam Johnston

Description

Soil Management Plan

Former Schlosser Forge Company - Viking Metallurgical

1 Erik Circle, Verdi, NV

Ref

01-40267B

Ramboll Environ 4350 North Fairfax Drive Suite 300 Arlington, VA 22203 USA

T +1 703 516 2300 F +1 703 516 2345 www.ramboll-environ.com

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1.	INTRODUCTION	1
1.1	Purpose of SMP	1
1.2	Site Conditions Summary	1
2.	REQUIRED ACTIONS	3
2.1	Personnel Notifications and Responsibilities	3
2.2	Digging Authorization	3
2.3	Requirements for Work Within the SMA	4
2.3.1	Facility EHS Approval	4
2.3.2	Health and Safety Notifications and Procedures	4
2.3.3	Sampling Requirements	4
2.3.4	Soil Characterization and Management	4
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3.2	Soil Characterization Data	5
3.3	Soil Disposal Documentation	5

FIGURES

Figure 1: Extent of Soil Management Area

ATTACHMENTS

Attachment 1: Dig Permit

Contents Ramboll Environ

1. INTRODUCTION

This Soil Management Plan (SMP) provides protocols that site personnel and contractors must follow in the event that soils within the designated Soil Management Area (SMA) at the Schlosser Forge Company located at 1 Erik Circle in Verdi, Nevada are to be disturbed during maintenance, construction, or other activities that will penetrate the ground surface. The SMA is depicted on Figure 1.

Section 2 of this document provides a list of required procedures that should be followed any time that the ground surface within the designated Soil Management Area is to be penetrated.

1.1 Purpose of SMP

The purpose of the SMP is to describe, generally, the procedures that will be employed when soil within the SMA is disturbed. The SMP has been developed to facilitate safe work practices for subsurface activities within the SMA, by outlining procedures that will be used for testing, handling, and disposal of impacted soil that may be encountered during future construction, repair, or other activities. Implementing the procedures in this SMP will help ensure that impacted soil (if encountered) is handled in a manner that is protective of human health and the environment, does not exacerbate the environmental condition of the site and surrounding properties, and in accordance with State and local regulations.

1.2 Site Conditions Summary

Nickel has been identified in site soil at concentrations exceeding the United States Environmental Protection Agency (USEPA) Industrial Regional Screening Level (RSL) at depths up to 10 feet below ground surface (bgs) within the SMA. More specifically, three areas of nickel-affected soil were identified. Nickel concentrations in soil appear to decrease significantly with depth prior to reaching the groundwater table. In July 2017, nickel-affected soils within the upper two feet of the SMA were excavated and disposed off-site, and subsequently replaced with clean fill material. These actions eliminated potential exposure pathways for routine on-site workers at the site. However, nickel-affected soils remain in place at depths greater than 2 feet bgs within the SMA. Based on the above, potentially complete exposure pathways exist for the following scenario:

 Future Construction Workers. Although no construction activities are currently planned, future construction workers could come into contact with soils containing nickel in excess of the Industrial RSL or inhale dust particles containing nickel in excess of the Industrial RSL.

Nickel is a naturally occurring metal in the Earth's crust; the Agency for Toxic Substances and Disease Registry (ATSDR) cites typical concentrations of nickel in soil as 4 to 80 mg/kg.¹ Nickel in the environment binds strongly to particles containing iron or manganese; the solubility of nickel increases under more acidic conditions. Based on information provided by ATSDR, studies do not indicate that nickel concentrates in fish or in small animals. According to the ATSDR, food is the major source of human exposure to nickel. Exposure may also occur via breathing air, drinking water, or smoking tobacco containing nickel, or via

Agency for Toxic Substances and Disease Registry (ATSDR) Toxicological Profile for Nickel, August 2005.

direct contact with soil or water impacted by nickel. Contact dermatitis is identified by ATSDR as the most common harmful effect of nickel in humans.

2. REQUIRED ACTIONS

The actions described below are intended to address the following elements:

- Protection of current site workers from direct contact with or inhalation of soils containing nickel in excess of the Industrial RSL;
- Protection of future site workers or construction workers based on direct contact with or inhalation of soils containing nickel in excess of the Industrial RSL.
- Conformance with regulations and guidance established by the NDEP and Washoe County Health District.

2.1 Personnel Notifications and Responsibilities

All site workers will be informed of the dig permit process and will be responsible for adhering to the dig permit process. Responsibility for implementation of this SMP lies with the facility manager and facility Environmental Health and Safety (EHS) Manager. These personnel are currently designated as follows:

Facility Manager: Mark Quattrin

Facility EHS Manager: Lynzie Diehl

The facility manager and/or facility EHS manager will be responsible for issuing dig permits for any future activities at the site that may disturb the ground surface and for determining whether the proposed activities fall within the SMA. If such activities are determined to occur within, or overlap the designated SMA, it will be responsibility of these personnel to inform the workers of the presence of nickel-affected soils; ensure that disturbed soils are appropriately characterized and managed off-site; and to ensure that workers include procedures during work that are protective, including the appropriate use of personal protective equipment and dust control.

2.2 Digging Authorization

Any on-site activity requiring penetration of the ground surface, including subsurface utility work, future construction, or other activities that may disturb the ground surface, will require the implementation of a dig permit process and authorization from the facility EHS manager. A copy of the dig permit for the facility is included as Attachment A.

When a dig permit is provided to the facility EHS Manager, the permit will be reviewed to determine whether the proposed activities may disturb soils within the SMA. If it is determined that such activities will disturb the SMA, the activities outlined in Section 2.3, below will be conducted, in addition to the *implementation* of Schlosser Forge Company's standard health and safety procedures.

2.3 Requirements for Work Within the SMA

2.3.1 Facility EHS Approval

Work within the SMA will require facility approval, including an authorized dig permit, which shall be maintained both by the facility EHS manager and the contractor or personnel performing the work.

2.3.2 Health and Safety Notifications and Procedures

Arconic has a strong commitment to health and safety and all site workers and subcontractors must adhere to Company health and safety policies and procedures. All site workers will be notified of the dig permit process and the dig permit process will be incorporated into site health and safety training. When a dig permit requisition form includes work that may disturb soils within the SMA, the permit will include specific mention of nickel as a contaminant of concern. Worker exposure control plan requirements will include the minimum use of USEPA Level D personal protective equipment to limit direct contact with nickel-affected soils and will also include provisions for control of visible dust via the application of a water spray or other effective method. If soils removed from the SMA require stockpiling, the soils will be stockpiled on plastic sheeting, bermed and covered with plastic sheeting at the end of each work day and during periods of precipitation to limit windblown particles or storm water runoff.

2.3.3 Sampling Requirements

If soils within the SMA will be disturbed, the soils will be tested for the presence of nickel to evaluate whether the soils can be stockpiled and re-used on-site or whether the soils will require off-site disposal. Soils exhibiting nickel in excess of 2,200 milligrams per kilogram (mg/kg) will require off-site management.

2.3.4 Soil Characterization and Management

If the proposed activities will include removal or excavation of soils within the SMA, the soils will be characterized for the presence of nickel, as well as other standard waste characterization parameters, to evaluate appropriate disposal options. Based on the characterization results, soils should be subsequently disposed off-site at an appropriately authorized waste management facility. Documentation of the soil characterization and off-site disposal will be maintained on-site.

3. DOCUMENTATION

3.1 Dig Permits

The EHS Manager will maintain copies of all dig permits for the plant. Permits will be maintained for a minimum duration of three years.

3.2 Soil Characterization Data

For those dig permits for which it is confirmed that the proposed activities will disturb soils within the SMA, soil characterization data shall be maintained on-file with the associated dig permit.

3.3 Soil Disposal Documentation

If testing indicates that nickel-affected (or otherwise impacted) soils will require off-site disposal, the facility will maintain records of the disposition of such soils, including waste profile forms, landfill approvals, and landfill tickets confirming receipt of soils.

01-40267B\PRIN_WP\44339v1

FIGURES

ATTACHMENTS

ATTACHMENT 1
DIG PERMIT

1	DIGGI	IG OR I	DRIL	LING PERM	IIT REQUISITION			
PERMIT NUMBER: (Requester supplies permit number and attaches permit.)				EQUIP / BLDG;	ROUTING			
					Mech Design:			
PROJECT TITLE:			Telephone Company Rep:					
REQUEST DATE:	REQUIRED DATE:		REOUESTED BY:	* Environmental Control	Lynzie Diehl			
RECOLUT DATE.				CLOCLSTED D1.	Dig Permit Planner	Lynzie Diehl		
IS SOIL DISTURBANCE REQUIRED? YES NO		ACCOUNT NO: (Authorized Projects charge directly to RFA.)		horized Projects charge	Electrical Utilities			
					Area Electrical			
				Requester				
				* Req'd for Any Soil Disturbance				
EXCAVATION DESCRIPTION (INCLUDE LOCATION - SEE BACK)								
REFERENCE DRAWINGS (POTENTIAL INTERFERENCES)								
EMBEDDED COND					UTILITY PIPING:			
PROCESS PIPING:				EQUIPME	EQUIPMENT GENERAL ARRANGEMENT:			
THIS SECTION TO BE COMPLETED BY ARCONIC ENVIRONMENTAL CONTROL								
THIS SECTION TO BE COMPLETED BY ARCONIC ENVIRONMENTAL CONTROL								

THIS SECTION TO BE COMPLETED BY ARCONIC ENVIRONMENTAL CONTROL					
Contaminants of Concern:					
Project within Unit Covered by SMP? (Y/N)					
Sampling Requirements::					
Onsite Soil Management Requirements					
Worker Exposure Control Plan Requirements:					
Disposal Plan.					

And Seek Help if Any of the Following Occur During the Project and Not Addressed in the Project Planning and Procedures

- Solvent or Unusual Odors
- Free Petroleum Product in the Soil or Water
- Visible or Unusual Soil Staining
- Tanks, Vaults or other like Structures

** CONSTRUCTION AND USE OF DRINKING WATER WELLS WITHIN THE PLANT'S BOUNDARY IS PROHIBITED. **

STOP