




UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

July 17, 2014

MEMORANDUM

SUBJECT: Region 6 Request for Concurrence on Proposed Nationally Significant or Precedent Setting Removal Action at the Canyon Largo Site, Pueblo of Acoma, Cibola County, New Mexico

FROM: Carl E. Edlund, P.E., Director
Superfund Division (6SF) 

TO: Reggie Cheatham, Acting Director
Office of Emergency Management

The purpose of this memorandum is to request your concurrence on the proposed removal action at the Canyon Largo Site, in Acomita, Pueblo of Acoma, Cibola County, New Mexico. Redelegation of Authority R-14-2 gives you the authority to concur on nationally significant or precedent-setting removals.

The Removal Section Chief has discussed this proposed removal with staff of the Office of Emergency Management's Preparedness and Response Operations Division (PROD). PROD has advised Region 6 that this removal is considered nationally significant or precedent-setting because it is located on tribal lands that involve excavation of soil from residential properties and radon abatement.

The Action Memorandum is attached for your review. My approval awaits your concurrence, which is requested by August 13, 2014.

Concur



Reggie Cheatham, Acting Director
Office of Emergency Management

8/20/14

Date

According to the redelegation, authority to non-concur remains with Assistant Administrator. If you choose not to concur on this action, please forward this memorandum to the Assistant Administrator.

Non-Concur

Mathy Stanislaus
Assistant Administrator for Solid Waste and Emergency Response

Date





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MEMORANDUM

SUBJECT: Request for a Time-Critical Removal Action, at the Canyon Largo Site, Pueblo of Acoma, near Cibola County, New Mexico

FROM: *for* Warren Zehner, On-Scene Coordinator Removal Team (6SF-PR) *WZehner*
for Jon Rinehart, On-Scene Coordinator Removal Team (6SF-PR) *JRinehart*

THRU: *for* Ronnie Crossland, Associate Director Prevention and Response Branch (6SF-P) *R Crossland*

TO: Carl Edlund P.E., Director Superfund Division (6SF)

I. PURPOSE

This memorandum requests approval for a time-critical removal action, pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9601 *et seq.*, at the 3 residential properties that compose the Canyon Largo Site (the "Site") located in the Village of Acomita, Pueblo of Acoma (POA) located near Cibola County, New Mexico. The proposed actions for this Site include the excavation, consolidation, and removal of radiologically contaminated soil/debris at 3 residential structures located on 3 residential properties within the boundaries of the aforementioned Village. In addition to the contaminated soil/debris removal, 1 of the 3 residences exceeded health-based levels for Radon-222 and will require the installation of abatement system in the affected home.

As described in Section III of this memorandum, the factors described in Section 300.415 of the National Contingency Plan (NCP), 40 CFR § 300.415, have been considered, and, based on those factors, a determination has been made that a removal action at the Site is appropriate. This Removal Action is not expected to exceed the statutory twelve-month time limit, nor is it expected to exceed the statutory \$2,000,000 cost ceiling.

II. SITE CONDITIONS AND BACKGROUND

CERCLIS ID: NMN000607526
 Category of Removal: Time Critical
 Site ID: A6HB
 Latitude: 34. 042734 degrees N
 Longitude: -107. 662532 degrees W

A. Site Description

1. Removal Site Evaluation

As part of the overall environmental assessment of the Grants Mineral Belt area of New Mexico, the Environmental Protection Agency, Region 6 Prevention and Response Branch (EPA PRB) received a verbal request for assistance in the evaluation of the POA for a potential removal action from the Acoma Environmental Protection Agency (AEPA) in November 2012. Documentation provided by the AEPA indicated that the Villages of Acomita, Sky City, and McCartys are in the vicinity of the Jackpile Mine (JM), which is an underground and open pit uranium mine. The villages were thought to be potentially contaminated with uranium mine waste originating from the mining operations that occurred on the JM when it was operational from 1952 - 1982. Based on this request for assistance, the Superfund Technical and Response Team (START) III contractors were tasked by EPA PRB to conduct a Radiation Removal Assessment on the Site. As part of this radiological assessment a quality assurance sampling plan (QASP) was developed for the project documenting standard operating procedures (SOPs), assessment protocols, and data decisions tree consistent with current EPA guidance and other best management practices. Based on the results of the Radiation Removal Assessment, the AEPA made a written request to the PRB for assistance in conducting a removal action on the affected residential properties in the Village of Acomita on June 2014 (*See Attachment 2*).

The elevated concentrations of several radio-isotopes and their associated progeny in various uranium mine waste streams are contaminants of concern on this Site primarily from gamma and other forms of ionizing radiation associated with these radio-isotopes. Uranium mine waste streams include, but are not limited to: overburden, sub-economic ore, and broken/replaced infrastructure/mechanical elements, and/or soil/debris that have become contaminated with radioactive waste materials ("waste materials"). Principally, contaminants of concern include radium-226 (^{226}Ra , hereafter to mean isotope and progeny) and radon-222 (^{222}Rn , hereafter to mean the isotope and progeny) primarily from the mining operations and/or subsequent mine closure operations conducted in the Laguna Sub-District of the Grants Mineral Belt. In addition to ^{226}Ra and ^{222}Rn contamination, uranium-238 (^{238}U , hereafter to mean, all the isotopes and their progeny) generated from the various uranium mining operations are also contaminants of concern. These radio-isotopes have been potentially dispersed by the aforementioned uranium mining operations in the Laguna Sub-District, including the JM during its previous operational history and by various anthropogenic means throughout the Site. The anthropogenic activities include, but are not limited to the utilization of waste materials in residential landscaping (rock borders, rock gardens, etc.), re-use of contaminated materials (i.e. salvaged piping used in a residential irrigation system) and re-use as construction materials on the residential properties (i.e. foundations). The elevated concentrations of radio-isotopes and associated radioactivity above normal background levels, expressed in counts per minute (CPM) and micro-roentgens per hour ($\mu\text{R/hr}$) present on the residential properties on this Site appear to be the direct result of the mining operations, and/or the utilization of waste materials generated during the uranium mining and/or milling operations conducted in the Laguna Sub-District of the

Grants Mineral Belt.

The fine and sandy/dusty texture of the contaminated soils on the Site makes it easy for these waste materials to adhere to humans and animals that come into direct contact with them. For humans and especially children, the wastes may be subsequently ingested during normal hand-to-mouth (or plaything-to-mouth) activity, or they may be inhaled. Moreover, the dry climate and sparse vegetative cover in these areas may cause the fine-grained waste materials to become wind-borne. Given the frequent dust storms taking place seasonally on the Site, the potential for exposure is greatly increased. These dust storms can also cause indoor contamination (the dust is so fine that it can blow through small cracks), increasing the likelihood that humans, and especially children, may be exposed. In addition, during the brief wet periods following precipitation events, contaminated mud may be tracked into residences and/or vehicles. When the mud dries and is disturbed during human activities, such as routine cleaning, the airborne fraction of the dust contributes to further inhalation exposure.

2. Physical Location

The Site is located within the geographic boundaries of the Village of Acomita, on the POA (*See* Attachment 3). This village is predominantly Native Americans in demographics. Geomorphologically, the Site is in semi-arid grassland with some mixed piñon-juniper stands on the south and west sides of the Village, grading into rocky outcrops near the Malpais on the north and east sides. Density of vegetative cover is variable across the Site, with the areas of rocky outcropping having the least amount of cover vegetation. The Site is composed of 3 residential structures located on 3 residential homesites within the boundaries of the Pueblo (*See* Attachment 4).

3. Site Characteristics

The EPA has completed investigating the extent of residential radiological contamination on this Site. Based on the Removal Assessment, it appears that the source of the radiological contamination on this Site is waste material salvaged from the historic uranium mining operations at the JM and/or the other uranium mines located within the Laguna Sub-District of the Grants Mineral Belt.

The Laguna Sub-District is a small sub-district of the Grants Mineral Belt located within the boundaries of the POA and the Cebolleta Spanish Land Grant in Cibola County, New Mexico. Based on the review of federal and State government regulatory records, there were three uranium mining operations and one uranium mill operating in the sub-district from the early 1950s until 2002, with most active operations ceasing in the 1980s (*See* Attachment 5). These mines and mill were the main source of employment in the area, with the Jackpile Mine being the single largest employer on the POA.

As part of the overall operations at the mines and mill in the Laguna Sub-District, the

mines maintained overburden and/or sub-economic ore waste piles and at least one waste/debris area for general infrastructure/ mechanical wastes. It appears based on several conversations with POA residents and former mine workers throughout the Removal Assessment study areas on the POA that "salvage" of the aforementioned waste piles and/or waste storage areas for residential re-utilization was common and if not approved by the mine operators, it was condoned. Reportedly, no warning signs or potential health impact information about the use of these waste materials were present in these waste areas during the operational history of the mines. Since the various uranium mines, including the JM, in the Laguna Sub-District were the largest employers in the POA for a significant number of years, a disproportionately large fraction of the adult residents of the POA villages had easy and ready access to the various aforementioned waste storage areas in the Laguna Sub-District. Several examples of residential re-utilization of radioactive waste materials were observed during the Removal Assessment on the Site, including but not limited to building materials, fill, landscaping (rock gardens), and souvenirs.

During the course of the Removal Assessment the EPA OSCs had discussions with numerous residents in the Villages of Acomita, McCartys, and Sky City (Old Acoma) regarding the residential re-utilization of various mine and mine operations wastes streams on their residences. Some residents freely admitted to the various source mines of the contaminated materials, others stated they had no knowledge of the source since it was brought to the residence by a parent or other relative.

As mentioned above, the EPA has completed the surface soil and structural (indoor) Removal Assessment on the Site. Surface radiological surveys were conducted on 94 residences utilizing a 2"x 2" gamma scintillation detector. Gamma radiation levels around and near the residences were as high as 34,862 CPM, as compared to the specific background of 11,794-13,453 CPM in Acomita (See Interim Status Report, Attachment 6).

4. Release or Threatened Release Into the Environment of a Hazardous Substance, Pollutant or Contaminant

One of the principal contaminants of concern on this site is ^{222}Rn , which has been detected in the residence of one property on the Site at levels up to 14 pico curies per liter (pCi/L) using the seven day samplers. In order to be consistent with the recommendations of the EPA Region 6, Regional Health Physicist /Radon Coordinator and the substantive requirements of *Protocols for Radon and Radon Decay Product Measurements in Homes* (EPA-402-R-02-003, May 1993), the more definitive 91 day samplers were placed in the 1 residence that exceeded the acceptable level on the seven day samplers. EPA has previously determined that the acceptable in-home exposure level for ^{222}Rn is $< 4\text{pCi/L}$ as per the 91 day samplers *EPA Assessment of Risks from Radon in Homes* (EPA 402-R-03-003, June 2003). The 91 day samplers recorded levels of ^{222}Rn above the 4pCi/L exposure level, with a maximum level of 7pCi/L at this Site.

Uranium-238 and ²²⁶Ra are also principal contaminants of concern on this Site based primarily on the gamma and other forms of ionizing radiation associated with these radioisotopes. Radiological dose is measured in milli-rem per year (mrem/year). The *Establishment of Cleanup Levels for CERCLA Sites with Radioactive Contamination*, August 22, 1997 (OSWER Directive 9200.4-18) established a general, maximum acceptable radiological dose level of 15 mrem/year above background level for non NRC licensed facilities. Further, this guidance document states that the total effective dose equivalent (TEDE) of 15 mrem/year represents an excess cancer risk of 3×10^{-4} , and is considered essentially equivalent to the CERCLA presumptively protective excess cancer risk level of 1×10^{-4} . The referenced risk calculation utilizes a 30-year exposure period per lifetime and a 24 hour/day exposure rate. The risk calculation is based upon a risk conversion factor of 7% cancer incidence per 100 rem of exposure and comes from the National Academy of Sciences report on *The Biological Effects of Ionizing Radiation (BEIR V)*, 1990. The *Protocol for Uranium Home Site Assessment, Grants Mineral Belt Uranium Project; Cibola and McKinley Counties, New Mexico, December 2009*, documents the regulatory consistency with EPA 1997, OSWER 9200.4-18 and the process used for conducting the radiological assessment on this property. The START III Certified Health Physicists (CHPs) have evaluated the radiological data from the Removal Assessment on the Site and have determined that the 3 residences on the Site have exceeded the acceptable TEDE of 15 mrem/year and the excess cancer risk level of 3×10^{-4} is exceeded by a similar factor.

As previously stated, the primary contaminants of concern at the Site, ²³⁸U and ²²⁶Ra and their associated progeny, including ²²²Rn are hazardous substances as defined in Section 101(14) of CERCLA, 42 U.S.C. § 9601(14) and 40 CFR § 302.4. The following are the known health effects associated with exposure to the aforementioned hazardous substances on the Site.

Radon-222

Radon-222 is a colorless and odorless noble gas that is produced in the decay chains of Uranium and Thorium. Radium-226 is the parent of ²²²Rn. According to the Agency for Toxic Substance and Disease Registry (ATSDR) *ToxFaqs for Radon* (September 2008) document, ²²²Rn is recognized by the EPA and the Department of Health and Human Services (DHHS) as a human carcinogen. The primary target organ for ²²²Rn and its alpha ionizing radiation producing progeny are the lungs. Several health organizations have indicated that prolonged exposure to high levels (>4 pCi/L) of ²²²Rn is the second leading cause of lung cancer in the United States, behind only smoking.

Exposure pathways are the routes that a contaminant can take in order to be assimilated by a human or animal. For example, the inhalation of gases, vapors or contaminated airborne particles (dust) or the incidental ingestion of contaminated soils through direct contact are both exposure pathways. The exposure pathways of concern at the Site for ²²²Rn are described below:

Inhalation is the primary exposure pathway for this Site for ²²²Rn and associated alpha ionizing radiation producing progeny. As discussed above a significant amount of ²²²Rn is

present in 1 of the 3 residences on this Site. Inhalation exposure is not limited to only the gaseous phase of ^{222}Rn the alpha emitting progeny readily attach to fine surface soils and related fine particulate matter (dust). Since this Site is in a semi-arid environment and the contaminated soils tend to be fine grained and dusty, they are easily airborne after wind or mechanical disturbance and subject to inhalation by humans or livestock.

Radium-226

Radium-226 is principally a source of alpha and gamma radiation, although some beta radiation is also produced during the decay process. According to the ATSDR *ToxFAQs for Radium* (July 1999) document, exposure to ^{226}Ra can cause adverse effects to the eyes (cataracts) and blood (anemia). Radium-226 has been identified by the EPA and the National Academy of Sciences as a known human carcinogen, being specifically linked to cancers of the bone and breast, and also leukemia.

The exposure pathways of concern for Radium-226 at this Site are described below:

- The predominant exposure pathway related to ^{226}Ra was determined to be external gamma radiation, contributing over 90% of the total effective dose equivalent (TEDE) in the ResRad modeled scenario with ^{222}Rn removed.
- A significant amount of the surface area of the residences on this Site is contaminated with elevated concentrations of ^{226}Ra at or near the surface. The contaminated soils are fine grained and have a high probability of adherence to skin, clothing and fur as a result of direct contact. For humans, incidental ingestion of the contaminants adhering to skin or clothing can occur through normal hand-to-mouth activities such as play or mealtime.
- Inhalation is another exposure pathway at this Site. As discussed above a significant amount of the surface soils on this Site are contaminated with ^{226}Ra . The contaminated soils tend to be fine grained and dusty, are easily airborne after wind or mechanical disturbances, and subject to inhalation by humans or livestock. Inhalation and ingestion combined for a total of approximately 5% of the TEDE estimate in the ResRad modeled scenario for this Site.

Uranium

Uranium is a widespread mineral forming heavy metal that in nature is composed of three isotopes, ^{238}U , ^{235}U , and ^{234}U , with the ^{238}U isotope generally composing over 98% of the mixture. All of these isotopes are the same chemically, but they have different energy and decay properties. According to the ATSDR *ToxFAQs for Uranium* (October 1999) document, U is an alpha ionizing radiation emitter and in general, weakly radioactive. Exposure to excess levels of U can cause human tissue damage, primarily in the kidneys. Cancer risk from exposure to excess U levels appears to be low to none. The primary risk on this Site from U is cancer caused

by exposure to the progeny generated by its decay.

5. NPL Status

This Site is not presently on the NPL. However, should the Site rank on the NPL, the current removal action will be consistent with any subsequent remedial activities that might be taken due to the fact that the proposed actions constitute source control measures.

6. Maps, Pictures and Other Graphic Presentations

Attachment 1 - Enforcement Addendum (Enforcement Confidential/FOIA Exempt)

Attachment 2 - AEPA Removal Action Assistance Letter

Attachment 3 - Site Location Map

Attachment 4 - Site Sketch

Attachment 5 - Laguna Sub-District Historic Mine Locations

Attachment 6 - Interim Status Report, Canyon Largo Structural Removal Assessment, May, 2014

B. Other Actions to Date

1. Previous Actions

No previous response actions have occurred on this Site to date.

2. Current Actions

Based on the Removal Assessment data and the health based dose calculations utilizing the ResRad model and a ration of dose to excess cancer risk assumed at the TEDE of 15 mrem/year level per risk of 3×10^{-4} discussed above, in Section II.A.4, the EPA has determined that current conditions on this Site pose an unacceptable health risk to the residents residing on the specific properties found within the Site.

C. Tribal and Local Authorities' Roles

1. Tribal and Local Actions to Date

EPA has coordinated all Removal Assessment activities in the POA with AEPA. After completion of this action memorandum, this site will be referred back to the Pueblo for any operations and maintenance.

2. Potential for Continued Tribal/Local Response

The POA will not be able to provide a response action to physically address the actions described in this memorandum.

III. THREAT TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT

A. Threats to Public Health

The factors described in Section 300.415 of the National Contingency Plan (NCP), 40 CFR § 300.415, have been considered, and, based on those factors, a determination has been made that a removal action is appropriate to address the hazardous substances present in the contaminated wastes at the Site. Any or all of these factors may be present at a site yet any one of these factors may determine the appropriateness of a removal action.

1. Actual or Potential Exposure to Nearby Human Populations, Animals, or the Food Chain from Hazardous Substances or Pollutants or Contaminants. 40 CFR § 300.415(b)(2)(i).

As discussed above, in Section II.A.3-4, the Removal Assessment identified levels of ionizing gamma radiation in the soils/debris surrounding or in close proximity to the 3 residential structures and excess levels of ²²²Rn in 1 of the 3 residences on the Site in excess of the referenced EPA acceptable exposure, dose and/or risk limits.

2. High Levels of Hazardous Substances or Pollutants or Contaminants in Soils Largely at or Near the Surface That May Migrate. 40 CFR § 300.415(b)(2)(iv).

As discussed above, and in the results of the Interim Status Report, Canyon Largo Structural Removal Assessment (*see* Attachment 5) indicates high levels of radiological contamination in the surface and near surface soils (< 12 inches) on a small portion of the residential properties composing this Site.

3. Weather Conditions that May Cause Hazardous Substances or Pollutants or Contaminants to Migrate or Be Released. 40 CFR § 300.415(b)(2)(v).

As referenced above, the Site is located on the Pueblo of Acoma which routinely experiences severe weather of varying degrees of intensity during the Spring and Summer. Given that the referenced radiological contamination is located at or near the surface of the Site, and because the Site is located in a semi-arid area, with limited vegetative cover, there is a high potential for off-site migration of hazardous substances in surface soils from the Site via the flash flooding rains in the Summer and/or strong wind storms that are associated with strong low pressure systems in the Spring.

4. The Availability of Other Appropriate Federal or State Response Mechanisms to Respond to the Release. 40 CFR § 300.415 (b)(2)(vii).

At this time, there are no other mechanisms available to conduct the actions described in

this memorandum in a timely manner so as to effectively reduce the imminent and substantial endangerment to public health posed by the hazardous substances located on the Site. The Tribal officials do not have the resources available to address the current dangerous conditions at the Site. If other mechanisms become available during the conduct of this response action, the EPA will evaluate those mechanisms as appropriate.

B. Threats to the Environment

The actions taken during this response are designed solely to address a public health threat resulting from the hazardous substances present on the Site derived from waste materials that appear to have originated from the historic uranium mining in the Laguna Sub-District of the Grants Mineral Belt.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances, pollutants or contaminants from the Site, if not addressed by implementing the response action selected in this Action Memorandum, will continue to present an imminent and substantial endangerment to public health or welfare or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Action Description

a. Action Levels and Clean-up Levels

The EPA uses the term "action level" to mean the contaminant concentration level in soil or groundwater at which a response action in question will be taken. Wastes that meet the definition of a hazardous waste under the Resource Conservation and Recovery Act (RCRA) statute not found in a soil or groundwater matrix (such as drummed wastes found on a site) are usually not subject to a specific action level. They are simply removed to prevent actual or potential exposures. Action levels should not be confused with "cleanup levels." The cleanup level is the contaminant concentration level which the response action is designed to meet. That is, once EPA has identified a contaminated medium which contains concentrations of a contaminant which exceed the action level, the removal action calls for continued response until the concentration of the contaminant in the contaminated medium are below the established cleanup level.

For this removal action, both the action level and cleanup level is 3.5 pCi/gram of

Radium-226 in the contaminated waste materials and soils. This concentration value is the equivalent of a 3×10^{-4} excess cancer rate as calculated by the aforementioned ResRad model and EPA's PRG calculator using site specific data where possible. Further, this concentration value is also the equivalent of a 15 mrem/yr dose rate for ionizing gamma radiation generated from the decay of the aforementioned radioisotopes and their associated daughter progeny in the contaminated re-purposed materials and soils.

In developing the action levels and cleanup levels for the Site, EPA Region 6 considered the *Establishment of Cleanup Levels for CERCLA Sites with Radioactive Contamination*, August 22, 1997 (OSWER Directive 9200.4-18), EPA Region 9 Navajo Nation Radiological Structure Assessment data and procedures, and consulted with NMED to determine whether there were potential state Applicable or Relevant and Appropriate Requirements (ARARs) within the meaning of CERCLA Section 121, 42 U.S.C. § 9621. After the action levels and cleanup levels for this Site were reviewed and found to be consistent with historic action levels and cleanup levels used by the EPA on similar sites, the OSC decided to utilize the aforementioned ionizing radiation concentration of 3.5 pCi/g of Radium-226 and the equivalent dose rate as the action level and cleanup level for the radiological contamination on this Site.

b. Canyon Largo Site

The EPA proposes to mitigate the imminent and substantial threats to human health, welfare, or the environment by taking steps to prevent the release of radium-226, uranium and external ionizing radiation from the sources on this Site. The removal action will include the following objectives to prevent direct human contact and excessive ionizing radiation exposure from the contaminated soils/debris and contaminated re-purposed materials present on the Site:

- Remove the identified surficial residential radiological soil contamination (approximately 9 cubic yards) from the Site by excavating to a level below the cleanup level.
- Consolidate, transport and dispose of the radiologically contaminated soil, debris, and any other contaminated materials into an approved off-site facility.
- Replace excavated soils with clean fill and restore to pre-removal grade.
- Conduct confirmation radiological scanning, sampling, and analysis to ensure that the ionizing radiation exposure is below established EPA cleanup levels.
- Install ^{222}Rn abatement system at the 1 residence that exceeded the established acceptable level for ^{222}Rn .
- Conduct confirmatory ^{222}Rn sampling to verify that the abatement system has reduced the ^{222}Rn levels to the acceptable exposure levels.

c. Certain Contaminated Materials Will Be Taken Off-site

The contaminated soils excavated during the removal action will be consolidated with the contaminated materials and taken off-site for disposal. The contamination found at the Site and

discussed in this memorandum stems from waste material salvaged from the historic mining operations conducted within the Laguna Sub-District. The contaminated wastes described above are a solid waste, but not a hazardous waste under the Resource Conservation and Recovery Act (RCRA), because they are derived from the extraction, beneficiation, and processing of ores and minerals within the meaning of 40 CFR § 261.4 (b)(7). Since the aforementioned materials are not a hazardous waste under RCRA, EPA does not consider the RCRA hazardous waste management requirements to be applicable or relevant and appropriate (See Section V 4(c) below). Although these wastes are not considered hazardous wastes under RCRA regulations, they are determined to be CERCLA hazardous substances.

The off-site disposal of the CERCLA wastes generated from this removal will be in conformance with EPA's procedures for planning and implementing off-site response action, 40 CFR § 300.440. All off-site transportation of hazardous waste will be performed in conformance with applicable U.S. Department of Transportation (USDOT) requirements. Other requirements under the Occupational Safety and Health Act (OSHA) of 1970, 29 U.S.C. § 651 *et seq.*, and under the laws of States with plans approved under section 18 of the State's OSHA laws, as well as other applicable safety and health requirements, will be followed. Federal OSHA requirements include, among other things, Hazardous Materials Operation, 29 CFR Part 1910.120, as amended by 54 Fed. Reg. 9317 (March 5, 1989), all OSHA General Industry (29 CFR Part 1910) and Construction (29 CFR Part 1926) standards wherever they are relevant, as well as OSHA recordkeeping and reporting regulations. Other EPA policies/guidelines relating to the conduct of work at Superfund sites will also apply.

2. Contribution to Remedial Performance

The actions described above for the Site will contribute to any presumed remedial cleanup alternative given that the response actions to be taken will constitute contaminant source removal.

3. Description of Alternative Technologies

At this time, there are no other proven alternative technologies that could be feasibly applied at this Site. The appropriate action is to conduct the removal action on the Site as described in this memorandum. If an equally protective and less expensive technology is later identified, it may be considered.

4. Applicable or Relevant and Appropriate Requirements (ARARs)

The proposed removal action will be conducted to eliminate the actual or potential exposure to hazardous substances pursuant to CERCLA, in a manner not inconsistent with the NCP. As per 40 CFR Section 300.415(j), Superfund-financed removal actions under CERCLA § 104 and § 106 shall, to the extent practicable considering the exigencies of the situation, attain the applicable or relevant and appropriate requirements (ARARs) under Federal environmental law.

a. Chemical-specific ARARs - There were no chemical-specific Federal or State ARARs identified that were applicable or relevant and appropriate to this removal action.

b. Location-specific ARARs - All proposed activities at the Site are compliant with any location-specific ARARs including the requirements of, the National Historic Preservation Act, 16 USC Section 470 *et seq.* and its implementing regulations found at 36 CFR Part 800; Native American Graves Protection and Repatriation Act, 25 USC Section 3001 *et seq.* and its implementing regulations, 43 CFR Part 10; Archeological Resources Protection Act of 1979, 16 USC Section 470aa-470mm *et seq.* and its implementing regulations, 43 CFR Part 7; and the American Indian Religious Freedom Act, 42 USC Section 1996 *et seq.*

c. Action-specific ARARs - The uranium, radium-226 and related daughter progeny contamination in the demolition materials and related soil/debris is from the mining of uranium which is a solid waste, but not a hazardous waste under the Resource Conservation and Recovery Act (RCRA), because it is solid waste from the extraction, beneficiation, and processing of ores and minerals within the meaning of 40 CFR § 261.4(b)(7). Since the materials are not a hazardous waste under RCRA, EPA does not consider RCRA hazardous waste management requirements to be applicable or relevant and appropriate, including without limitation the waste analysis requirements found at 40 CFR §§ 261.20 and 261.30, the RCRA manifesting requirements found at 40 CFR § 262.20 and the RCRA packaging and labeling requirements found at 40 CFR § 262.30. Since the removal action involves no on-site storage of hazardous wastes, storage requirements found at 40 CFR Part 265 are not applicable or relevant and appropriate.

Although the hazardous substances which are the subject of this removal action are solid waste and not hazardous waste under RCRA because they are solid waste from the extraction, beneficiation, and processing of ores and minerals, according to 40 CFR § 261.4(b)(7), it is useful in this Site-specific situation for EPA to use certain RCRA requirements to control and track waste sent off-site. Accordingly, RCRA waste analysis requirements found at 40 CFR §§ 261.20 and 261.30, RCRA manifesting requirements found at 40 CFR § 262.20, and RCRA packaging and labeling requirements found at 40 CFR § 262.30 are not deemed to be relevant and appropriate requirements, but will be used for off-site disposal of wastes and other contaminated material generated during this removal action. Because on-site storage of repackaged hazardous wastes is not expected to exceed ninety (90) days, specific storage requirements found at 40 CFR Part 265 are neither applicable nor relevant and appropriate. See 40 CFR § 262.34.

d. To-be-considered (TBCs) - In addition to ARARs, other advisories, criteria, or guidance that may be useful in developing the remedy were, as appropriate, identified and considered. An action that was considered was to leave the radiation

Extramural Costs

Removal Contractors.....	\$ 175,322
START III Contractors.....	\$ 80,000
Subtotal, Extramural Costs.....	\$ 255,322
Extramural Costs Contingency.....	
(20%).....	\$ 51,064
TOTAL, EXTRAMURAL COSTS.....	\$ 306,386

VI. EXPECTED CHANGE IN THE SITUATION SHOULD NO ACTION BE TAKEN OR ACTION BE DELAYED

Should the actions described in this Action Memorandum be delayed or not taken, the elevated gamma radiation dose/excess cancer risk from the Uranium, Radium-226, associated daughter products, and Radon-222 will continue to pose a significant threat to the residents located in the 3 homes associated with this Site.

VII. OUTSTANDING POLICY ISSUES

There are no outstanding policy issues associated with this removal action.

VIII. ENFORCEMENT

EPA Region 6 has initiated the enforcement process on this Site. (See Enforcement Confidential Attachment #1, for additional details). The total cost to EPA for this removal action, consisting of the excavation and disposal of the contaminated soil/debris and installation of a radon abatement system is **\$428,349**.

(Direct Cost) + (Other Direct) + (42.63% of Total Direct {Indirect Cost}) =
Estimated EPA Cost for a Removal Action

$\$255,322 + \$45,000 + (42.63\% \times \$300,322) = \$428,349.$

Direct costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2002. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action.

IX. RECOMMENDATION

This decision document represents the selected removal action for the Canyon Largo Site (CERCLA), 42 U.S.C. § 9601 *et seq.*, and is not inconsistent with the National Contingency Plan (NCP), 40 CFR Part 300. This decision is based on the administrative record for the Site.

Conditions at the Site meet the NCP Section 300.415 (b) (2), 40 CFR § 300.415 (b)(2) criteria for a time-critical removal action. We recommend your approval of the proposed time-critical removal action request. The total estimated EPA cost for the removal is \$428,349. Of this, an estimated \$175,322 comes from regional funds.

APPROVED: _____

Carl Edlund Acting
Carl Edlund, Director
Superfund Division

DATE: _____

8/22/14

U.S. Environmental Protection Agency, Region 6

Fred S. Vallo, Sr., Governor
Robert MoQuino, 1st Lt. Governor
Lloyd D. Tortalita, 2nd Lt. Governor
Gilbert Louis, Jr., Tribal Secretary
Ray Dean Ortiz, Tribal Interpreter



25 Pinsbaari Drive
P. O. Box 309
Acoma, NM 87034
Telephone: (505)552-6604
Fax: (505)552-7204

PUEBLO OF ACOMA
OFFICE OF THE GOVERNOR

June 30, 2014

Mr. Jon Rinehart
On-Scene Coordinator (OSC)
U.S. EPA Region 6
1445 Ross Avenue
Dallas, TX 75202

RE: Letter of Support to Conduct Radiation Removal Action

Dear Mr. Rinehart:

The Pueblo of Acoma (POA) is pleased to endorse the U.S. Environmental Protection Agency (USEPA) Region 6 Prevention and Response Branch to conduct removal action on traditional homes within the Pueblo's exterior boundaries. We recognize the adverse effects radiation and radon have on individuals and families. To insure that our community members and property are protected, we realize the need to identify and remove items that were exposed to radiation which may have been accumulated in homes and property by former uranium mine workers.

The Pueblo of Acoma fully supports the U.S. EPA to conduct and implement removal action on traditional homes and property of tribal members who volunteer to have such assessments conducted on their homes and property in order to reduce, mitigate, and remove potential risks from radiation and radon.

The Pueblo of Acoma Environmental Department will provide a point of contact and community relations support for the coordination and facilitation of the U.S. EPA Region 6 radiation assessments conducted on the Pueblo of Acoma.

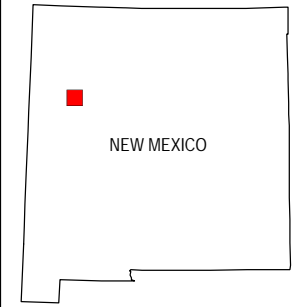
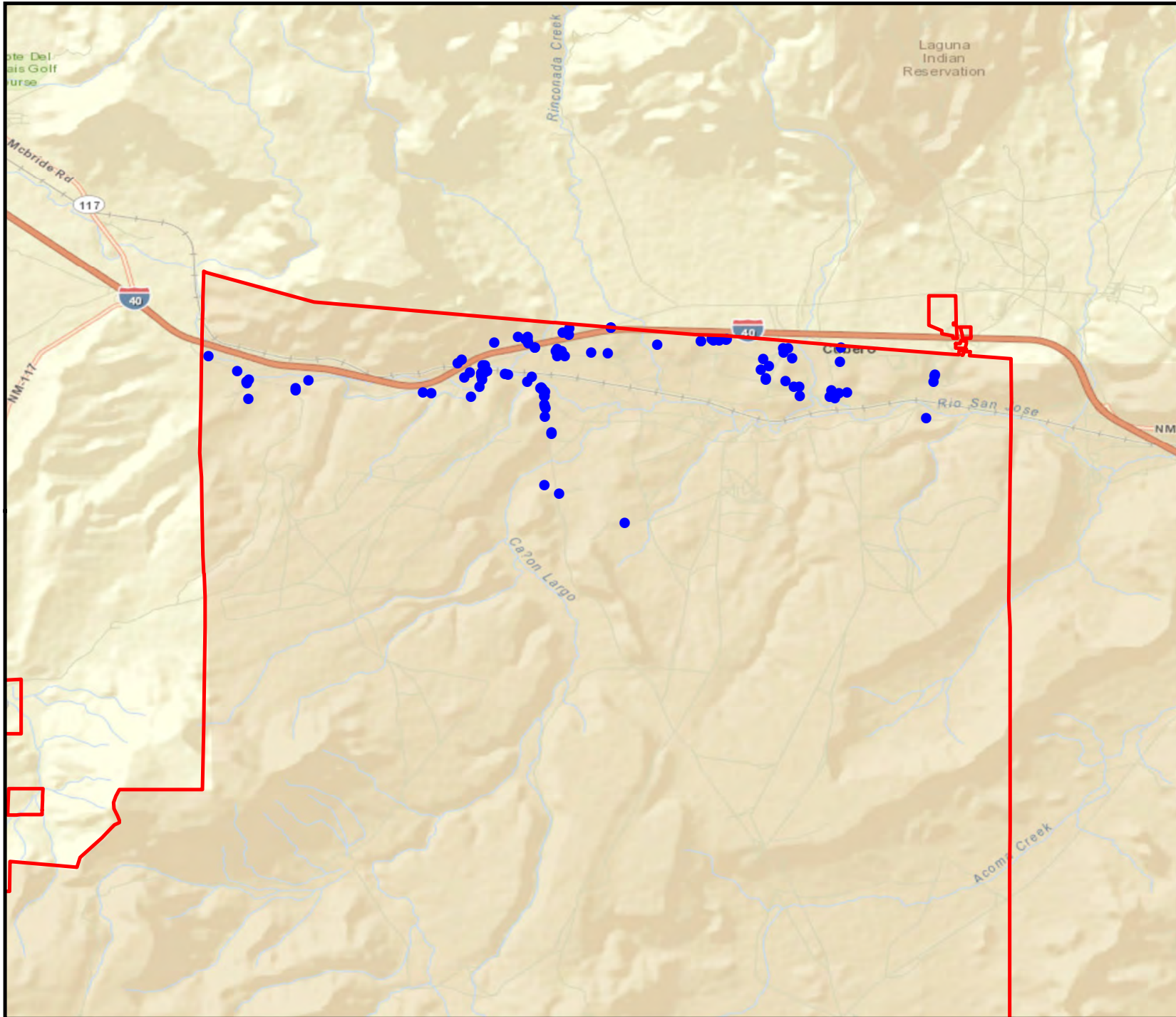
For question or concerns, please contact Sophi Beym, Acting Environment Director at (505) 552-5166 or by email at sbeym@puebloofacoma.org.

Sincerely,

PUEBLO OF ACOMA

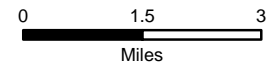
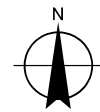
Fred S. Vallo, Sr.
Governor

cc: GAP File



LEGEND

- Acoma Reservation Boundary
- Property Locations



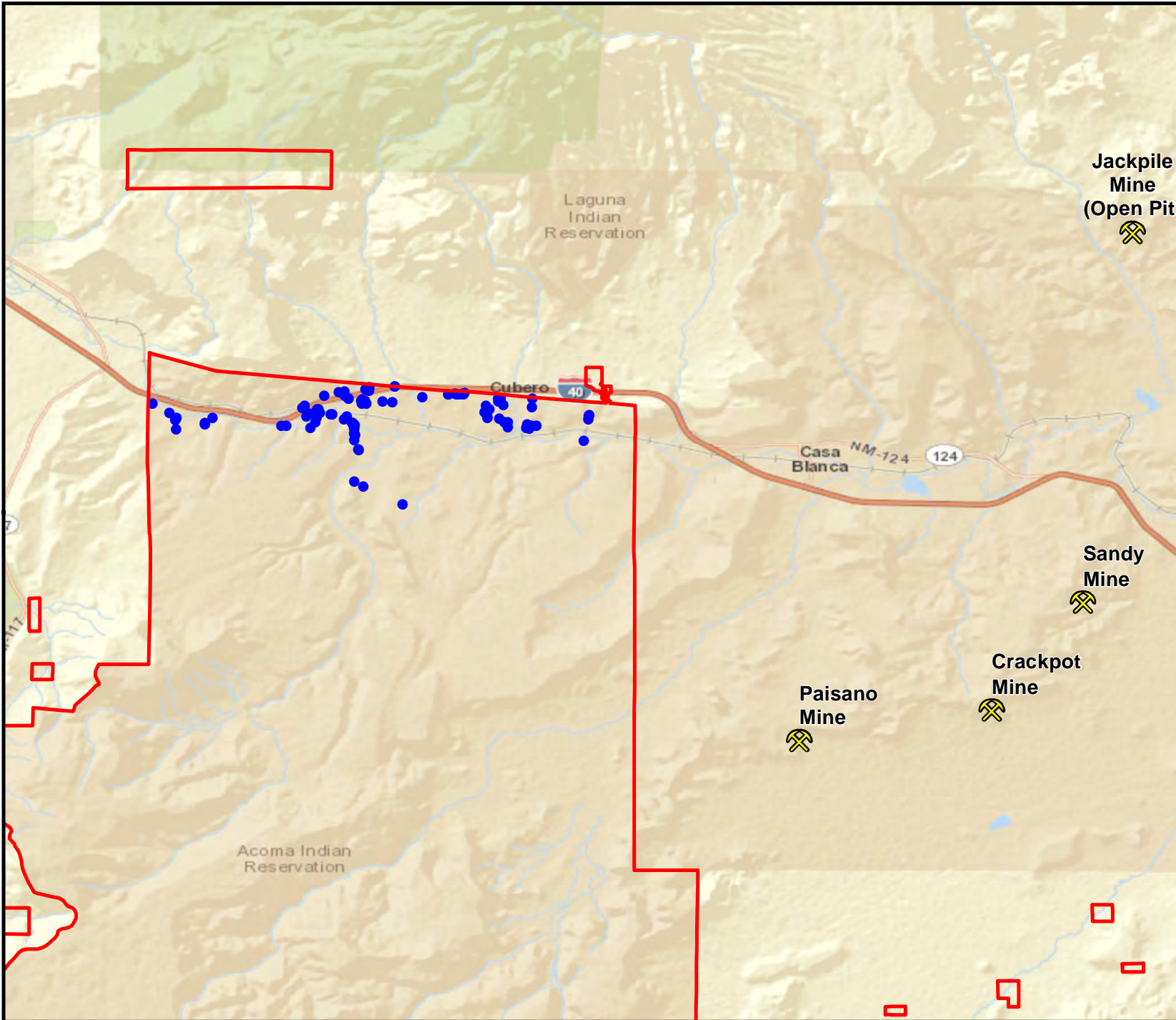
TDD NO: 1/WESTON-042-13-015
 CERCLIS: NMN000607526
 SOURCE: ESRI World Imagery



US EPA REGION 6

FIGURE 2-1
 SITE LOCATION MAP
 CANYON LARGO ASSESSMENT
 ACOMA PUEBLO
 CIBOLA COUNTY,
 NEW MEXICO

DATE APR 2014	PROJECT NO 20406.012.001.0814.01	SCALE AS SHOWN
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NEW MEXICO

LEGEND

- Property Locations (92)
- Uranium Mines
- Acoma Reservation Boundary

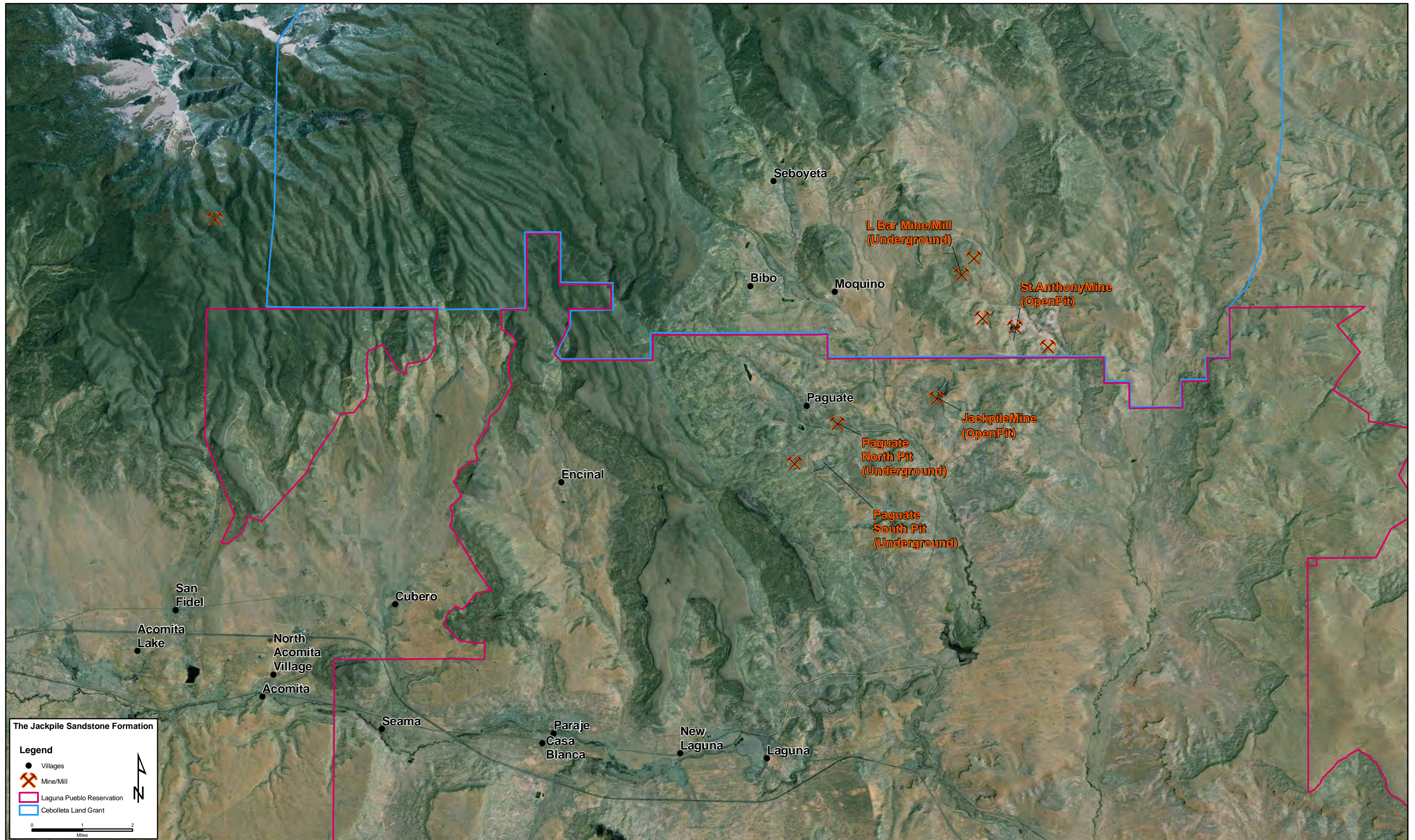
0 2.5 5
Miles

TDD NO: 1/WESTON-042-13-015
 CERCLIS: NMN000607526
 SOURCE: ESRI World Imagery

US EPA REGION 6

FIGURE 2-2
 SITE AREA MAP
 CANYON LARGO ASSESSMENT
 ACOMA PUEBLO
 CIBOLA COUNTY,
 NEW MEXICO

DATE APR 2014	PROJECT NO 20406.012.001.0814.01	SCALE AS SHOWN
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INTERIM STATUS REMOVAL ASSESSMENT REPORT

FOR

**CANYON LARGO ASSESSMENT
MULTIPLE PROPERTIES
ACOMA PUEBLO, CIBOLA COUNTY, NEW MEXICO**

Prepared for

U.S. Environmental Protection Agency
Will LaBombard, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
Technical Direction Document No. 1/WESTON-042-13-015
TDD No. TO-0001-42-13-15
WESTON W.O. No. 20406.012.001.0814.01
NRC No. N/A
FPN N/A
CERCLIS ID: NMN000607526
EPA OSC Jon Rinehart
START-3 PTL Robert Sherman

Submitted by

Weston Solutions, Inc.
Cecilia H. Shappee, P.E., Program Manager
5599 San Felipe, Suite 700
Houston, Texas 77056
(713) 985-6600

May 2014

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Appendix B	AccuStar Analytical Data Packages
Appendix C	TDD No. 1/Weston-042-13-015

1. INTRODUCTION

Weston Solutions, Inc. (WESTON®), the Superfund Technical Assessment and Response Team (START-3) contractor (EPA team), was tasked by the U.S. Environmental Protection Agency (EPA) Region 6 Prevention and Response Branch (PRB) under Contract Number EP-W-06-042, Technical Direction Document (TDD) No. 1/WESTON-042-13-015 (Appendix C) to conduct removal assessments and to provide technical support at the Canyon Largo assessment site, located on the Acoma Pueblo in Cibola County, New Mexico. The activities conducted under this TDD are associated with residential properties located on the Pueblo, located approximately 16 miles east of Grants, New Mexico. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Identification Number assigned to the site is NMN000607526. The EPA team developed a protocol document and a Quality Assurance Sampling Plan (QASP) for assessment and removal activities in the Grants Mineral Belt. As part of this tasking, a QASP and a Health and Safety Plan (HASP) with site-specific addenda were prepared and approved by the EPA On-scene Coordinator (OSC) prior to site mobilization.

2. SITE DESCRIPTION

The Canyon Largo site consists of 92 residential properties located in and on the outskirts of seven villages on the Acoma Pueblo in a rural part of Cibola County, New Mexico, approximately 16 miles east of the City of Grants and centered approximately 4 miles south of Interstate 40, exit 100 on Indian Service Route 30. The seven villages are Anzac, Acomita Lake, McCartys, North Acomita, Shutivaville, Skyline-Ganipa, and South Acomita. A site location map is provided as Figure 2-1, and a site area map is provided as Figure 2-2.

This removal assessment focused on the dwellings and the surrounding yards up to an area of 1 acre. Acoma Pueblo houses were traditionally constructed with locally-obtained stone, using local soils and sands as components for mortar and stucco. Some residents may have used the overburden rock piles from uranium mines as a source of building materials for new houses or to repair old houses. These rocks, as well as timbers and scrap metal from the mines that were possibly used in house construction, may have contained radioactive materials. Additionally, radioactive materials from the mines and/or uranium mills may have been brought onto

residential properties for backfill, leveling, landscaping, or souvenir displays, or may have accumulated through aerial dust deposition given the prevailing dry climate, sparse vegetative cover, and frequent seasonal dust storms of the area. Several uranium mines are present near the Acoma Pueblo, including Jackpile mine and numerous smaller mines to the northeast and the Paisano, Crackpot, and Sandy mines to the east. No uranium mining was conducted on the Acoma Pueblo, but many residents worked in the mines.

3. SUMMARY OF ACTIONS

3.1 BACKGROUND ASSESSMENT

In July 2013, four background areas were selected by a Certified Health Physicist (CHP) for assessment and comparison to individual property results (Figure 2-2). The background assessment took place in areas approximately 150 feet by 200 feet and included the following activities:

- Collection of 20 stationary, 1-minute, gamma measurements uniformly spaced at 50-foot intervals throughout the assessment area utilizing a Ludlum Model 44-10 2"x2" Sodium Iodide probe attached to a Ludlum Model 2210 count-meter (NaI probe), a laptop computer, and a global positioning system (GPS) (together referred to as the [Rapid Assessment Tool] RAT system) all mounted in a modified baby buggy.

The Ludlum Model 2210 count-meter was operated in 'scaler' mode that precluded electronic capture of the measurements; results were therefore recorded by hand on standardized results sheets and transferred to residential property-specific Excel spreadsheets.

- Collection of 20 grab, surface soil samples for laboratory analysis of radium-226 (Ra-226).
- Collection of 20 stationary, 5-minute, gamma exposure measurements, utilizing a Reuter Stokes Model RSS-131 Pressurized Ion Chamber (PIC). The start and end times of PIC measurements were documented on individual background-property PIC timesheets. The gamma exposure measurements were transferred to residential property-specific Excel spreadsheets.

The soil samples were submitted to Eberline Services in Oakridge, Tennessee, for gamma spectroscopic analysis. Although the gamma spectroscopic analysis provided data for many isotopes, the site-specific action levels were focused on the uranium-238 decay chain and specifically Ra-226. Samples were held at the analytical laboratory for a "grow-in" period of a

minimum of 21 days, after which Ra-226 was assumed to be in equilibrium with bismuth-214. All Ra-226 results were reported as equivalent to bismuth-214 results. The Eberline Services laboratory data packages for the background are provided in Appendix A.

The residential property-specific Excel spreadsheets can be found in Response Manager, the Enterprise Data Collection System designed to provide near real-time access to non-analytical data normally collected in logbooks. Response Manager provides a standard data collection interface for modules of data collected by field personnel while on-site.

The average of the 20 stationary, 1-minute, gamma measurements; the average Ra-226 concentration of the 20 grab, surface soil samples; and the average of the 20 stationary, 5-minute gamma exposure measurements at the four Canyon Largo background locations were as follows:

Anzac

- 8,767 counts per minute (cpm)
- 0.60 picoCuries per gram (pCi/g)
- 13.3 microRoentgens per hour ($\mu\text{R/hr}$), respectively

McCartys

- 12,313 cpm
- 1.44 pCi/g
- 15.7 $\mu\text{R/hr}$, respectively

Skyline-Ganipa

- 8,146 cpm
- 0.15 pCi/g
- 12.6 $\mu\text{R/hr}$, respectively

Shutivaville

- 9,805 cpm
- 0.95 pCi/g)
- 14.0, respectively

The Canyon Largo removal assessment uses a Derived Concentration Guideline Level (DCGL) of 2.5 pCi/g (and its screening-level equivalent of 3,648 cpm) and the indoor screening level of 2.5 μ R/hr calculated for the Grants Mineral Belt projects.

3.2 PHASE 1 OUTDOOR ASSESSMENT

EPA conducted Phase 1 Outdoor Assessments at 92 residential properties beginning 27 August 2013. One additional assessment remains to be conducted at the time of this report. Phase 1 Outdoor Assessment activities conducted at each property included the following:

- Attainment of a signed access agreement from each property owner prior to initiation of an assessment.
- Attainment of a residential data sheet detailing residents' work relationships with local uranium mines and mills; structural elements of residences and other buildings; the possible use of mine and mill-originated materials for property fencing, landscaping, and/or souvenir displays in the home or landscape; consumption of home-grown produce; and the number of residents, pets, and livestock.
- Performance of a walking, gamma scan (2 to 3 feet per second; 15 inches above ground surface) of residential soils utilizing the RAT system mounted in a modified baby buggy. Only those parts of yards that were used by residents on a regular basis, up to a maximum 40,000-square-foot area, were assessed. Transects were separated by no more than 40 inches to provide maximum coverage of the surface soil within the assessment boundaries. Debris, vegetation, structures, or other objects were not moved; the survey was conducted around such obstacles. Individual property sketch sheets were utilized to document the layout of structure(s) and other obstacles.

Gamma scan data was transferred from the RAT system to property-specific Excel spreadsheets. Utilizing Geographic Information System (GIS) software, the GPS coordinates of each gamma scan measurement were plotted, color-coded by ranges relative to the screening level (3,648 cpm) plus background, to generate property-specific RAT maps. Similarly, GIS was utilized to generate property-specific maps illustrating the z-scores (number of standard deviations away from the property's mean) of each measurement (z-score maps).

- Collection of 20 stationary, 1-minute, gamma measurements uniformly spaced throughout the assessment area utilizing the RAT system. The NaI probe was operated in 'scaler' mode that precluded the electronic capture of the measurements; results were therefore recorded by hand on standardized results sheets and transferred to the property-specific spreadsheet.
- Collection of grab, 'hot spot,' surface soil samples for laboratory analysis of Ra-226 where gamma scan readings exceeded the screening-level of 3,648 cpm, along with

associated GPS coordinates.

- Collection of stationary, 1-minute, gamma measurements at the 'hot spot' surface soil sample locations utilizing the RAT system (again, results were recorded by hand on standardized results sheets and transferred to the property-specific spreadsheet).
- Performance of photo-documentation of general property features and sample/measurement locations.

The results of each assessed property were subjected to as many as four statistical tests, in accordance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) guidelines, to determine if a property's average gamma measurements exceeded the screening level of 3,648 cpm above background. The statistical tests, numbered MARSSIM Tests 1-4, were calculated in the property-specific Excel spreadsheets. The four statistical tests used to evaluate the Phase I data are described below:

- MARSSIM Test 1 compared the stationary, 1-minute gamma measurement from the applicable background location with the lowest value and the highest property gamma scan reading. If the difference was less than 3,648 cpm, the property passed (the property average was determined to be less than the DCGL plus background [gross DCGL]) and MARSSIM Tests 2-4 were not performed. If the difference was greater than the gross DCGL, Test 2 was conducted.
- MARSSIM Test 2 compared the differences between the property gamma scan average and the background average and the property's 20 stationary, 1-minute, gamma-measurements average and the background average. If both differences were less than 3,648 cpm, MARSSIM Test 3 was conducted. If either difference was greater than the DCGL, the property failed (the property average was determined to be greater than the gross DCGL) and Tests 3-4 were not performed.
- MARSSIM Test 3 was an application of the Wilcoxon Rank Sum (WRS) test. The WRS test compared the 20 stationary 1-minute readings of the assessed property to the similar set of applicable background measurements. The test was performed by adding 3,648 cpm to each background measurement and then ranking the combined set of property and adjusted background data in increasing numerical order. If the ranks of the adjusted background measurements were statistically higher than the ranks of the survey unit measurements, the property passed and MARSSIM Test 4 was conducted if necessary. If Test 3 failed (the property average was determined to be greater than the gross DCGL), MARSSIM Test 4 was not performed.

- MARSSIM Test 4, the Elevated Measurement Comparison (EMC)/Unity Rule test, was conducted if ‘hot spot(s)’ (distinct areas that contained clustered Ra-226 concentrations greater than gross DCGL) were present on the property. The test measured whether the property’s average Ra-226 concentration was greater than the gross DCGL while taking into account the addition of ‘hot spot’ Ra-226 concentrations as compared to an adjusted gross DCGL ($DCGL_{EMC}$). The Unity ratio thus represents the fraction of the DCGL and $DCGL_{EMC}$ that a property’s contamination exhibits above background and must be less than 1.0 for a property to pass.

Each property assessment and statistical test results were reviewed by a CHP in the form of a property status statement. The results of the Phase 1 Outdoor Assessments are presented in Table 3-1 and summarized below:

- Two properties failed the Phase 1 Outdoor Assessment and were eligible for Phase 2 Indoor Assessments. In addition, the 2 properties are eligible for a removal action of contaminated soils.

3.3 PHASE 2 INDOOR ASSESSMENT

EPA conducted Phase 2 Indoor Assessments at three Canyon Largo properties beginning 18 February 2014. In addition to conducting Phase 2 assessments at the 2 properties that failed the Phase 1 Outdoor Assessment, a Phase 2 Indoor Assessment was conducted at one additional property due to elevated radioactivity emanating from house-foundation materials. A Phase 2 Assessment is on-going (long-term radon gas sampling) at one of the properties at the time of this interim report. The EPA Team plans to conduct a Phase 2 Indoor Assessment at an additional house with elevated radioactivity emanating from house-foundation materials.

The complete Phase 2 Indoor Assessments consisted of sampling and interior surveys that included the following activities:

- Placement and collection of two short-term (6-day minimum, 7-day maximum) radon gas samples utilizing activated-charcoal adsorbent canisters with diffusion barriers in two separate locations of each residence for laboratory analysis of Rn-222 (10 percent of sample canisters had a third, co-located duplicate canister). Canister placement locations were documented on individual property indoor-sketch sheets.
- Placement and collection of two long-term (91-day minimum; no maximum) radon gas samples, utilizing track-etch detectors, at the two short-term canister locations of each residence where short-term Rn-222 results exceeded the EPA and CDC acceptable

exposure level of 4 pCi/l, for laboratory analysis of Rn-222. Ten percent of sample detectors had a third, co-located duplicate detector. Detector placement locations were documented on individual property indoor-sketch sheets.

- Collection of 5-minute, stationary, gamma measurements utilizing a PIC in the center of a minimum of the two most-often occupied rooms of a residence. The measurements were downloaded to the property-specific Excel spreadsheets. The start and end times of PIC measurements were documented on individual property PIC timesheets and the PIC measurement locations were recorded on indoor sketch sheets.
- Performance of a walking gamma scan of the floor and walls of each room in a residence utilizing a NaI probe. The range of measurements was recorded for each room on standardized results sheets.
- Collection of wipe samples at locations where gamma scan readings exceeded a residence-specific screening level (quick, 'whole-house' scan average plus 1,900 cpm). No wipe-sample duplicates were collected. The wipe samples were analyzed by field personnel using an alpha tray counter (Ludlum Model 43-10 alpha scintillation detector, attached to a Ludlum Model 2000 scaler counting instrument). The tray-counter results and associated gamma-scan measurements were recorded on standardized results sheets and transferred to the property-specific spreadsheet.
- Collection of additional 5-minute, stationary, gamma measurements utilizing a PIC in the center of each room where wipe sample(s) were collected. The measurements were downloaded to the property-specific Excel spreadsheets. The start and end times of PIC measurements were documented on individual property PIC timesheets and PIC measurement locations were recorded on indoor-sketch sheets.
- Photo-documentation of PIC and radon sample canister/detector locations.

For each property that had a Phase 2 Assessment, the PIC-measured gamma exposure rate (using the average of all measured rooms as the entire residential average) was compared to an indoor screening level of 2.5 microrentgens per hour ($\mu\text{R/hr}$) above background (the indoor exposure rate resulting from surface soils contaminated to the DCGL of 2.5 pCi/g above background of Ra-226; refer to the Quality Assurance Sampling Plan for additional details regarding the derivation of this screening level). Each assessed property then had an annual, indoor, gamma dose above background (effective dose equivalent [indoor EDE]) calculated in the property-specific Excel spreadsheet, assuming default values of 12 hours per day and 365 days per year spent indoors. The indoor exposure rate was converted from milliroentgens (mR) to indoor EDE in milliroentgens-equivalent-in-man [mrem]) using a factor of $1.5 \text{ mR} = 1 \text{ mrem}$, determined by MicroShield Analysis.

For properties exceeding the indoor gamma exposure-rate screening-level of 2.5 $\mu\text{R/hr}$ above background and whose outdoor assessment results were approximated to be less than the screening level of 3,648 cpm above background, a MARSSIM Final Status Survey would be required to determine the average outdoor soil concentration to calculate a property's Total Effective Dose Equivalent (TEDE) for comparison to the action-level of 15 mrem/yr. Properties whose indoor EDE levels exceeded 15 mrem/yr above background were noted as exceeding the action-level TEDE (indoor EDE plus outdoor EDE) even without taking into account the addition of outdoor EDE levels. Indoor walking gamma-scan results with at least one measurement that exceeded a level three times the background average were noted.

The same background locations that were utilized for Phase 1 assessment results were used for comparison to the Phase 2 results. Upon review of each property's Phase 2 Indoor Assessment results and indoor EDE calculations, a CHP generated a property status statement. Properties were deemed to fail the Phase 2 Indoor Assessment based on comparisons to removal action levels for radon, gross alpha contamination, and TEDE and were recommended for removal actions. Only properties whose long-term radon sample results exceeded the action level were recommended for radon abatement removal action. Additionally, properties were deemed to fail Phase 2 if an indoor gamma scan measurement exceeded 3 times background average.

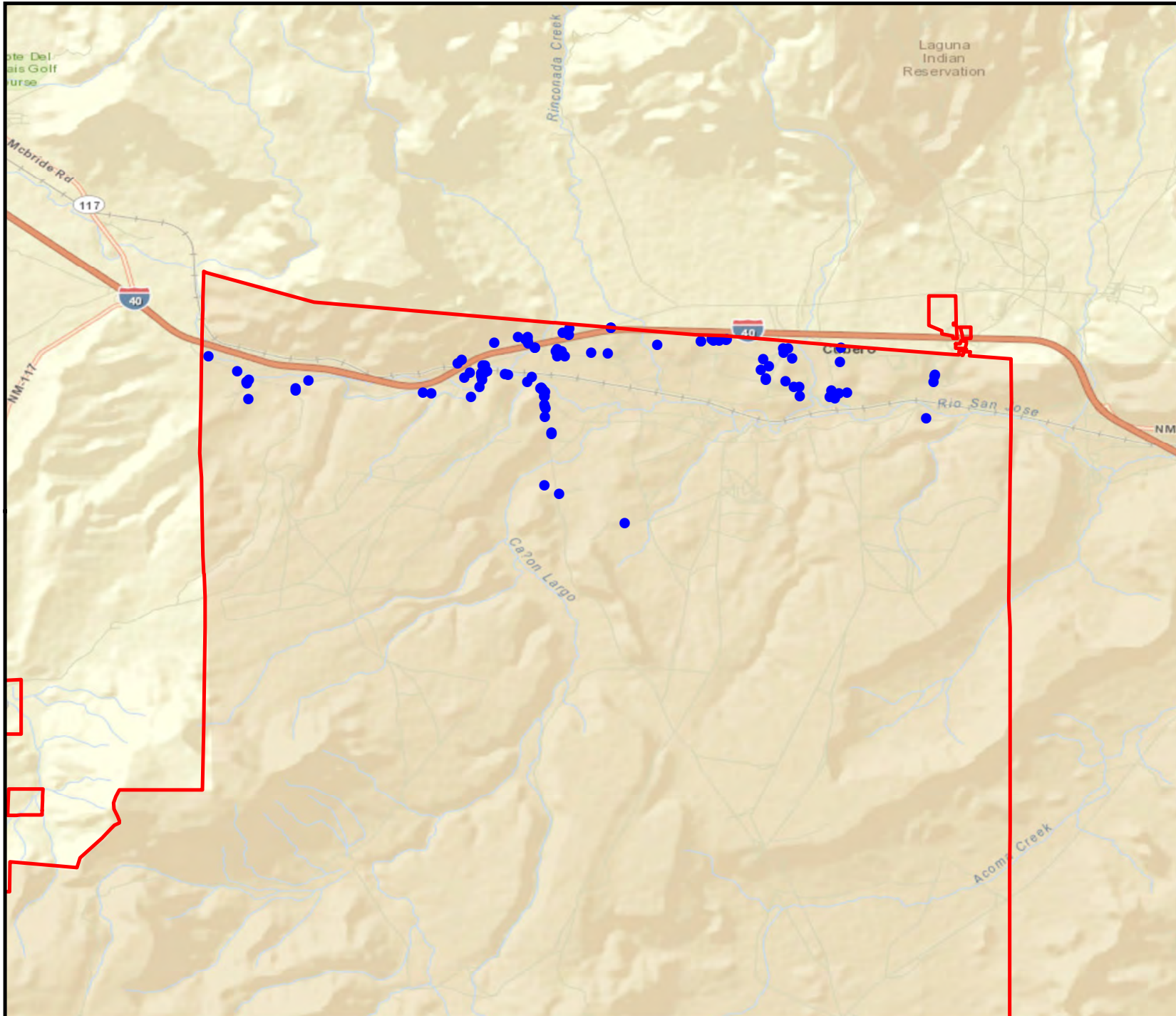
The results of the Phase 2 Indoor Assessments are tabulated in Table 3-2 and summarized below:

- One property exhibited indoor gamma exposure rates that equaled or exceeded the screening level of 2.5 micro Roentgens per hour ($\mu\text{R/hr}$) above background. This property failed the Phase 1 Outdoor Assessment and is eligible for a soils removal. Post-removal, a Final Status Survey will be conducted and the average outdoor soil concentration will be used to calculate the property's TEDE.
- No property exhibited a calculated, indoor Effective Dose Equivalent (EDE) that exceeded the EPA risk-based TEDE action level of 15 mrem/yr above background. An exceedance would have rendered a property eligible for a removal action of structural-materials.
- No property exhibited at least one indoor gamma-scan result greater than three times background levels. An exceedance would have rendered a property eligible for a removal action of structural-materials.

- Of the 2 properties sampled for radon to present, no property exhibited long-term Rn-222 concentrations that met or exceeded the EPA and Center for Disease Control (CDC) action level of 4 pCi/L. Long-term Rn-222 sample results are currently pending for a third property; results are due approximately 01 June 2014. An exceedance of the action level renders a property eligible for installation of a radon abatement system.
- No property exhibited indoor-surface, gross alpha concentrations that met or exceeded the Nuclear Regulatory Commission (NRC) action level of 20 disintegrations per minute per 100 square centimeters (dpm/100 cm²). An exceedance would have rendered a property eligible for a removal action (“wipe-down”) of indoor surfaces.

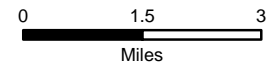
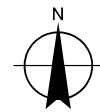
4. REMOVAL VOLUME ESTIMATES

Volume estimates for the removal of surface soils are provided in Table 4-1. The total removal-volume estimate of contaminated soils to a depth of 6 inches is 4.2 cubic yards. Allowing for 10% soil-volume expansion once removed, the estimate increases to 4.6 cubic yards. A 30% expansion yields an estimate of 5.4 cubic yards. The total removal-volume estimate of contaminated soils to a depth of 12 inches doubles the estimates for 6 inches – 8.3 cubic yards increasing to 9.2 and 10.8 cubic yards for 10% and 30% expansions, respectively.



LEGEND

- Acoma Reservation Boundary
- Property Locations



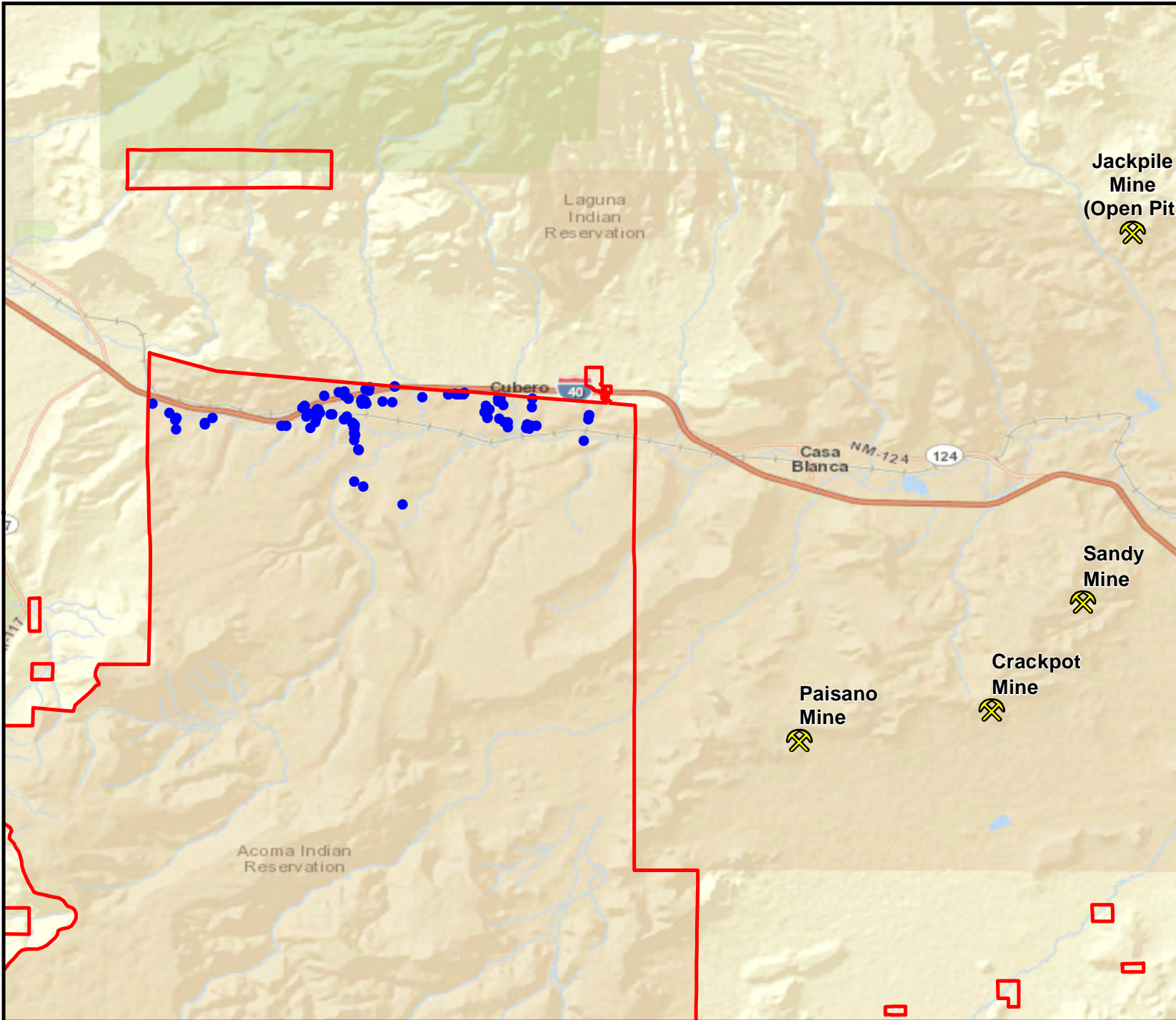
TDD NO: 1/WESTON-042-13-015
 CERCLIS: NMN000607526
 SOURCE: ESRI World Imagery



US EPA REGION 6

FIGURE 2-1
 SITE LOCATION MAP
 CANYON LARGO ASSESSMENT
 ACOMA PUEBLO
 CIBOLA COUNTY,
 NEW MEXICO

DATE APR 2014	PROJECT NO 20406.012.001.0814.01	SCALE AS SHOWN
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NEW MEXICO

LEGEND

- Property Locations (92)
- Uranium Mines
- Acoma Reservation Boundary

0 2.5 5
Miles

TDD NO: 1/WESTON-042-13-015
 CERCLIS: NMN000607526
 SOURCE: ESRI World Imagery

US EPA REGION 6

FIGURE 2-2
 SITE AREA MAP
 CANYON LARGO ASSESSMENT
 ACOMA PUEBLO
 CIBOLA COUNTY,
 NEW MEXICO

DATE APR 2014	PROJECT NO 20406.012.001.0814.01	SCALE AS SHOWN
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TABLE 3-1
Summary of Phase 1 Outdoor Assessment Field Screening, Laboratory Analytical Results, and MARSSIM Statistical Tests
Canyon Largo Site
Acoma Pueblo, Cibola County, New Mexico
August 2013 - Present

Property ID ₁	Residential Info. Sheet (Mine/Mill Material Used to Build House or Kept Indoors?)	Gamma Scan Avg. (counts per minute [CPM]) ₂	Highest Gamma Scan Measurement (counts per minute [CPM]) ₂	Standard Deviation: Gamma Scan (counts per minute [CPM]) ₂	20 One-Minute Stationary Measurements Avg. (counts per minute [CPM]) ₂	Highest One-Minute Stationary Measurement (counts per minute [CPM]) ₂	Standard Deviation: 20 One-Minute Stationary Measurements (counts per minute [CPM]) ₂	'Hot Spot' Surface Soil Sample Results [Radium-226] (picocuries per gram [pCi/g]) _{3,4}	'Hot Spot' Surface Soil Sample Location One-Minute Stationary Measurements (counts per minute [CPM]) ₂	MARSSIM Test 1 ₅	MARSSIM Test 2 ₆	MARSSIM Test 3 (Wilcoxon Rank Sum [WRS]) ₇	MARSSIM Test 4 (Elevated Measurement Comparison [EMC]/ Unity Rule) ₈
Shutivaville - Background-01	n/a	n/a	n/a	n/a	9,805 Avg. + DCGL = 13,453	9,448 lowest	285	0.95 (non-'hot') (Avg. of 20 samples) Avg. + DCGL = 3.45	n/a	n/a	n/a	n/a	n/a
AL7000	No	8,027	9,446	461	7,860	9,255	610	n/a	n/a	PASS	n/a	n/a	n/a
AL7005	No	9,845	12,238	502	10,011	10,946	534	n/a	n/a	PASS	n/a	n/a	n/a
AL7006	No	7,661	8,628	322	7,639	8,273	360	n/a	n/a	PASS	n/a	n/a	n/a
AL7007	Unknown	7,955	9,392	473	8,003	9,213	533	n/a	n/a	PASS	n/a	n/a	n/a
AL7008	No	9,464	12,465	532	9,418	11,106	646	n/a	n/a	PASS	n/a	n/a	n/a
AL7011	Unable to procure information	8,444	12,053	471	8,490	9,239	358	n/a	n/a	PASS	n/a	n/a	n/a
AL7013	Possibly	10,031	13,310	872	10,068	11,867	895	n/a	n/a	FAIL	PASS	PASS	n/a
AL7017	No	6,903	8,391	671	6,859	8,979	1,098	n/a	n/a	PASS	n/a	n/a	n/a
AL7022	Unable to procure information	7,668	10,610	576	7,893	8,550	353	n/a	n/a	PASS	n/a	n/a	n/a
AL7026	No	8,406	10,736	743	8,346	9,306	589	n/a	n/a	PASS	n/a	n/a	n/a
NA8001	No	7,115	11,359	593	7,161	8,675	506	n/a	n/a	PASS	n/a	n/a	n/a
NA8002	Yes	7,799	10,108	624	8,186	9,159	501	n/a	n/a	PASS	n/a	n/a	n/a
NA8003	Unable to procure information	8,248	10,370	714	8,382	9,487	582	n/a	n/a	PASS	n/a	n/a	n/a
NA8004	Unknown	8,739	10,904	503	8,724	9,258	341	n/a	n/a	PASS	n/a	n/a	n/a
NA8005	No	8,434	10,406	505	8,447	9,172	382	n/a	n/a	PASS	n/a	n/a	n/a
NA8006	No	7,841	9,667	449	7,814	8,372	248	n/a	n/a	PASS	n/a	n/a	n/a
NA8007	No	7,585	10,009	571	7,681	9,186	598	n/a	n/a	PASS	n/a	n/a	n/a
NA8008	No	7,415	8,392	284	7,614	8,137	293	n/a	n/a	PASS	n/a	n/a	n/a
NA8009	Unable to procure information	7,550	11,032	618	7,575	8,820	463	n/a	n/a	PASS	n/a	n/a	n/a
NA8011	No	7,505	9,547	348	7,609	8,314	311	n/a	n/a	PASS	n/a	n/a	n/a
NA8013	Unknown	10,094	34,862	1,715	9,944	12,117	913	13.4 (1 sample)	315,309	FAIL	PASS	PASS	FAIL (9.86)
NA8015	Yes	10,107	11,988	795	10,227	11,722	1,007	n/a	n/a	PASS	n/a	n/a	n/a
NA8016	Possible	9,029	11,782	726	9,273	10,272	621	n/a	n/a	PASS	n/a	n/a	n/a
NA8017	No	8,509	9,788	535	8,356	9,445	642	n/a	n/a	PASS	n/a	n/a	n/a
NA8024	No	6,903	7,712	209	6,867	7,252	193	n/a	n/a	PASS	n/a	n/a	n/a
NA8025	No	6,814	7,986	357	6,938	7,924	381	n/a	n/a	PASS	n/a	n/a	n/a
NA8032	Unable to procure information	5,839	8,128	434	5,915	6,541	255	n/a	n/a	PASS	n/a	n/a	n/a
NA8037	No	7,762	10,867	579	7,629	8,533	503	n/a	n/a	PASS	n/a	n/a	n/a
NW2001	No	11,316	13,712	652	11,470	12,047	544	n/a	n/a	FAIL	PASS	PASS	n/a
NW2003	No	8,525	9,560	411	8,441	8,987	420	n/a	n/a	PASS	n/a	n/a	n/a
OT4010	Possibly	11,588	14,072	685	11,598	12,364	616	n/a	n/a	FAIL	PASS	PASS	PASS

TABLE 3-1
Summary of Phase 1 Outdoor Assessment Field Screening, Laboratory Analytical Results, and MARSSIM Statistical Tests
Canyon Largo Site
Acoma Pueblo, Cibola County, New Mexico
August 2013 - Present

Property ID ₁	Residential Info. Sheet (Mine/Mill Material Used to Build House or Kept Indoors?)	Gamma Scan Avg. (counts per minute [CPM]) ₂	Highest Gamma Scan Measurement (counts per minute [CPM]) ₂	Standard Deviation: Gamma Scan (counts per minute [CPM]) ₂	20 One-Minute Stationary Measurements Avg. (counts per minute [CPM]) ₂	Highest One-Minute Stationary Measurement (counts per minute [CPM]) ₂	Standard Deviation: 20 One-Minute Stationary Measurements (counts per minute [CPM]) ₂	'Hot Spot' Surface Soil Sample Results [Radium-226] (picocuries per gram [pCi/g]) _{3,4}	'Hot Spot' Surface Soil Sample Location One-Minute Stationary Measurements (counts per minute [CPM]) ₂	MARSSIM Test 1 ₅	MARSSIM Test 2 ₆	MARSSIM Test 3 (Wilcoxon Rank Sum [WRS]) ₇	MARSSIM Test 4 (Elevated Measurement Comparison [EMC]/ Unity Rule) ₈
SV5003	No	7,101	8,233	324	7,187	7,852	288	n/a	n/a	PASS	n/a	n/a	n/a
SV5004	No	7,706	10,372	689	7,734	8,945	591	n/a	n/a	PASS	n/a	n/a	n/a
Anzac - Background-01	n/a	n/a	n/a	n/a	8,767 Avg. + DCGL = 12,415	7,668 lowest	745	0.60 (non-'hot') (Avg. of 20 samples) Avg. + DCGL = 3.10	n/a	n/a	n/a	n/a	n/a
AZ1001	Unknown	8,189	10,418	562	8,352	9,688	505	n/a	n/a	PASS	n/a	n/a	n/a
AZ1003	Unable to procure information	8,463	10,433	528	8,334	9,220	281	n/a	n/a	PASS	n/a	n/a	n/a
AZ1004	Yes	7,826	11,585	577	7,719	9,009	398	n/a	n/a	FAIL	PASS	PASS	n/a
AZ1006	No	8,431	9,565	472	8,575	8,999	536	n/a	n/a	PASS	n/a	n/a	n/a
AZ1007	No	8,700	12,646	707	8,726	9,859	488	0.662 (1 sample)	11,641	FAIL	PASS	PASS	PASS (0.05)
AZ1008	No	8,543	11,711	724	9,322	12,048	934	n/a	n/a	FAIL	PASS	PASS	n/a
AZ1009	No	8,832	12,238	746	9,085	10,923	669	n/a	n/a	FAIL	PASS	PASS	n/a
McCartys - Background-01	n/a	n/a	n/a	n/a	12,313 Avg. + DCGL = 15,961	12,031 lowest	143	1.44 (non-'hot') (Avg. of 20 samples) Avg. + DCGL = 3.94	n/a	n/a	n/a	n/a	n/a
MC3000	Unable to procure information	7,186	9,106	491	7,352	8,048	415	n/a	n/a	PASS	n/a	n/a	n/a
MC3001	No	7,959	9,238	436	8,002	8,774	405	n/a	n/a	PASS	n/a	n/a	n/a
MC3004	No	8,090	11,622	872	8,114	9,850	762	n/a	n/a	PASS	n/a	n/a	n/a
MC3006	Unknown	7,318	13,441	756	7,339	8,574	497	n/a	n/a	PASS	n/a	n/a	n/a
MC3008	Unknown	9,173	17,436	1,273	8,959	11,024	896	6.24 (1 sample)	17,008	FAIL	PASS	PASS	PASS (0.29)
MC3018	Unknown/maybe	8,012	10,010	570	7,981	8,979	443	n/a	n/a	PASS	n/a	n/a	n/a
Skyline-Ganipa - Background-01	n/a	n/a	n/a	n/a	8,146 Avg. + DCGL = 11,794	7,868 lowest	194	0.15 (non-'hot') (Avg. of 20 samples) Avg. + DCGL = 2.65	n/a	n/a	n/a	n/a	n/a
OT4000	Unable to procure information	8,722	10,379	471	8,706	9,028	224	n/a	n/a	PASS	n/a	n/a	n/a
OT4002	Unknown/Possibly	8,639	11,111	559	8,581	9,406	394	n/a	n/a	PASS	n/a	n/a	n/a
OT4003	No	8,927	11,703	593	9,346	10,499	435	n/a	n/a	FAIL	PASS	PASS	n/a
OT4004	No	8,168	12,271	515	8,144	8,910	297	n/a	n/a	FAIL	PASS	PASS	PASS (0.03)
OT4005	Yes	7,987	9,896	540	8,137	9,088	406	n/a	n/a	PASS	n/a	n/a	n/a
OT4006	Yes	8,308	10,190	539	8,472	9,528	458	n/a	n/a	PASS	n/a	n/a	n/a
OT4019	Unable to procure information	8,160	10,078	657	8,279	9,061	549	n/a	n/a	PASS	n/a	n/a	n/a
OT4023	No	9,297	15,130	916	9,280	10,166	546	n/a	n/a	FAIL	PASS	PASS	PASS (0.59)
OT4024	Possibly	8,298	13,322	908	8,317	9,655	538	0.694-0.886 (3 samples)	11,253-12,735	FAIL	PASS	PASS	PASS (0.08)

TABLE 3-1
Summary of Phase 1 Outdoor Assessment Field Screening, Laboratory Analytical Results, and MARSSIM Statistical Tests
Canyon Largo Site
Acoma Pueblo, Cibola County, New Mexico
August 2013 - Present

Property ID ₁	Residential Info. Sheet (Mine/Mill Material Used to Build House or Kept Indoors?)	Gamma Scan Avg. (counts per minute [CPM]) ₂	Highest Gamma Scan Measurement (counts per minute [CPM]) ₂	Standard Deviation: Gamma Scan (counts per minute [CPM]) ₂	20 One-Minute Stationary Measurements Avg. (counts per minute [CPM]) ₂	Highest One-Minute Stationary Measurement (counts per minute [CPM]) ₂	Standard Deviation: 20 One-Minute Stationary Measurements (counts per minute [CPM]) ₂	'Hot Spot' Surface Soil Sample Results [Radium-226] [pCi/g] _{3,4}	'Hot Spot' Surface Soil Sample Location One-Minute Stationary Measurements (counts per minute [CPM]) ₂	MARSSIM Test 1 ₅	MARSSIM Test 2 ₆	MARSSIM Test 3 (Wilcoxon Rank Sum [WRS]) ₇	MARSSIM Test 4 (Elevated Measurement Comparison [EMC]/ Unity Rule) ₈
OT4025	No	8,450	10,853	608	8,100	8,879	399	n/a	n/a	PASS	n/a	n/a	n/a
OT4026	Unable to procure information	7,630	10,633	619	7,549	9,565	1,604	n/a	n/a	PASS	n/a	n/a	n/a
OT4034	Unable to procure information	7,076	8,719	430	7,089	7,622	281	n/a	n/a	PASS	n/a	n/a	n/a
OT4036	No	7,829	10,615	358	7,827	8,410	311	n/a	n/a	PASS	n/a	n/a	n/a
OT4037	No	9,964	13,043	1,053	10,004	12,156	1,207	1.14-1.79 (2 samples)	11,936-11,953	FAIL	PASS	PASS	PASS
OT4041	No	8,131	10,547	546	8,140	9,136	514	n/a	n/a	PASS	n/a	n/a	n/a
OT4042	No	8,904	10,792	574	8,843	9,527	445	n/a	n/a	PASS	n/a	n/a	n/a
OT4043	No	7,963	12,874	1,455	8,079	11,424	1,112	2.40 (1 sample)	11,638	FAIL	PASS	PASS	PASS (0.38)
OT4044	Unable to procure information	8,166	11,006	522	8,057	9,043	400	n/a	n/a	PASS	n/a	n/a	n/a
OT4049	Unable to procure information	8,354	10,820	532	8,312	8,945	291	n/a	n/a	PASS	n/a	n/a	n/a
OT4050 ₉	Unable to procure information	9,171	11,133	520	9,042	9,541	321	1.05-1.18 (5 samples)	8,559-9,113	PASS	n/a	n/a	n/a
OT4054	No	7,732	9,597	461	7,729	8,560	283	n/a	n/a	PASS	n/a	n/a	n/a
OT4056	Unknown	9,897	12,667	507	10,033	10,452	249	n/a	n/a	FAIL	PASS	PASS	PASS (0.86)
OT4057	No	8,819	11,073	575	8,680	9,517	424	n/a	n/a	PASS	n/a	n/a	n/a
OT4060	No	8,726	10,843	646	8,984	9,856	542	n/a	n/a	PASS	n/a	n/a	n/a
OT4062	No	7,730	9,778	488	7,972	8,757	249	n/a	n/a	PASS	n/a	n/a	n/a
OT4066	Unable to procure information	8,466	11,765	658	8,747	9,551	348	n/a	n/a	FAIL	PASS	PASS	n/a
OT4078	Unable to procure information	8,933	10,979	531	8,696	9,311	250	n/a	n/a	PASS	n/a	n/a	n/a
OT4079	No	9,289	1,430	15,391	9,182	10,277	738	n/a	n/a	FAIL	PASS	PASS	n/a
SA9001	No	8,460	25,150	1,446	8,701	18,415	2,377	0.749 (1 sample)	37,519	FAIL	PASS	PASS	FAIL (1.10)
SA9002	No	8,828	11,395	1,133	8,969	11,472	1,186	n/a	n/a	PASS	n/a	n/a	n/a
SA9007	Possibly	7,944	9,667	481	7,931	8,387	292	n/a	n/a	PASS	n/a	n/a	n/a
SA9010	No	8,497	11,681	829	8,473	9,532	547	n/a	n/a	PASS	n/a	n/a	n/a
SA9011	Unable to procure information	8,357	16,413	988	8,474	10,706	893	0.91-1.03 (2 samples)	8,235-10,323	FAIL	PASS	PASS	PASS (0.08)
SA9012	No	9,432	13,585	1,135	9,251	11,112	827	1.71 (1 sample)	13,471	FAIL	PASS	PASS	PASS (0.76)
SA9013	No	8,023	10,885	600	8,161	9,099	462	n/a	n/a	PASS	n/a	n/a	n/a
SA9014	Unknown/Possibly	7,955	9,736	578	7,857	8,827	461	n/a	n/a	PASS	n/a	n/a	n/a
SA9019	No	7,727	10,305	648	7,783	9,123	552	n/a	n/a	PASS	n/a	n/a	n/a
SA9022	No	8,165	9,612	445	8,035	9,243	446	n/a	n/a	PASS	n/a	n/a	n/a

TABLE 3-1
Summary of Phase 1 Outdoor Assessment Field Screening, Laboratory Analytical Results, and MARSSIM Statistical Tests
Canyon Largo Site
Acoma Pueblo, Cibola County, New Mexico
August 2013 - Present

Property ID ₁	Residential Info. Sheet (Mine/Mill Material Used to Build House or Kept Indoors?)	Gamma Scan Avg. (counts per minute [CPM]) ₂	Highest Gamma Scan Measurement (counts per minute [CPM]) ₂	Standard Deviation: Gamma Scan (counts per minute [CPM]) ₂	20 One-Minute Stationary Measurements Avg. (counts per minute [CPM]) ₂	Highest One-Minute Stationary Measurement (counts per minute [CPM]) ₂	Standard Deviation: 20 One-Minute Stationary Measurements (counts per minute [CPM]) ₂	'Hot Spot' Surface Soil Sample Results [Radium-226] (picocuries per gram [pCi/g]) _{3,4}	'Hot Spot' Surface Soil Sample Location One-Minute Stationary Measurements (counts per minute [CPM]) ₂	MARSSIM Test 1 ₅	MARSSIM Test 2 ₆	MARSSIM Test 3 (Wilcoxon Rank Sum [WRS]) ₇	MARSSIM Test 4 (Elevated Measurement Comparison [EMC]/ Unity Rule) ₈
SA9025	No	9,073	12,700	629	8,793	9,805	423	1.12 (1 sample)	11,518	FAIL	PASS	PASS	PASS (0.34)
SG6001	No	9,411	11,959	549	9,402	9,800	222	n/a	n/a	FAIL	PASS	PASS	n/a
SG6007	Possibly	10,089	13,029	655	10,351	11,212	487	n/a	n/a	FAIL	PASS	PASS	PASS (0.58)
SG6008	Possibly	9,471	11,519	551	9,740	10,892	376	n/a	n/a	FAIL	PASS	PASS	n/a
SG6011	Unable to procure information	8,039	11,119	546	7,968	8,939	422	n/a	n/a	PASS	n/a	n/a	n/a
SG6015A	No	6,755	8,726	544	6,948	7,819	517	n/a	n/a	PASS	n/a	n/a	n/a
SG6015B	Unable to procure information	7,888	9,980	654	8,075	8,888	455	n/a	n/a	PASS	n/a	n/a	n/a
SG6017	Unknown	8,818	10,750	588	8,755	9,422	434	n/a	n/a	PASS	n/a	n/a	n/a
SG6023	No	9,359	12,454	718	9,198	10,384	542	n/a	n/a	FAIL	PASS	PASS	PASS (0.58)

₁Shaded properties (entire row) failed the Phase 1 Outdoor Assessment and were eligible for a Removal Action (Outdoor Soils) and a Phase 2 Indoor Assessment.

₂Gamma-scan results and stationary, 1-minute measurements were obtained using a Ludlum Model 44-10 2"x2" Sodium Iodine (NaI) probe attached to a Ludlum Model 2221 count-meter.

₃'Hot Spot' surface samples were obtained if any walking, gamma scan measurements were greater than Background average of 20 one-minute, stationary measurements + Derived Concentration Guideline Level (DCGL) of 3,648 cpm.

₄Radium-226 was assumed to be in equilibrium with Bismuth-214; thus, all Radium-226 results are reported as equivalent to Bismuth-214 results.

₅A definition of MARSSIM Test 1 is provided in Section 3.2 of this report. If MARSSIM Test 1 = PASS, MARSSIM Tests 2 and 3 are unnecessary. If MARSSIM Test 1 = PASS, Marssim Test 4 may or may not be necessary.

₆A definition of MARSSIM Test 2 is provided in Section 3.2 of this report. If MARSSIM Test 2 = FAIL, MARSSIM Tests 3 and 4 are unnecessary and the property was deemed to have failed the Phase 1 Outdoor Assessment. If MARSSIM Test 2 = PASS, Test 4 may or may not be necessary.

₇A definition of MARSSIM Test 3 is provided in Section 3.2 of this report. If MARSSIM Test 3 = FAIL, MARSSIM Test 4 is unnecessary and the property was deemed to have failed the Phase 1 Outdoor Assessment. If MARSSIM Test 3 = PASS, Test 4 may or may not be necessary.

₈A definition of MARSSIM Test 4 is provided in Section 3.2 of this report. If the MARSSIM TEST 4 result equals 1.0 or greater, the property was deemed to have failed the Phase 1 Outdoor Assessment.

TABLE 3-2
 Summary of Phase 2 Indoor Assessment Field Screening and Measurements, Laboratory Analytical Results, and Dose Calculations
 Canyon Largo Site
 Acoma Pueblo, Cibola County, New Mexico
 February 2014 - Present

Property ID	Short-term (7-day) Indoor radon-222 (pico curies per liter) pCi/l _{1,2}	Long-term (90-day) Indoor radon-222 (pico curies per liter) pCi/l _{3,4}	Pressurized Ion Chamber (PIC): Indoor Gamma Exposure Rate Above Bkgd. --Avg. of All Measured Rooms-- (milli Roentgens per hour) µR/hr _{1,5,6}	Pressurized Ion Chamber (PIC): Calculated Indoor Annual Gamma Dose Above Bkgd. --Avg. of All Measured Rooms-- Assumes 12 hrs/day; 365 days/yr (milli Roentgens-equivalent-man per year) mrem/yr _{1,5,7}	Walking Gamma Indoor Scan: All Rooms (counts per minute) CPM _{1,8}	Highest Walking Gamma Indoor Scan Measurement Greater Than 3 X Background Average? ₉	Alpha Wipe Sample Results (disintegrations per minute per 100 square centimeters) DPM/100 cm ² ₁₀
<i>Shutivaville-Background-01</i>	<i>n/a</i>	<i>n/a</i>	<i>Outdoor 14.0</i>	<i>Outdoor 40.8</i>	<i>n/a</i>	<i>Outdoor 9,805 cpm</i>	<i>n/a</i>
NA8013 ₁₁	13.6 14.1 14.8	Results Expected 01 June 2014	0.0	0.0	7,100-12,900	No	0.0-0.0 (3 samples)
<i>Skyline-Ganipa-Background-01</i>	<i>n/a</i>	<i>n/a</i>	<i>Outdoor 12.6</i>	<i>Outdoor 36.8</i>	<i>n/a</i>	<i>Outdoor 8,146 cpm</i>	<i>n/a</i>
OT4023 ₁₁	2.2 2.3	n/a	1.6	4.5	7,600-16,500	No	0.0-5.0 (3 Samples)
SA9001	2.1 2.7	n/a	2.6	7.7	9,000-18,600	No	0.0-0.0 (4 samples)

¹Properties were eligible for a Phase 2 Indoor Assessment if they failed the Phase 1 Outdoor Assessment. OT4023 did not fail Phase 1; however, due to elevated gamma measurements emanating from the house foundation, a Phase 2 Indoor Assessment was conducted.

²Properties with 3 results had a duplicate canister or detector placed in the home.

³Properties were eligible for long-term (90-day) radon sampling if at least one short-term (6-day) sample result exceeded 4.0 pCi/L.

⁴Results shaded in gray indicate levels greater than the EPA removal action level of 4 pCi/l; the corresponding properties were eligible for installation of radon abatement systems. At the time of this report, no properties met this criteria.

⁵PIC measurements were obtained using a Reuter Stokes Model RSS 131 Pressurized Ion Chamber.

⁶A property with an indoor gamma exposure rate greater than the EPA screening level of 2.5 µR/hr above background requires a Final Status Survey to determine its Total Effective Dose Equivalent (TEDE). SA9001 exceeded the screening level and will receive a Final Status Survey post-removal of contaminated soils.

⁷The EPA removal action level = 15 mrem/yr; a property exceeding this level was eligible for a structural-materials removal action. No property met this criteria.

⁸Gamma scan results were obtained using a Ludlum Model 44-10 2"x2" Sodium Iodine (NaI) probe attached to a Ludlum Model 2221 count-meter.

⁹Results shaded in gray indicate the property failed the Phase 2 Indoor Assessment and was eligible for a structural-materials removal action. No properties met this criteria.

¹⁰Wipe samples were analyzed utilizing an alpha tray counter: Ludlum Model 43-10 alpha scintillation detector, attached to a Ludlum Model 2000 scaler counting instrument. Wipe samples were only collected if room-scan measurements were greater than a 'quick-scan, whole-house average' plus 1,900 cpm. The Action Level for alpha wipe samples = 20 disintegrations per minute per 100 square centimeters (dpm/100 cm²). No properties met this criteria.

¹¹Properties were constructed of either adobe, cinder blocks or both and had a thick-wall factor of 1.2 applied to the background average per the Report of the United Nations Scientific Committee on Effects of Atomic Radiation, United Nations (1977), Annex B, Natural Sources of Radiation.

TABLE 4-1
Removal Volume Estimates
Canyon Largo Site
Acoma Pueblo, Cibola County, New Mexico
May 2014

Removal Depth - 6 Inches

Property ID	Approximate Removal Area (Square Feet)	Removal Depth (Inches)	Removal Volume (Cubic Yards)	Removal Volume Plus 10% 'Fluff' Factor (Cubic Yards)	Removal Volume Plus 30% Fluff Factor (Cubic Yards)
NA8013	100	6	1.9	2.0	2.4
SA9001	125	6	2.3	2.5	3.0
Totals	225	6	4.2	4.6	5.4

Removal Depth - 12 Inches

Property ID	Approximate Removal Area (Square Feet)	Removal Depth (inches)	Removal Volume (Cubic Yards)	Removal Volume Plus 10% 'Fluff' Factor (Cubic Yards)	Removal Volume Plus 30% Fluff Factor (Cubic Yards)
NA8013	100	12	3.7	4.1	4.8
SA9001	125	12	4.6	5.1	6.0
Total	225	12	8.3	9.2	10.8



<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07027					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
								Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07027-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07027-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Cobalt-60	LANL ER-130 Modified	1.38E+02	9.45E+00	1.18E+01	6.08E-01	pCi/g	
13-07027-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Cesium-137	LANL ER-130 Modified	8.36E+01	8.51E+00	9.53E+00	4.70E-01	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	-2.36E-02	5.11E-02	5.11E-02	9.82E-02	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	1.98E-03	3.67E-02	3.67E-02	7.31E-02	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.59E-01	2.25E-01	2.25E-01	5.10E-01	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	1.29E-01	1.44E+00	1.44E+00	2.98E+00	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	-1.88E-02	2.75E-02	2.75E-02	4.83E-02	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	-7.38E-03	3.84E-02	3.84E-02	6.60E-02	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	1.98E-03	3.67E-02	3.67E-02	7.31E-02	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	7.39E-01	5.76E-01	5.77E-01	4.46E-01	pCi/g	
13-07027-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	1.62E-02	5.64E-02	5.64E-02	1.11E-01	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	5.65E-01	1.45E-01	1.48E-01	1.87E-01	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.44E-01	1.03E-01	1.05E-01	9.69E-02	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.62E+01	2.14E+00	2.29E+00	3.15E-01	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	6.20E+00	4.05E+00	4.06E+00	8.36E+00	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	5.70E-01	1.51E-01	1.53E-01	8.41E-02	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	4.56E-01	1.25E-01	1.27E-01	9.44E-02	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	4.44E-01	1.03E-01	1.05E-01	9.69E-02	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	1.88E-01	7.11E-01	7.11E-01	1.26E+00	pCi/g	
13-07027-03	DUP	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	3.91E-01	1.06E-01	1.08E-01	1.31E-01	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	4.70E-01	1.58E-01	1.60E-01	3.32E-01	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.42E-01	1.05E-01	1.07E-01	9.40E-02	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.61E+01	2.14E+00	2.29E+00	4.17E-01	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	1.61E+00	3.52E+00	3.52E+00	6.87E+00	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	5.26E-01	1.41E-01	1.44E-01	7.99E-02	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	4.31E-01	1.23E-01	1.25E-01	9.72E-02	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	4.42E-01	1.05E-01	1.07E-01	9.40E-02	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	6.58E-01	7.23E-01	7.24E-01	1.30E+00	pCi/g	
13-07027-04	DO	AZBKGD-01-61-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	5.05E-01	1.12E-01	1.15E-01	1.46E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07027					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.86E-01	1.78E-01	1.81E-01	1.91E-01	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.16E-01	1.02E-01	1.04E-01	1.08E-01	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.45E+01	1.98E+00	2.11E+00	4.97E-01	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	2.17E+00	3.57E+00	3.57E+00	6.98E+00	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	6.54E-01	1.26E-01	1.30E-01	8.15E-02	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	3.58E-01	1.03E-01	1.05E-01	1.13E-01	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	4.16E-01	1.02E-01	1.04E-01	1.08E-01	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	4.29E-01	7.44E-01	7.44E-01	1.32E+00	pCi/g	
13-07027-05	TRG	AZBKGD-01-62-130702	07/02/13 08:11	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	4.10E-01	1.09E-01	1.11E-01	1.45E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	5.89E-01	2.06E-01	2.08E-01	2.49E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	5.25E-01	1.49E-01	1.52E-01	1.10E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.47E+01	2.16E+00	2.28E+00	6.17E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	4.64E-01	4.21E+00	4.21E+00	7.78E+00	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	6.58E-01	1.32E-01	1.37E-01	8.67E-02	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	4.17E-01	1.22E-01	1.23E-01	1.15E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	5.25E-01	1.49E-01	1.52E-01	1.10E-01	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	4.29E-01	7.37E-01	7.37E-01	1.29E+00	pCi/g	
13-07027-06	TRG	AZBKGD-02-61-130702	07/02/13 08:14	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	4.97E-01	1.34E-01	1.36E-01	1.85E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.39E-01	1.80E-01	1.83E-01	1.88E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	5.39E-01	1.13E-01	1.16E-01	1.06E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.50E+01	2.00E+00	2.14E+00	5.61E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	3.75E-01	3.88E+00	3.88E+00	7.10E+00	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	6.38E-01	1.26E-01	1.30E-01	8.31E-02	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	5.16E-01	1.14E-01	1.17E-01	1.10E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	5.39E-01	1.13E-01	1.16E-01	1.06E-01	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	-2.00E-01	7.51E-01	7.51E-01	1.29E+00	pCi/g	
13-07027-07	TRG	AZBKGD-03-61-130702	07/02/13 08:16	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	4.86E-01	1.22E-01	1.25E-01	1.52E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07027					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Actinium-228	LANL ER-130 Modified	7.39E-01	2.01E-01	2.04E-01	3.05E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Bismuth-214	LANL ER-130 Modified	5.62E-01	1.54E-01	1.57E-01	1.50E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.71E+01	2.49E+00	2.64E+00	4.52E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	-6.40E-02	5.42E+00	5.42E+00	9.82E+00	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Lead-212	LANL ER-130 Modified	8.96E-01	1.74E-01	1.80E-01	1.08E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Lead-214	LANL ER-130 Modified	6.02E-01	1.53E-01	1.56E-01	1.34E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Radium-226	LANL ER-130 Modified	5.62E-01	1.54E-01	1.57E-01	1.50E-01	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Thorium-234	LANL ER-130 Modified	1.33E-01	8.55E-01	8.55E-01	1.49E+00	pCi/g	
13-07027-08	TRG	AZBKGD-04-61-130702	07/02/13 08:18	7/5/2013	7/29/2013	13-07027	Thallium-208	LANL ER-130 Modified	7.28E-01	1.78E-01	1.82E-01	1.96E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	7.54E-01	1.79E-01	1.84E-01	2.07E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	6.46E-01	1.18E-01	1.23E-01	1.03E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.73E+01	2.35E+00	2.51E+00	5.00E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	2.02E+00	4.23E+00	4.23E+00	8.19E+00	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	7.75E-01	1.98E-01	2.02E-01	1.02E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	6.99E-01	1.64E-01	1.68E-01	1.14E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	6.46E-01	1.18E-01	1.23E-01	1.03E-01	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	6.61E-01	8.33E-01	8.33E-01	1.49E+00	pCi/g	
13-07027-09	TRG	AZBKGD-05-61-130702	07/02/13 08:20	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	6.75E-01	1.84E-01	1.87E-01	3.04E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.10E-01	1.65E-01	1.68E-01	1.98E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.91E-01	1.11E-01	1.13E-01	1.05E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.46E+01	1.94E+00	2.08E+00	3.79E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	2.47E+00	4.18E+00	4.18E+00	7.50E+00	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	6.07E-01	1.26E-01	1.30E-01	9.00E-02	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	3.79E-01	1.05E-01	1.07E-01	1.22E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	4.91E-01	1.11E-01	1.13E-01	1.05E-01	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	9.82E-02	7.56E-01	7.56E-01	1.33E+00	pCi/g	
13-07027-10	TRG	AZBKGD-06-61-130702	07/02/13 08:24	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	3.69E-01	1.18E-01	1.20E-01	1.53E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07027					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	3.49E-01	2.46E-01	2.46E-01	3.69E-01	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.91E-01	1.18E-01	1.21E-01	9.93E-02	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.49E+01	2.17E+00	2.30E+00	5.46E-01	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	-2.40E+00	3.71E+00	3.72E+00	6.22E+00	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	5.64E-01	1.18E-01	1.22E-01	8.88E-02	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	4.30E-01	1.22E-01	1.24E-01	1.09E-01	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	4.91E-01	1.18E-01	1.21E-01	9.93E-02	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	-3.72E-01	6.90E-01	6.90E-01	1.17E+00	pCi/g	
13-07027-11	TRG	AZBKGD-07-61-130702	07/02/13 08:26	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	3.65E-01	1.42E-01	1.43E-01	1.62E-01	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.04E-01	1.33E-01	1.36E-01	1.69E-01	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	4.69E-01	1.26E-01	1.29E-01	1.98E-01	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.52E+01	2.03E+00	2.17E+00	4.34E-01	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	1.71E+00	3.57E+00	3.57E+00	6.85E+00	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	5.58E-01	1.41E-01	1.44E-01	7.91E-02	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	4.70E-01	1.24E-01	1.27E-01	9.29E-02	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	4.69E-01	1.26E-01	1.29E-01	1.98E-01	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	2.24E-01	6.68E-01	6.68E-01	1.18E+00	pCi/g	
13-07027-12	TRG	AZBKGD-08-61-130702	07/02/13 08:28	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	4.90E-01	1.47E-01	1.49E-01	2.49E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	1.03E+00	2.20E-01	2.27E-01	2.31E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	7.00E-01	1.33E-01	1.38E-01	1.25E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.98E+01	2.51E+00	2.70E+00	5.88E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	1.52E+00	4.60E+00	4.60E+00	8.60E+00	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	8.87E-01	1.70E-01	1.76E-01	1.04E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	7.74E-01	1.48E-01	1.53E-01	1.37E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	7.00E-01	1.33E-01	1.38E-01	1.25E-01	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	3.79E-01	9.11E-01	9.12E-01	1.60E+00	pCi/g	
13-07027-13	TRG	AZBKGD-09-61-130702	07/02/13 08:31	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	7.40E-01	1.52E-01	1.56E-01	2.05E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07027		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	7.83E-01	2.18E-01	2.22E-01	2.97E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	8.42E-01	1.82E-01	1.87E-01	1.37E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.83E+01	2.64E+00	2.80E+00	7.34E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	4.49E+00	5.20E+00	5.21E+00	8.32E+00	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	1.05E+00	1.97E-01	2.04E-01	1.12E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	8.08E-01	1.60E-01	1.65E-01	1.41E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	8.42E-01	1.82E-01	1.87E-01	1.37E-01	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	1.66E+00	1.11E+00	1.12E+00	1.28E+00	pCi/g	
13-07027-14	TRG	AZBKGD-10-61-130702	07/02/13 08:33	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	7.50E-01	1.74E-01	1.78E-01	2.09E-01	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.00E-01	1.99E-01	2.02E-01	3.44E-01	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	3.19E-01	1.02E-01	1.03E-01	1.71E-01	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.45E+01	1.94E+00	2.08E+00	3.22E-01	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	1.61E+00	3.46E+00	3.46E+00	6.69E+00	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	4.96E-01	1.34E-01	1.36E-01	6.83E-02	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	3.80E-01	1.07E-01	1.08E-01	8.83E-02	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	3.19E-01	1.02E-01	1.03E-01	1.71E-01	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	-2.16E-01	6.60E-01	6.60E-01	1.14E+00	pCi/g	
13-07027-15	TRG	AZBKGD-11-61-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	4.13E-01	1.60E-01	1.61E-01	2.43E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	4.76E-01	1.60E-01	1.62E-01	2.31E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	3.28E-01	1.30E-01	1.31E-01	1.22E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.49E+01	1.95E+00	2.09E+00	4.73E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	-7.37E-02	3.84E+00	3.84E+00	7.03E+00	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	6.01E-01	1.67E-01	1.70E-01	8.93E-02	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	3.75E-01	1.07E-01	1.09E-01	1.01E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	3.28E-01	1.30E-01	1.31E-01	1.22E-01	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	3.18E-01	7.49E-01	7.49E-01	1.33E+00	pCi/g	
13-07027-16	TRG	AZBKGD-11-62-130702	07/02/13 08:37	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	3.55E-01	1.35E-01	1.36E-01	1.55E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-07027					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL					
			Houston, TX 77056					Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Actinium-228	LANL ER-130 Modified	6.45E-01	2.06E-01	2.09E-01	2.47E-01	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Bismuth-214	LANL ER-130 Modified	5.20E-01	1.28E-01	1.31E-01	1.12E-01	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Potassium-40	LANL ER-130 Modified	1.56E+01	2.27E+00	2.41E+00	5.94E-01	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Protactinium-234m	LANL ER-130 Modified	4.06E-01	4.55E+00	4.55E+00	8.40E+00	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Lead-212	LANL ER-130 Modified	6.20E-01	1.54E-01	1.58E-01	9.98E-02	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Lead-214	LANL ER-130 Modified	5.09E-01	1.27E-01	1.30E-01	1.08E-01	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Radium-226	LANL ER-130 Modified	5.20E-01	1.28E-01	1.31E-01	1.12E-01	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Thorium-234	LANL ER-130 Modified	9.98E-02	7.53E-01	7.53E-01	1.31E+00	pCi/g	
13-07027-17	TRG	AZBKGD-12-61-130702	07/02/13 08:39	7/5/2013	7/30/2013	13-07027	Thallium-208	LANL ER-130 Modified	6.12E-01	2.40E-01	2.42E-01	3.35E-01	pCi/g	

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:					
			Kristie Warr					SDG:	13-07028				
			Weston Solutions, Inc.					Purchase Order:	0082623				
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL				
			Houston, TX 77056					Sample Matrix:	SO				
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07028-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g
13-07028-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g
13-07028-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Cobalt-60	LANL ER-130 Modified	1.34E+02	9.57E+00	1.18E+01	6.52E-01	pCi/g
13-07028-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Cesium-137	LANL ER-130 Modified	8.14E+01	8.18E+00	9.19E+00	4.88E-01	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	-1.84E-02	5.23E-02	5.23E-02	9.81E-02	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	-3.35E-02	1.04E-01	1.04E-01	1.97E-01	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	-3.71E-03	3.45E-02	3.45E-02	6.83E-02	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	-7.21E-02	2.04E-01	2.04E-01	3.71E-01	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	2.27E-01	1.82E+00	1.82E+00	3.68E+00	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	3.27E-02	3.52E-02	3.52E-02	3.64E-02	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	-1.84E-02	3.05E-02	3.05E-02	5.80E-02	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	-3.71E-03	3.45E-02	3.45E-02	6.83E-02	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	-1.45E-01	2.59E-01	2.59E-01	4.81E-01	pCi/g
13-07028-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	8.83E-03	4.95E-02	4.95E-02	1.00E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	9.16E-01	2.56E-01	2.60E-01	2.56E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	1.05E+00	5.57E-01	5.59E-01	6.35E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	7.16E-01	1.96E-01	1.99E-01	1.49E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.88E+01	2.50E+00	2.67E+00	5.18E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	5.19E-01	4.46E+00	4.46E+00	8.38E+00	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	9.94E-01	1.93E-01	2.00E-01	1.27E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	7.59E-01	1.64E-01	1.69E-01	1.46E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	7.16E-01	1.96E-01	1.99E-01	1.49E-01	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	1.83E+00	1.74E+00	1.74E+00	1.64E+00	pCi/g
13-07028-03	DUP	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	7.40E-01	1.50E-01	1.55E-01	2.04E-01	pCi/g

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07028		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	1.13E+00	2.46E-01	2.52E-01	3.42E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	7.30E-01	6.78E-01	6.79E-01	6.76E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	8.73E-01	1.82E-01	1.87E-01	1.58E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.96E+01	2.83E+00	3.00E+00	7.76E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	-7.20E-01	6.00E+00	6.00E+00	1.07E+01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	1.19E+00	2.18E-01	2.26E-01	1.21E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	7.60E-01	1.87E-01	1.91E-01	1.79E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	8.73E-01	1.82E-01	1.87E-01	1.58E-01	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	1.82E+00	1.79E+00	1.79E+00	1.45E+00	pCi/g			
13-07028-04	TRG	AZBKGD-13-61-130702	07/02/13 08:40	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	8.98E-01	2.16E-01	2.20E-01	2.24E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	9.33E-01	2.42E-01	2.47E-01	3.04E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	9.17E-01	6.80E-01	6.82E-01	6.37E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	7.93E-01	1.75E-01	1.79E-01	1.74E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	2.16E+01	2.99E+00	3.19E+00	6.18E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	-1.03E+00	5.98E+00	5.98E+00	1.06E+01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	1.20E+00	2.17E-01	2.25E-01	1.32E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	1.01E+00	1.79E-01	1.86E-01	1.54E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	7.93E-01	1.75E-01	1.79E-01	1.74E-01	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	1.73E+00	1.23E+00	1.24E+00	1.54E+00	pCi/g			
13-07028-05	TRG	AZBKGD-14-61-130702	07/02/13 08:42	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	9.23E-01	2.12E-01	2.17E-01	2.35E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	1.09E+00	2.67E-01	2.73E-01	2.99E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	9.07E-01	5.82E-01	5.84E-01	7.15E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	1.02E+00	1.88E-01	1.95E-01	1.45E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	2.12E+01	3.04E+00	3.23E+00	7.07E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	7.77E-01	5.65E+00	5.65E+00	1.04E+01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	1.23E+00	2.20E-01	2.29E-01	1.13E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	8.06E-01	1.71E-01	1.76E-01	1.68E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	1.02E+00	1.88E-01	1.95E-01	1.45E-01	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	5.73E-01	9.87E-01	9.87E-01	1.73E+00	pCi/g			
13-07028-06	TRG	AZBKGD-15-61-130702	07/02/13 08:44	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	1.00E+00	3.03E-01	3.07E-01	4.56E-01	pCi/g			

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07028		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	5.82E-01	1.56E-01	1.59E-01	1.96E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	5.34E-01	2.82E-01	2.84E-01	5.83E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	4.76E-01	1.20E-01	1.23E-01	1.21E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.56E+01	2.05E+00	2.20E+00	4.62E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	-6.82E-01	3.53E+00	3.53E+00	6.38E+00	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	5.86E-01	1.52E-01	1.55E-01	9.18E-02	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	4.29E-01	1.14E-01	1.16E-01	1.09E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	4.76E-01	1.20E-01	1.23E-01	1.21E-01	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	3.99E-01	7.75E-01	7.75E-01	1.38E+00	pCi/g			
13-07028-07	TRG	AZBKGD-16-61-130702	07/02/13 08:48	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	4.08E-01	1.24E-01	1.25E-01	1.53E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	6.89E-01	1.80E-01	1.83E-01	2.41E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	1.41E-01	2.98E-01	2.98E-01	5.74E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	4.16E-01	1.42E-01	1.43E-01	1.16E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.58E+01	2.30E+00	2.44E+00	6.13E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	2.68E+00	4.99E+00	5.00E+00	9.59E+00	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	6.50E-01	1.32E-01	1.36E-01	9.36E-02	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	4.84E-01	1.23E-01	1.25E-01	1.09E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	4.16E-01	1.42E-01	1.43E-01	1.16E-01	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	3.30E-01	7.73E-01	7.73E-01	1.36E+00	pCi/g			
13-07028-08	TRG	AZBKGD-17-61-130702	07/02/13 08:50	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	4.91E-01	1.64E-01	1.66E-01	3.12E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	8.95E-01	2.43E-01	2.48E-01	2.47E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	6.26E-01	4.81E-01	4.82E-01	5.91E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	8.67E-01	1.78E-01	1.84E-01	1.48E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	2.18E+01	2.85E+00	3.06E+00	7.17E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	1.16E+00	4.81E+00	4.81E+00	9.05E+00	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	1.10E+00	2.41E-01	2.48E-01	1.24E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	8.70E-01	1.99E-01	2.04E-01	2.93E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	8.67E-01	1.78E-01	1.84E-01	1.48E-01	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	-6.91E-02	1.05E+00	1.05E+00	1.82E+00	pCi/g			
13-07028-09	DO	AZBKGD-18-61-130702	07/02/13 08:53	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	1.00E+00	1.81E-01	1.88E-01	2.08E-01	pCi/g			

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-07028					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL					
			Houston, TX 77056					Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	6.71E-01	2.02E-01	2.05E-01	2.67E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	5.72E-01	4.31E-01	4.32E-01	5.04E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	6.59E-01	1.30E-01	1.34E-01	1.19E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.56E+01	2.11E+00	2.25E+00	5.96E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	2.99E-01	4.27E+00	4.27E+00	7.90E+00	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	6.72E-01	1.42E-01	1.46E-01	1.00E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	5.41E-01	1.42E-01	1.44E-01	1.25E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	6.59E-01	1.30E-01	1.34E-01	1.19E-01	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	3.63E-01	9.34E-01	9.34E-01	1.64E+00	pCi/g	
13-07028-10	TRG	AZBKGD-19-61-130702	07/02/13 08:58	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	6.69E-01	1.59E-01	1.63E-01	1.94E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Actinium-228	LANL ER-130 Modified	5.71E-01	1.72E-01	1.74E-01	2.47E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Bismuth-212	LANL ER-130 Modified	8.79E-01	4.20E-01	4.23E-01	5.23E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Bismuth-214	LANL ER-130 Modified	4.99E-01	1.18E-01	1.21E-01	1.06E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Potassium-40	LANL ER-130 Modified	1.89E+01	2.60E+00	2.78E+00	5.71E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Protactinium-234m	LANL ER-130 Modified	-3.72E-01	4.59E+00	4.59E+00	8.26E+00	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Lead-212	LANL ER-130 Modified	7.14E-01	1.40E-01	1.44E-01	9.55E-02	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Lead-214	LANL ER-130 Modified	5.43E-01	1.20E-01	1.23E-01	1.19E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Radium-226	LANL ER-130 Modified	4.99E-01	1.18E-01	1.21E-01	1.06E-01	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Thorium-234	LANL ER-130 Modified	5.32E-01	7.73E-01	7.73E-01	1.36E+00	pCi/g	
13-07028-11	TRG	AZBKGD-20-61-130702	07/02/13 09:01	7/5/2013	7/30/2013	13-07028	Thallium-208	LANL ER-130 Modified	5.30E-01	2.05E-01	2.07E-01	3.18E-01	pCi/g	

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07031		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07031-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07031-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Cobalt-60	LANL ER-130 Modified	1.38E+02	9.81E+00	1.21E+01	8.15E-01	pCi/g	
13-07031-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Cesium-137	LANL ER-130 Modified	8.27E+01	1.09E+01	1.17E+01	6.28E-01	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	3.22E-02	5.60E-02	5.60E-02	1.12E-01	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.06E-02	3.09E-02	3.09E-02	6.10E-02	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	-4.73E-03	1.32E-01	1.32E-01	3.10E-01	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	6.73E-01	1.47E+00	1.47E+00	3.22E+00	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.67E-03	2.42E-02	2.42E-02	4.26E-02	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	-2.80E-03	2.95E-02	2.95E-02	5.49E-02	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.06E-02	3.09E-02	3.09E-02	6.10E-02	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	-6.34E-02	2.99E-01	2.99E-01	5.69E-01	pCi/g	
13-07031-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	3.29E-03	3.90E-02	3.90E-02	7.10E-02	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.16E+00	2.49E-01	2.56E-01	3.08E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.04E+00	1.80E-01	1.87E-01	1.53E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.37E+01	2.97E+00	3.21E+00	7.19E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	-1.73E+00	5.19E+00	5.19E+00	9.01E+00	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.49E+00	2.58E-01	2.69E-01	1.30E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.16E+00	2.14E-01	2.22E-01	1.48E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.04E+00	1.80E-01	1.87E-01	1.53E-01	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	3.33E+00	1.93E+00	1.94E+00	1.64E+00	pCi/g	
13-07031-03	DUP	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.15E+00	1.99E-01	2.08E-01	2.21E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07031		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.25E+00	2.47E-01	2.55E-01	2.93E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.27E+00	1.95E-01	2.05E-01	1.58E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.26E+01	2.87E+00	3.10E+00	6.99E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	-1.81E+00	5.18E+00	5.18E+00	8.98E+00	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.64E+00	2.84E-01	2.96E-01	1.20E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.23E+00	2.03E-01	2.13E-01	1.54E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.27E+00	1.95E-01	2.05E-01	1.58E-01	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.48E+00	1.08E+00	1.08E+00	1.92E+00	pCi/g	
13-07031-04	DO	MCBKGD-01-61-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.25E+00	2.18E-01	2.27E-01	2.10E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.58E+00	3.20E-01	3.30E-01	3.56E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.47E+00	2.36E-01	2.48E-01	1.80E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.41E+01	3.37E+00	3.59E+00	7.92E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	4.56E+00	6.01E+00	6.01E+00	1.10E+01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.69E+00	2.95E-01	3.08E-01	1.40E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.35E+00	2.28E-01	2.38E-01	1.69E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.47E+00	2.36E-01	2.48E-01	1.80E-01	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	6.49E-01	1.10E+00	1.10E+00	1.91E+00	pCi/g	
13-07031-05	TRG	MCBKGD-01-62-130702	07/02/13 10:54	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.36E+00	3.52E-01	3.58E-01	5.30E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.79E+00	2.95E-01	3.09E-01	3.43E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.61E+00	2.21E-01	2.36E-01	1.60E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.97E+01	3.81E+00	4.10E+00	8.35E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	3.14E+00	5.95E+00	5.95E+00	1.14E+01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.95E+00	4.41E-01	4.52E-01	1.33E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.46E+00	3.18E-01	3.26E-01	1.77E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.61E+00	2.21E-01	2.36E-01	1.60E-01	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.91E+00	1.73E+00	1.73E+00	1.98E+00	pCi/g	
13-07031-06	TRG	MCBKGD-02-61-130702	07/02/13 10:58	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.80E+00	2.69E-01	2.84E-01	2.62E-01	pCi/g	

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								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.60E+00	3.36E-01	3.46E-01	3.91E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.24E+00	2.40E-01	2.49E-01	1.83E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.58E+01	3.57E+00	3.80E+00	7.88E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	2.04E+00	6.72E+00	6.72E+00	1.25E+01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.01E+00	3.51E-01	3.66E-01	1.52E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.41E+00	2.48E-01	2.58E-01	1.91E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.24E+00	2.40E-01	2.49E-01	1.83E-01	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	2.87E+00	1.99E+00	1.99E+00	1.76E+00	pCi/g	
13-07031-07	TRG	MCBKGD-03-61-130702	07/02/13 11:00	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.42E+00	4.01E-01	4.07E-01	5.68E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.49E+00	3.07E-01	3.16E-01	3.47E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.23E+00	2.45E-01	2.53E-01	3.91E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.68E+01	3.55E+00	3.81E+00	6.90E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	5.24E+00	6.04E+00	6.04E+00	1.13E+01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.03E+00	4.43E-01	4.55E-01	1.34E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.43E+00	2.91E-01	3.00E-01	1.83E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.23E+00	2.45E-01	2.53E-01	3.91E-01	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	3.14E-01	1.22E+00	1.22E+00	2.12E+00	pCi/g	
13-07031-08	TRG	MCBKGD-04-61-130702	07/02/13 11:02	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.60E+00	2.64E-01	2.76E-01	2.53E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	2.21E+00	3.46E-01	3.64E-01	3.79E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.65E+00	2.41E-01	2.55E-01	1.91E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	3.00E+01	3.78E+00	4.08E+00	7.76E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	1.87E+00	6.54E+00	6.54E+00	1.21E+01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.90E+00	3.25E-01	3.40E-01	1.61E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.74E+00	2.75E-01	2.89E-01	1.99E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.65E+00	2.41E-01	2.55E-01	1.91E-01	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	9.87E-01	1.42E+00	1.42E+00	2.49E+00	pCi/g	
13-07031-09	TRG	MCBKGD-05-61-130702	07/02/13 11:05	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.45E+00	2.54E-01	2.64E-01	2.80E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07031		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.11E+00	2.71E-01	2.77E-01	3.70E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.39E+00	3.80E-01	3.87E-01	4.21E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.01E+01	2.99E+00	3.17E+00	9.06E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	1.18E+00	6.68E+00	6.68E+00	1.24E+01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.37E+00	2.54E-01	2.63E-01	1.39E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	9.57E-01	1.98E-01	2.04E-01	1.93E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.39E+00	3.80E-01	3.87E-01	4.21E-01	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	-2.26E-02	1.07E+00	1.07E+00	1.85E+00	pCi/g	
13-07031-10	TRG	MCBKGD-06-61-130702	07/02/13 11:07	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.05E+00	3.70E-01	3.73E-01	5.35E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.66E+00	2.84E-01	2.97E-01	3.33E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.69E+00	2.41E-01	2.56E-01	1.61E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.87E+01	3.66E+00	3.94E+00	7.99E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	4.03E+00	5.93E+00	5.93E+00	1.06E+01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.88E+00	4.32E-01	4.43E-01	1.33E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.53E+00	3.15E-01	3.25E-01	1.77E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.69E+00	2.41E-01	2.56E-01	1.61E-01	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	2.44E+00	1.79E+00	1.80E+00	1.71E+00	pCi/g	
13-07031-11	TRG	MCBKGD-07-61-130702	07/02/13 11:10	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.55E+00	2.37E-01	2.50E-01	2.32E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.35E+00	2.75E-01	2.83E-01	2.99E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.35E+00	2.15E-01	2.25E-01	1.66E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.36E+01	3.10E+00	3.33E+00	7.99E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	1.83E+00	5.32E+00	5.32E+00	9.93E+00	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.73E+00	3.03E-01	3.16E-01	1.41E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.48E+00	2.32E-01	2.44E-01	1.66E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.35E+00	2.15E-01	2.25E-01	1.66E-01	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	2.61E+00	1.98E+00	1.98E+00	1.93E+00	pCi/g	
13-07031-12	TRG	MCBKGD-08-61-130702	07/02/13 11:12	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.55E+00	2.36E-01	2.49E-01	2.43E-01	pCi/g	

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			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07031		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.63E+00	3.30E-01	3.40E-01	4.84E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.72E+00	2.61E-01	2.75E-01	2.21E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.72E+01	3.79E+00	4.03E+00	8.73E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	2.53E+00	8.45E+00	8.45E+00	1.55E+01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.12E+00	3.74E-01	3.89E-01	1.68E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.47E+00	2.82E-01	2.92E-01	2.13E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.72E+00	2.61E-01	2.75E-01	2.21E-01	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.95E+00	1.35E+00	1.35E+00	2.38E+00	pCi/g	
13-07031-13	TRG	MCBKGD-09-61-130702	07/02/13 11:14	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.66E+00	4.45E-01	4.53E-01	6.37E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.59E+00	2.53E-01	2.65E-01	2.85E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.16E+00	2.11E-01	2.19E-01	3.23E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.26E+01	3.00E+00	3.21E+00	6.44E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	2.85E+00	4.64E+00	4.64E+00	8.96E+00	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.74E+00	3.85E-01	3.95E-01	1.17E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.36E+00	2.67E-01	2.76E-01	1.37E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.16E+00	2.11E-01	2.19E-01	3.23E-01	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.18E+00	9.73E-01	9.75E-01	1.72E+00	pCi/g	
13-07031-14	TRG	MCBKGD-10-61-130702	07/02/13 11:17	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.39E+00	2.10E-01	2.22E-01	1.92E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.89E+00	3.79E-01	3.91E-01	3.78E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.52E+00	2.42E-01	2.54E-01	1.97E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	3.09E+01	3.89E+00	4.20E+00	7.32E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	-8.28E-01	6.91E+00	6.91E+00	1.23E+01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.02E+00	3.44E-01	3.59E-01	1.68E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.67E+00	2.94E-01	3.06E-01	1.97E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.52E+00	2.42E-01	2.54E-01	1.97E-01	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	2.70E+00	2.42E+00	2.43E+00	2.25E+00	pCi/g	
13-07031-15	TRG	MCBKGD-11-61-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.81E+00	2.85E-01	3.00E-01	2.90E-01	pCi/g	

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			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07031		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.82E+00	2.76E-01	2.91E-01	3.49E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.37E+00	2.13E-01	2.24E-01	1.49E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.77E+01	3.57E+00	3.84E+00	6.55E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	1.35E+00	5.62E+00	5.62E+00	1.05E+01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	2.17E+00	4.80E-01	4.93E-01	1.23E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.64E+00	3.18E-01	3.29E-01	1.64E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.37E+00	2.13E-01	2.24E-01	1.49E-01	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.76E+00	1.65E+00	1.65E+00	1.80E+00	pCi/g	
13-07031-16	TRG	MCBKGD-11-62-130702	07/02/13 11:19	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.64E+00	2.43E-01	2.58E-01	2.35E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Actinium-228	LANL ER-130 Modified	1.49E+00	3.36E-01	3.45E-01	3.63E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Bismuth-214	LANL ER-130 Modified	1.35E+00	2.26E-01	2.36E-01	1.68E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Potassium-40	LANL ER-130 Modified	2.79E+01	3.46E+00	3.75E+00	7.87E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Protactinium-234m	LANL ER-130 Modified	4.71E+00	6.51E+00	6.52E+00	1.24E+01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Lead-212	LANL ER-130 Modified	1.78E+00	3.14E-01	3.27E-01	1.42E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Lead-214	LANL ER-130 Modified	1.38E+00	2.34E-01	2.44E-01	1.77E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Radium-226	LANL ER-130 Modified	1.35E+00	2.26E-01	2.36E-01	1.68E-01	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Thorium-234	LANL ER-130 Modified	1.34E+00	1.30E+00	1.30E+00	2.29E+00	pCi/g	
13-07031-17	TRG	MCBKGD-12-61-130702	07/02/13 11:21	7/5/2013	8/1/2013	13-07031	Thallium-208	LANL ER-130 Modified	1.73E+00	2.60E-01	2.74E-01	2.45E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07032		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07032-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00				pCi/g		
13-07032-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00				pCi/g		
13-07032-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Cobalt-60	LANL ER-130 Modified	1.37E+02	9.78E+00	1.21E+01	8.44E-01		pCi/g		
13-07032-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Cesium-137	LANL ER-130 Modified	8.42E+01	1.11E+01	1.19E+01	6.04E-01		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.44E-02	5.41E-02	5.41E-02	1.10E-01		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.73E-02	2.95E-02	2.95E-02	5.99E-02		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Potassium-40	LANL ER-130 Modified	-4.09E-02	1.53E-01	1.53E-01	3.25E-01		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	3.54E-01	1.26E+00	1.26E+00	2.82E+00		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Lead-212	LANL ER-130 Modified	-7.91E-03	2.45E-02	2.45E-02	4.14E-02		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Lead-214	LANL ER-130 Modified	-1.94E-02	2.64E-02	2.64E-02	4.59E-02		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Radium-226	LANL ER-130 Modified	1.73E-02	2.95E-02	2.95E-02	5.99E-02		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Thorium-234	LANL ER-130 Modified	-1.31E-01	2.88E-01	2.88E-01	5.47E-01		pCi/g		
13-07032-02	MBL	BLANK	07/05/13 00:00	7/5/2013	8/1/2013	13-07032	Thallium-208	LANL ER-130 Modified	-1.32E-02	3.67E-02	3.67E-02	6.80E-02		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.73E+00	3.29E-01	3.41E-01	4.18E-01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.56E+00	2.71E-01	2.82E-01	2.15E-01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.84E+01	3.96E+00	4.22E+00	1.08E+00		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	5.39E+00	7.26E+00	7.26E+00	1.42E+01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Lead-212	LANL ER-130 Modified	2.20E+00	3.77E-01	3.93E-01	1.65E-01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Lead-214	LANL ER-130 Modified	1.57E+00	2.90E-01	3.01E-01	2.16E-01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Radium-226	LANL ER-130 Modified	1.56E+00	2.71E-01	2.82E-01	2.15E-01		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Thorium-234	LANL ER-130 Modified	2.50E+00	2.01E+00	2.02E+00	2.00E+00		pCi/g		
13-07032-03	DUP	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Thallium-208	LANL ER-130 Modified	2.01E+00	4.55E-01	4.67E-01	6.73E-01		pCi/g		

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07032		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Actinium-228	LANL ER-130 Modified	2.04E+00	3.14E-01	3.31E-01	3.47E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.53E+00	2.55E-01	2.66E-01	1.92E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.79E+01	3.57E+00	3.84E+00	8.34E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	6.75E+00	7.71E+00	7.72E+00	1.06E+01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Lead-212	LANL ER-130 Modified	1.92E+00	3.41E-01	3.55E-01	1.61E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Lead-214	LANL ER-130 Modified	1.73E+00	2.80E-01	2.94E-01	1.80E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Radium-226	LANL ER-130 Modified	1.53E+00	2.55E-01	2.66E-01	1.92E-01	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Thorium-234	LANL ER-130 Modified	4.40E-01	1.39E+00	1.39E+00	2.41E+00	pCi/g	
13-07032-04	TRG	MCBKGD-13-61-130702	07/02/13 11:24	7/5/2013	8/1/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.61E+00	2.69E-01	2.82E-01	3.39E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.82E+00	4.40E-01	4.50E-01	3.95E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.43E+00	2.68E-01	2.77E-01	1.97E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.83E+01	4.08E+00	4.33E+00	1.15E+00	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	6.64E-02	8.14E+00	8.14E+00	1.46E+01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Lead-212	LANL ER-130 Modified	2.10E+00	3.59E-01	3.75E-01	1.62E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Lead-214	LANL ER-130 Modified	1.48E+00	2.81E-01	2.91E-01	2.15E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Radium-226	LANL ER-130 Modified	1.43E+00	2.68E-01	2.77E-01	1.97E-01	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Thorium-234	LANL ER-130 Modified	1.97E+00	1.85E+00	1.86E+00	2.01E+00	pCi/g	
13-07032-05	DO	MCBKGD-14-61-130702	07/02/13 11:27	7/5/2013	8/1/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.72E+00	4.51E-01	4.60E-01	6.50E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.71E+00	3.06E-01	3.18E-01	2.85E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.23E+00	2.53E-01	2.61E-01	3.68E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.74E+01	3.47E+00	3.75E+00	7.50E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	1.19E+00	5.92E+00	5.92E+00	1.09E+01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	1.79E+00	4.19E-01	4.29E-01	1.29E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.44E+00	2.87E-01	2.97E-01	1.54E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.23E+00	2.53E-01	2.61E-01	3.68E-01	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	7.41E-01	1.14E+00	1.14E+00	1.98E+00	pCi/g	
13-07032-06	TRG	MCBKGD-15-61-130702	07/02/13 11:29	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.36E+00	3.23E-01	3.30E-01	4.82E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07032		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.90E+00	3.38E-01	3.52E-01	3.64E-01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.48E+00	2.57E-01	2.68E-01	1.96E-01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.96E+01	3.82E+00	4.11E+00	1.06E+00	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	-7.52E-01	8.50E+00	8.50E+00	1.50E+01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	1.91E+00	3.35E-01	3.49E-01	1.74E-01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.39E+00	2.86E-01	2.95E-01	2.00E-01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.48E+00	2.57E-01	2.68E-01	1.96E-01	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	7.17E-01	1.48E+00	1.48E+00	2.59E+00	pCi/g	
13-07032-07	TRG	MCBKGD-16-61-130702	07/02/13 11:31	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.59E+00	2.69E-01	2.81E-01	3.09E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	2.15E+00	3.39E-01	3.56E-01	3.17E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.59E+00	2.56E-01	2.69E-01	1.70E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	3.26E+01	4.10E+00	4.43E+00	8.03E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	4.10E+00	6.16E+00	6.17E+00	1.20E+01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	1.96E+00	4.34E-01	4.45E-01	1.54E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.86E+00	3.44E-01	3.57E-01	1.83E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.59E+00	2.56E-01	2.69E-01	1.70E-01	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	1.75E+00	1.83E+00	1.83E+00	2.02E+00	pCi/g	
13-07032-08	TRG	MCBKGD-17-61-130702	07/02/13 11:34	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.42E+00	3.61E-01	3.68E-01	5.58E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.75E+00	3.08E-01	3.21E-01	3.58E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.30E+00	1.88E-01	1.99E-01	1.69E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.72E+01	3.40E+00	3.68E+00	7.26E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	-1.79E-01	6.92E+00	6.92E+00	1.23E+01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	1.87E+00	3.14E-01	3.28E-01	1.51E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.47E+00	2.51E-01	2.62E-01	1.76E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.30E+00	1.88E-01	1.99E-01	1.69E-01	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	3.10E+00	2.37E+00	2.38E+00	2.04E+00	pCi/g	
13-07032-09	TRG	MCBKGD-18-61-130702	07/02/13 11:36	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.33E+00	2.26E-01	2.36E-01	2.69E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07032		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.78E+00	2.95E-01	3.09E-01	2.42E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.45E+00	2.69E-01	2.79E-01	4.11E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	2.97E+01	3.83E+00	4.12E+00	8.77E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	-5.39E-01	5.22E+00	5.22E+00	9.58E+00	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	2.01E+00	4.77E-01	4.88E-01	1.49E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.52E+00	3.15E-01	3.24E-01	1.63E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.45E+00	2.69E-01	2.79E-01	4.11E-01	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	1.25E+00	1.25E+00	1.25E+00	2.20E+00	pCi/g	
13-07032-10	TRG	MCBKGD-19-61-130702	07/02/13 11:48	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.73E+00	3.69E-01	3.79E-01	5.56E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Actinium-228	LANL ER-130 Modified	1.82E+00	3.06E-01	3.19E-01	3.78E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Bismuth-214	LANL ER-130 Modified	1.64E+00	2.49E-01	2.63E-01	1.93E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Potassium-40	LANL ER-130 Modified	3.13E+01	3.92E+00	4.24E+00	7.57E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Protactinium-234m	LANL ER-130 Modified	-3.59E+00	7.12E+00	7.12E+00	1.21E+01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Lead-212	LANL ER-130 Modified	2.33E+00	4.32E-01	4.48E-01	1.64E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Lead-214	LANL ER-130 Modified	1.62E+00	2.64E-01	2.77E-01	2.05E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Radium-226	LANL ER-130 Modified	1.64E+00	2.49E-01	2.63E-01	1.93E-01	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Thorium-234	LANL ER-130 Modified	3.25E+00	2.41E+00	2.41E+00	2.28E+00	pCi/g	
13-07032-11	TRG	MCBKGD-20-61-130702	07/02/13 11:41	7/5/2013	8/2/2013	13-07032	Thallium-208	LANL ER-130 Modified	1.58E+00	2.70E-01	2.82E-01	2.68E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07026					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:	SO								
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07026-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07026-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07026-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Cobalt-60	LANL ER-130 Modified	1.37E+02	9.40E+00	1.17E+01	6.18E-01	pCi/g	
13-07026-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Cesium-137	LANL ER-130 Modified	8.23E+01	8.39E+00	9.39E+00	4.75E-01	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	-1.28E-02	5.93E-02	5.93E-02	1.07E-01	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	3.73E-03	3.33E-02	3.33E-02	6.84E-02	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	5.86E-02	2.23E-01	2.23E-01	4.83E-01	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	-1.01E+00	1.72E+00	1.72E+00	3.04E+00	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	2.46E-02	3.01E-02	3.01E-02	5.77E-02	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	1.66E-02	3.44E-02	3.44E-02	6.44E-02	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	3.73E-03	3.33E-02	3.33E-02	6.84E-02	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	3.16E-02	3.14E-01	3.14E-01	5.88E-01	pCi/g	
13-07026-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	-1.90E-02	4.67E-02	4.68E-02	8.87E-02	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.20E+00	2.78E-01	2.84E-01	3.52E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	9.04E-01	1.94E-01	1.99E-01	1.94E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.09E+01	3.12E+00	3.30E+00	7.40E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	-4.41E-01	6.60E+00	6.60E+00	1.19E+01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.34E+00	2.46E-01	2.56E-01	1.49E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	1.09E+00	1.89E-01	1.97E-01	1.92E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	9.04E-01	1.94E-01	1.99E-01	1.94E-01	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	1.84E-01	1.09E+00	1.09E+00	1.89E+00	pCi/g	
13-07026-03	DUP	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	1.00E+00	2.18E-01	2.24E-01	2.36E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.08E+00	3.02E-01	3.07E-01	3.64E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	1.04E+00	2.04E-01	2.10E-01	1.53E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.33E+01	3.35E+00	3.56E+00	9.16E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	2.30E+00	6.14E+00	6.14E+00	1.18E+01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.23E+00	2.33E-01	2.41E-01	1.43E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	1.02E+00	2.02E-01	2.08E-01	1.76E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	1.04E+00	2.04E-01	2.10E-01	1.53E-01	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	1.70E+00	1.72E+00	1.73E+00	1.83E+00	pCi/g	
13-07026-04	DO	SVBKGD-13-61-130701	07/01/13 15:00	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	8.61E-01	2.02E-01	2.06E-01	2.91E-01	pCi/g	

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<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07026					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:	SO								
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.27E+00	2.23E-01	2.32E-01	2.14E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	8.89E-01	1.64E-01	1.71E-01	1.39E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.21E+01	2.92E+00	3.13E+00	6.21E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	-2.91E-01	4.63E+00	4.63E+00	8.48E+00	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.24E+00	2.98E-01	3.04E-01	1.19E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	9.88E-01	2.22E-01	2.28E-01	1.43E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	8.89E-01	1.64E-01	1.71E-01	1.39E-01	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	-2.16E-01	9.85E-01	9.85E-01	1.69E+00	pCi/g	
13-07026-05	TRG	SVBKGD-14-61-130701	07/01/13 15:04	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	9.87E-01	1.87E-01	1.94E-01	1.83E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	9.91E-01	3.26E-01	3.30E-01	5.82E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	8.75E-01	1.86E-01	1.91E-01	1.71E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.26E+01	3.05E+00	3.27E+00	6.19E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	-1.56E+00	5.46E+00	5.46E+00	9.81E+00	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.26E+00	3.10E-01	3.16E-01	1.28E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	9.93E-01	2.32E-01	2.38E-01	1.56E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	8.75E-01	1.86E-01	1.91E-01	1.71E-01	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	9.93E-01	1.12E+00	1.12E+00	1.99E+00	pCi/g	
13-07026-06	TRG	SVBKGD-15-61-130701	07/01/13 15:08	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	1.01E+00	2.07E-01	2.13E-01	2.26E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.36E+00	2.85E-01	2.93E-01	3.35E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	1.09E+00	2.06E-01	2.13E-01	1.58E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.44E+01	3.10E+00	3.35E+00	7.39E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	2.52E+00	5.99E+00	5.99E+00	1.13E+01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.59E+00	2.86E-01	2.97E-01	1.37E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	1.13E+00	2.19E-01	2.27E-01	1.69E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	1.09E+00	2.06E-01	2.13E-01	1.58E-01	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	3.93E-01	1.26E+00	1.26E+00	2.19E+00	pCi/g	
13-07026-07	TRG	SVBKGD-16-61-130701	07/01/13 15:13	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	1.20E+00	2.13E-01	2.21E-01	2.56E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07026					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.20E+00	2.70E-01	2.77E-01	3.03E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	8.31E-01	1.85E-01	1.90E-01	1.59E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.22E+01	3.04E+00	3.25E+00	8.28E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	1.47E+00	5.90E+00	5.90E+00	1.09E+01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.08E+00	2.02E-01	2.10E-01	1.21E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	8.64E-01	1.85E-01	1.90E-01	1.49E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	8.31E-01	1.85E-01	1.90E-01	1.59E-01	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	2.11E-01	1.01E+00	1.01E+00	1.74E+00	pCi/g	
13-07026-08	TRG	SVBKGD-17-61-130701	07/01/13 15:15	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	8.95E-01	1.97E-01	2.02E-01	2.45E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	9.43E-01	2.36E-01	2.41E-01	3.42E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	1.20E+00	2.13E-01	2.21E-01	3.71E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	2.34E+01	3.14E+00	3.36E+00	6.18E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	7.91E-01	4.92E+00	4.92E+00	9.42E+00	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.23E+00	3.05E-01	3.11E-01	1.19E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	1.13E+00	2.52E-01	2.59E-01	1.59E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	1.20E+00	2.13E-01	2.21E-01	3.71E-01	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	8.84E-01	1.16E+00	1.16E+00	2.05E+00	pCi/g	
13-07026-09	TRG	SVBKGD-18-61-130701	07/01/13 15:18	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	9.41E-01	2.10E-01	2.15E-01	2.07E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	7.78E-01	2.21E-01	2.24E-01	2.34E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	7.28E-01	1.58E-01	1.63E-01	1.34E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	1.77E+01	2.30E+00	2.47E+00	5.68E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	1.90E+00	4.00E+00	4.00E+00	7.81E+00	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	8.83E-01	1.72E-01	1.78E-01	1.12E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	7.07E-01	1.57E-01	1.61E-01	1.33E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	7.28E-01	1.58E-01	1.63E-01	1.34E-01	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	1.75E-01	9.45E-01	9.45E-01	1.65E+00	pCi/g	
13-07026-10	TRG	SVBKGD-19-61-130701	07/01/13 15:20	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	7.49E-01	1.80E-01	1.84E-01	1.86E-01	pCi/g	

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-07026					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL					
			Houston, TX 77056					Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Actinium-228	LANL ER-130 Modified	1.29E+00	3.48E-01	3.54E-01	6.50E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Bismuth-214	LANL ER-130 Modified	7.43E-01	1.96E-01	1.99E-01	1.80E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Potassium-40	LANL ER-130 Modified	1.98E+01	2.86E+00	3.03E+00	8.38E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Protactinium-234m	LANL ER-130 Modified	3.52E+00	6.83E+00	6.83E+00	1.28E+01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Lead-212	LANL ER-130 Modified	1.22E+00	2.31E-01	2.39E-01	1.24E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Lead-214	LANL ER-130 Modified	8.56E-01	1.93E-01	1.98E-01	1.55E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Radium-226	LANL ER-130 Modified	7.43E-01	1.96E-01	1.99E-01	1.80E-01	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Thorium-234	LANL ER-130 Modified	5.16E-01	1.08E+00	1.08E+00	1.87E+00	pCi/g	
13-07026-11	TRG	SVBKGD-20-61-130701	07/01/13 15:22	7/5/2013	7/29/2013	13-07026	Thallium-208	LANL ER-130 Modified	1.11E+00	2.32E-01	2.39E-01	2.07E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="text-align: center;">Eberline Analytical</h1> <h2 style="text-align: center;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:		13-07025				
								Purchase Order:		0082623				
								Analysis Category:		ENVIRONMENTAL				
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07025-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07025-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07025-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Cobalt-60	LANL ER-130 Modified	1.37E+02	9.39E+00	1.17E+01	6.20E-01	pCi/g	
13-07025-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Cesium-137	LANL ER-130 Modified	8.27E+01	8.43E+00	9.44E+00	4.73E-01	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	-2.18E-02	5.77E-02	5.78E-02	1.01E-01	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	1.10E-02	3.43E-02	3.43E-02	7.11E-02	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.79E-03	1.67E-01	1.67E-01	3.96E-01	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-6.09E-01	1.93E+00	1.93E+00	3.19E+00	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	-9.26E-03	2.93E-02	2.93E-02	5.25E-02	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	-2.09E-02	3.63E-02	3.63E-02	6.01E-02	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	1.10E-02	3.43E-02	3.43E-02	7.11E-02	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	1.17E-01	3.23E-01	3.23E-01	6.10E-01	pCi/g	
13-07025-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	9.26E-03	5.05E-02	5.05E-02	1.00E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	8.07E-01	3.35E-01	3.38E-01	5.91E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.09E-01	2.14E-01	2.18E-01	1.73E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.17E+01	3.15E+00	3.34E+00	1.03E+00	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	6.12E+00	6.92E+00	6.93E+00	1.36E+01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.42E+00	2.55E-01	2.66E-01	1.39E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.01E+00	1.92E-01	1.99E-01	1.68E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.09E-01	2.14E-01	2.18E-01	1.73E-01	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	3.93E-04	1.16E+00	1.16E+00	1.98E+00	pCi/g	
13-07025-03	DUP	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.06E+00	2.24E-01	2.31E-01	2.63E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.08E+00	2.13E-01	2.20E-01	2.45E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.74E-01	2.30E-01	2.36E-01	3.18E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.19E+01	2.88E+00	3.09E+00	5.89E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	4.31E+00	4.83E+00	4.84E+00	9.60E+00	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.28E+00	3.13E-01	3.20E-01	1.12E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.07E+00	2.28E-01	2.35E-01	1.44E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.74E-01	2.30E-01	2.36E-01	3.18E-01	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	2.39E+00	1.82E+00	1.83E+00	1.44E+00	pCi/g	
13-07025-04	TRG	SVBKGD-01-61-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.08E+00	2.23E-01	2.30E-01	2.00E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

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			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07025					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.52E+00	3.12E-01	3.21E-01	2.84E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	1.07E+00	1.94E-01	2.01E-01	1.55E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.00E+01	2.75E+00	2.94E+00	7.49E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	9.27E-01	5.50E+00	5.50E+00	1.02E+01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.39E+00	2.44E-01	2.55E-01	1.33E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.06E+00	2.43E-01	2.49E-01	1.55E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	1.07E+00	1.94E-01	2.01E-01	1.55E-01	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	7.81E-01	1.19E+00	1.19E+00	2.10E+00	pCi/g	
13-07025-05	TRG	SVBKGD-01-62-130701	07/01/13 14:27	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.07E+00	2.10E-01	2.17E-01	2.59E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.02E+00	2.71E-01	2.76E-01	4.08E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.70E-01	1.72E-01	1.78E-01	1.71E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.24E+01	3.24E+00	3.44E+00	8.87E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	5.13E+00	6.25E+00	6.25E+00	1.24E+01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.26E+00	2.33E-01	2.42E-01	1.27E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.04E-01	1.97E-01	2.03E-01	1.63E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.70E-01	1.72E-01	1.78E-01	1.71E-01	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	-1.38E-01	1.11E+00	1.11E+00	1.91E+00	pCi/g	
13-07025-06	DO	SVBKGD-02-61-130701	07/01/13 14:30	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	8.99E-01	2.35E-01	2.39E-01	2.50E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	8.43E-01	3.20E-01	3.23E-01	4.98E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.26E-01	1.90E-01	1.94E-01	2.92E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.09E+01	2.78E+00	2.98E+00	5.53E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-4.26E-02	4.53E+00	4.53E+00	8.40E+00	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.18E+00	2.80E-01	2.87E-01	1.14E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.28E-01	2.05E-01	2.10E-01	1.34E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.26E-01	1.90E-01	1.94E-01	2.92E-01	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	1.33E+00	1.38E+00	1.38E+00	1.49E+00	pCi/g	
13-07025-07	TRG	SVBKGD-03-61-130701	07/01/13 14:32	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.33E+00	2.83E-01	2.91E-01	4.35E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-07025					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.13E+00	3.29E-01	3.34E-01	3.58E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.56E-01	1.91E-01	1.97E-01	1.89E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.13E+01	2.89E+00	3.09E+00	8.09E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-6.73E+00	6.66E+00	6.67E+00	1.06E+01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.23E+00	2.34E-01	2.42E-01	1.46E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.06E+00	2.02E-01	2.10E-01	1.89E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.56E-01	1.91E-01	1.97E-01	1.89E-01	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	3.25E+00	2.45E+00	2.46E+00	1.96E+00	pCi/g	
13-07025-08	TRG	SVBKGD-04-61-130701	07/01/13 14:34	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	9.87E-01	2.23E-01	2.29E-01	2.54E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.32E+00	2.97E-01	3.05E-01	5.80E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.88E-01	2.03E-01	2.09E-01	1.68E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.33E+01	3.23E+00	3.44E+00	6.14E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	1.14E+01	7.64E+00	7.66E+00	9.01E+00	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.15E+00	2.77E-01	2.83E-01	1.15E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.99E-01	2.26E-01	2.31E-01	1.60E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.88E-01	2.03E-01	2.09E-01	1.68E-01	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	9.83E-01	1.09E+00	1.10E+00	1.95E+00	pCi/g	
13-07025-09	TRG	SVBKGD-05-61-130701	07/01/13 14:37	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.03E+00	2.76E-01	2.81E-01	4.51E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.41E+00	2.57E-01	2.67E-01	2.43E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.43E-01	2.00E-01	2.06E-01	1.73E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.07E+01	2.73E+00	2.93E+00	6.87E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-1.04E+00	5.78E+00	5.78E+00	1.02E+01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.43E+00	2.59E-01	2.69E-01	1.37E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.13E+00	2.06E-01	2.14E-01	1.58E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.43E-01	2.00E-01	2.06E-01	1.73E-01	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	4.36E-01	1.23E+00	1.23E+00	2.00E+00	pCi/g	
13-07025-10	TRG	SVBKGD-06-61-130701	07/01/13 14:40	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.12E+00	2.14E-01	2.21E-01	2.48E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07025		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.47E+00	5.69E-01	5.74E-01	8.98E-01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	1.45E+00	2.91E-01	3.00E-01	2.45E-01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.50E+01	3.99E+00	4.20E+00	1.24E+00	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	3.69E+00	8.36E+00	8.36E+00	1.61E+01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.84E+00	3.41E-01	3.54E-01	1.84E-01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.42E+00	3.10E-01	3.18E-01	2.42E-01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	1.45E+00	2.91E-01	3.00E-01	2.45E-01	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	6.45E-01	1.47E+00	1.47E+00	2.58E+00	pCi/g			
13-07025-11	TRG	SVBKGD-07-61-130701	07/01/13 14:43	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.43E+00	2.81E-01	2.90E-01	3.49E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.18E+00	3.43E-01	3.48E-01	6.11E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.03E-01	2.07E-01	2.12E-01	3.61E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.24E+01	3.16E+00	3.36E+00	8.92E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	1.64E+00	5.39E+00	5.39E+00	1.04E+01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.19E+00	3.00E-01	3.06E-01	1.34E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.81E-01	2.47E-01	2.52E-01	1.67E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.03E-01	2.07E-01	2.12E-01	3.61E-01	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	6.86E-01	1.21E+00	1.21E+00	2.13E+00	pCi/g			
13-07025-12	TRG	SVBKGD-08-61-130701	07/01/13 14:45	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.15E+00	3.01E-01	3.07E-01	4.82E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	8.34E-01	2.03E-01	2.07E-01	2.88E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.03E-01	1.41E-01	1.47E-01	1.44E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	1.78E+01	2.35E+00	2.52E+00	6.32E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-1.68E-01	4.45E+00	4.45E+00	8.11E+00	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	9.91E-01	1.88E-01	1.95E-01	1.17E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.20E-01	1.82E-01	1.88E-01	1.29E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.03E-01	1.41E-01	1.47E-01	1.44E-01	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	8.21E-01	1.02E+00	1.02E+00	1.81E+00	pCi/g			
13-07025-13	TRG	SVBKGD-09-61-130701	07/01/13 14:47	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	7.25E-01	1.74E-01	1.78E-01	1.98E-01	pCi/g			

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07025		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	9.99E-01	2.64E-01	2.69E-01	3.39E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	9.30E-01	1.68E-01	1.75E-01	1.46E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.07E+01	2.96E+00	3.15E+00	7.64E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	3.08E+00	5.86E+00	5.86E+00	1.12E+01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.15E+00	2.11E-01	2.19E-01	1.13E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.61E-01	1.84E-01	1.90E-01	1.48E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	9.30E-01	1.68E-01	1.75E-01	1.46E-01	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	2.29E+00	1.80E+00	1.80E+00	1.43E+00	pCi/g			
13-07025-14	TRG	SVBKGD-10-61-130701	07/01/13 14:49	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	9.82E-01	1.84E-01	1.91E-01	2.27E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	9.46E-01	1.88E-01	1.94E-01	2.09E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.11E-01	1.88E-01	1.93E-01	2.94E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	1.91E+01	2.55E+00	2.73E+00	4.72E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	-2.77E+00	4.47E+00	4.48E+00	7.71E+00	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.15E+00	2.81E-01	2.87E-01	1.03E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.06E+00	2.21E-01	2.28E-01	1.39E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.11E-01	1.88E-01	1.93E-01	2.94E-01	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	7.40E-01	9.51E-01	9.52E-01	1.68E+00	pCi/g			
13-07025-15	TRG	SVBKGD-11-61-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	9.57E-01	2.36E-01	2.41E-01	3.70E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.10E+00	1.94E-01	2.02E-01	2.17E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	8.66E-01	1.68E-01	1.74E-01	1.42E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	1.83E+01	2.40E+00	2.58E+00	6.20E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	1.94E+00	5.03E+00	5.03E+00	9.39E+00	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.15E+00	2.05E-01	2.13E-01	1.11E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	1.03E+00	1.63E-01	1.71E-01	1.19E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	8.66E-01	1.68E-01	1.74E-01	1.42E-01	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	1.40E+00	1.53E+00	1.53E+00	1.61E+00	pCi/g			
13-07025-16	TRG	SVBKGD-11-62-130701	07/01/13 14:55	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	9.45E-01	1.68E-01	1.75E-01	2.01E-01	pCi/g			

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-07025					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700 Houston, TX 77056					Analysis Category:	ENVIRONMENTAL					
								Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Actinium-228	LANL ER-130 Modified	1.59E+00	4.10E-01	4.18E-01	4.02E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Bismuth-214	LANL ER-130 Modified	1.22E+00	2.36E-01	2.44E-01	2.30E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Potassium-40	LANL ER-130 Modified	2.52E+01	3.79E+00	4.01E+00	7.52E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Protactinium-234m	LANL ER-130 Modified	7.95E+00	7.93E+00	7.94E+00	1.63E+01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Lead-212	LANL ER-130 Modified	1.57E+00	2.96E-01	3.07E-01	1.75E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Lead-214	LANL ER-130 Modified	9.78E-01	2.68E-01	2.73E-01	2.42E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Radium-226	LANL ER-130 Modified	1.22E+00	2.36E-01	2.44E-01	2.30E-01	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Thorium-234	LANL ER-130 Modified	1.03E+00	1.43E+00	1.43E+00	2.52E+00	pCi/g	
13-07025-17	TRG	SVBKGD-12-61-130701	07/01/13 14:57	7/5/2013	7/29/2013	13-07025	Thallium-208	LANL ER-130 Modified	1.06E+00	2.73E-01	2.78E-01	3.11E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07030						
								Purchase Order: 0082623						
								Analysis Category: ENVIRONMENTAL						
					Sample Matrix: SO									
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07030-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07030-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07030-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Cobalt-60	LANL ER-130 Modified	1.37E+02	9.74E+00	1.20E+01	6.51E-01	pCi/g	
13-07030-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Cesium-137	LANL ER-130 Modified	8.34E+01	8.38E+00	9.41E+00	5.01E-01	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Actinium-228	LANL ER-130 Modified	-9.26E-03	4.22E-02	4.22E-02	8.44E-02	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Bismuth-214	LANL ER-130 Modified	2.53E-02	3.25E-02	3.25E-02	6.59E-02	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Potassium-40	LANL ER-130 Modified	-9.84E-02	1.39E-01	1.39E-01	2.82E-01	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	-6.07E-02	1.53E+00	1.53E+00	2.90E+00	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Lead-212	LANL ER-130 Modified	-3.93E-03	2.41E-02	2.41E-02	4.14E-02	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Lead-214	LANL ER-130 Modified	2.07E-02	2.76E-02	2.76E-02	5.49E-02	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Radium-226	LANL ER-130 Modified	2.53E-02	3.25E-02	3.25E-02	6.59E-02	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Thorium-234	LANL ER-130 Modified	1.68E-01	2.91E-01	2.91E-01	5.78E-01	pCi/g	
13-07030-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/31/2013	13-07030	Thallium-208	LANL ER-130 Modified	8.09E-03	4.01E-02	4.01E-02	7.86E-02	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	9.96E-01	2.26E-01	2.32E-01	2.51E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	8.92E-01	1.47E-01	1.54E-01	1.22E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.93E+01	2.54E+00	2.72E+00	5.02E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	4.59E+00	4.50E+00	4.51E+00	9.03E+00	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	1.10E+00	2.69E-01	2.74E-01	1.12E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	1.00E+00	2.16E-01	2.22E-01	1.22E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	8.92E-01	1.47E-01	1.54E-01	1.22E-01	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	7.64E-02	9.26E-01	9.26E-01	1.60E+00	pCi/g	
13-07030-03	DUP	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	8.81E-01	1.68E-01	1.74E-01	1.70E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07030		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	9.02E-01	2.32E-01	2.36E-01	4.73E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	8.45E-01	1.64E-01	1.70E-01	1.22E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.69E+01	2.30E+00	2.46E+00	5.68E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	2.22E+00	4.02E+00	4.03E+00	7.93E+00	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	1.14E+00	2.78E-01	2.84E-01	1.03E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	9.10E-01	1.93E-01	1.98E-01	1.32E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	8.45E-01	1.64E-01	1.70E-01	1.22E-01	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	1.37E+00	9.23E-01	9.26E-01	1.65E+00	pCi/g	
13-07030-04	DO	SGBKGD-13-61-130701	07/01/13 10:02	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	1.01E+00	1.76E-01	1.83E-01	1.80E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	7.14E-01	2.06E-01	2.09E-01	2.46E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	6.09E-01	1.36E-01	1.39E-01	1.11E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.62E+01	2.18E+00	2.34E+00	4.37E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	3.06E+00	4.39E+00	4.39E+00	8.53E+00	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	8.21E-01	1.58E-01	1.63E-01	9.89E-02	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	6.22E-01	1.41E-01	1.45E-01	1.21E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	6.09E-01	1.36E-01	1.39E-01	1.11E-01	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	8.71E-01	9.94E-01	9.95E-01	1.43E+00	pCi/g	
13-07030-05	TRG	SGBKGD-14-61-130701	07/01/13 10:07	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	5.40E-01	1.41E-01	1.44E-01	1.76E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	6.78E-01	1.78E-01	1.81E-01	2.19E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	6.23E-01	1.29E-01	1.33E-01	1.17E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.51E+01	2.00E+00	2.15E+00	5.31E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	8.37E-01	4.30E+00	4.30E+00	7.97E+00	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	7.71E-01	1.75E-01	1.79E-01	8.94E-02	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	5.30E-01	1.43E-01	1.45E-01	1.15E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	6.23E-01	1.29E-01	1.33E-01	1.17E-01	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	4.63E-01	8.42E-01	8.42E-01	1.49E+00	pCi/g	
13-07030-06	TRG	SGBKGD-15-61-130701	07/01/13 10:10	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	6.43E-01	1.22E-01	1.27E-01	1.60E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:							
			Kristie Warr					SDG:	13-07030						
			Weston Solutions, Inc.					Purchase Order:	0082623						
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL						
			Houston, TX 77056					Sample Matrix:	SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	7.52E-01	2.15E-01	2.18E-01	2.69E-01	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	6.12E-01	1.90E-01	1.93E-01	2.74E-01	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.39E+01	2.10E+00	2.21E+00	4.10E-01	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	2.86E+00	5.36E+00	5.36E+00	9.45E+00	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	9.41E-01	1.78E-01	1.84E-01	9.76E-02	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	6.99E-01	1.53E-01	1.57E-01	1.31E-01	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	6.12E-01	1.90E-01	1.93E-01	2.74E-01	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	3.88E-01	8.32E-01	8.32E-01	1.37E+00	pCi/g		
13-07030-07	TRG	SGBKGD-16-61-130701	07/01/13 10:12	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	7.82E-01	2.34E-01	2.37E-01	3.77E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	8.54E-01	1.71E-01	1.76E-01	2.01E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	6.76E-01	1.65E-01	1.68E-01	2.44E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.65E+01	2.21E+00	2.36E+00	4.64E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	4.81E+00	3.20E+00	3.20E+00	4.99E+00	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	7.75E-01	1.87E-01	1.91E-01	9.36E-02	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	7.72E-01	1.69E-01	1.73E-01	1.12E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	6.76E-01	1.65E-01	1.68E-01	2.44E-01	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	1.50E-01	8.11E-01	8.11E-01	1.41E+00	pCi/g		
13-07030-08	TRG	SGBKGD-17-61-130701	07/01/13 10:14	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	6.82E-01	1.56E-01	1.60E-01	1.56E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	9.59E-01	2.07E-01	2.12E-01	2.70E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	7.76E-01	1.55E-01	1.60E-01	1.46E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.78E+01	2.32E+00	2.50E+00	6.34E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	-3.98E-01	4.44E+00	4.44E+00	8.05E+00	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	1.11E+00	2.07E-01	2.15E-01	1.11E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	7.75E-01	1.61E-01	1.66E-01	1.36E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	7.76E-01	1.55E-01	1.60E-01	1.46E-01	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	2.26E+00	1.64E+00	1.64E+00	1.58E+00	pCi/g		
13-07030-09	TRG	SGBKGD-18-61-130701	07/01/13 10:17	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	9.05E-01	1.63E-01	1.69E-01	2.17E-01	pCi/g		

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07030		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	7.74E-01	1.97E-01	2.01E-01	2.86E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	7.21E-01	1.62E-01	1.66E-01	1.45E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.57E+01	2.34E+00	2.47E+00	7.68E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	-3.90E+00	5.46E+00	5.46E+00	9.01E+00	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	9.22E-01	1.79E-01	1.85E-01	1.07E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	6.44E-01	1.58E-01	1.61E-01	1.46E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	7.21E-01	1.62E-01	1.66E-01	1.45E-01	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	4.66E-01	8.40E-01	8.40E-01	1.48E+00	pCi/g	
13-07030-10	TRG	SGBKGD-19-61-130701	07/01/13 10:20	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	9.10E-01	3.18E-01	3.21E-01	3.94E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Actinium-228	LANL ER-130 Modified	7.41E-01	1.61E-01	1.65E-01	2.05E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Bismuth-214	LANL ER-130 Modified	5.85E-01	1.45E-01	1.48E-01	2.35E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Potassium-40	LANL ER-130 Modified	1.64E+01	2.22E+00	2.37E+00	5.14E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Protactinium-234m	LANL ER-130 Modified	2.82E+00	3.82E+00	3.82E+00	7.63E+00	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Lead-212	LANL ER-130 Modified	7.90E-01	1.89E-01	1.93E-01	9.48E-02	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Lead-214	LANL ER-130 Modified	6.64E-01	1.52E-01	1.56E-01	1.14E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Radium-226	LANL ER-130 Modified	5.85E-01	1.45E-01	1.48E-01	2.35E-01	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Thorium-234	LANL ER-130 Modified	-1.21E-01	8.07E-01	8.07E-01	1.40E+00	pCi/g	
13-07030-11	TRG	SGBKGD-20-61-130701	07/01/13 10:22	7/5/2013	8/1/2013	13-07030	Thallium-208	LANL ER-130 Modified	6.11E-01	1.38E-01	1.41E-01	1.55E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07029		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Cobalt-60	LANL ER-130 Modified	1.32E+02	5.29E+00			pCi/g	
13-07029-01	LCS	KNOWN	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Cesium-137	LANL ER-130 Modified	8.04E+01	3.22E+00			pCi/g	
13-07029-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Cobalt-60	LANL ER-130 Modified	1.32E+02	9.43E+00	1.16E+01	6.67E-01	pCi/g	
13-07029-01	LCS	SPIKE	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Cesium-137	LANL ER-130 Modified	8.13E+01	8.16E+00	9.17E+00	4.96E-01	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Actinium-228	LANL ER-130 Modified	1.43E-02	6.27E-02	6.27E-02	1.27E-01	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Bismuth-214	LANL ER-130 Modified	-8.85E-03	3.52E-02	3.52E-02	6.82E-02	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.18E-01	1.60E-01	1.60E-01	3.90E-01	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	9.31E-01	1.67E+00	1.67E+00	3.72E+00	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Lead-212	LANL ER-130 Modified	-1.50E-02	2.71E-02	2.71E-02	4.51E-02	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Lead-214	LANL ER-130 Modified	-3.04E-02	3.20E-02	3.21E-02	5.81E-02	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Radium-226	LANL ER-130 Modified	-8.85E-03	3.52E-02	3.52E-02	6.82E-02	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Thorium-234	LANL ER-130 Modified	-1.88E-01	2.41E-01	2.41E-01	4.48E-01	pCi/g	
13-07029-02	MBL	BLANK	07/05/13 00:00	7/5/2013	7/30/2013	13-07029	Thallium-208	LANL ER-130 Modified	-4.59E-02	4.40E-02	4.41E-02	7.53E-02	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	6.46E-01	2.07E-01	2.10E-01	3.53E-01	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	5.73E-01	1.22E-01	1.25E-01	8.90E-02	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.37E+01	1.89E+00	2.02E+00	4.33E-01	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-3.32E+00	3.36E+00	3.37E+00	5.54E+00	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.10E-01	1.79E-01	1.83E-01	8.42E-02	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.45E-01	1.26E-01	1.29E-01	1.01E-01	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	5.73E-01	1.22E-01	1.25E-01	8.90E-02	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	8.47E-01	9.72E-01	9.73E-01	1.05E+00	pCi/g	
13-07029-03	DUP	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	4.20E-01	1.73E-01	1.74E-01	2.62E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07029		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	5.09E-01	1.90E-01	1.91E-01	3.45E-01	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	5.76E-01	1.11E-01	1.14E-01	1.03E-01	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.39E+01	1.93E+00	2.05E+00	4.31E-01	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	6.92E-01	3.29E+00	3.29E+00	6.32E+00	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	6.11E-01	1.58E-01	1.61E-01	8.69E-02	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	6.18E-01	1.53E-01	1.56E-01	1.02E-01	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	5.76E-01	1.11E-01	1.14E-01	1.03E-01	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	3.27E-01	7.36E-01	7.36E-01	1.30E+00	pCi/g	
13-07029-04	TRG	SGBKGD-01-61-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.47E-01	1.27E-01	1.30E-01	1.40E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	7.44E-01	1.74E-01	1.78E-01	2.00E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	6.55E-01	1.46E-01	1.50E-01	1.13E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.45E+01	2.01E+00	2.14E+00	4.83E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-1.32E+00	3.47E+00	3.47E+00	6.27E+00	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.59E-01	1.87E-01	1.91E-01	9.16E-02	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	6.00E-01	1.47E-01	1.50E-01	1.10E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	6.55E-01	1.46E-01	1.50E-01	1.13E-01	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	1.65E+00	1.35E+00	1.35E+00	1.19E+00	pCi/g	
13-07029-05	TRG	SGBKGD-01-62-130701	07/01/13 09:34	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	6.16E-01	2.00E-01	2.03E-01	2.99E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	6.07E-01	1.47E-01	1.50E-01	1.73E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.52E-01	1.24E-01	1.26E-01	2.04E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.43E+01	2.00E+00	2.13E+00	4.69E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	1.75E+00	3.56E+00	3.56E+00	6.98E+00	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	6.66E-01	1.70E-01	1.74E-01	8.14E-02	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	4.70E-01	1.32E-01	1.34E-01	1.04E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.52E-01	1.24E-01	1.26E-01	2.04E-01	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	9.45E-01	9.78E-01	9.80E-01	1.05E+00	pCi/g	
13-07029-06	TRG	SGBKGD-02-61-130701	07/01/13 09:36	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.35E-01	1.81E-01	1.83E-01	2.73E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07029		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	5.70E-01	1.42E-01	1.45E-01	2.07E-01	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.88E-01	1.27E-01	1.29E-01	2.11E-01	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.27E+01	1.81E+00	1.92E+00	3.67E-01	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	8.03E-01	3.44E+00	3.44E+00	6.58E+00	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.41E-01	1.80E-01	1.84E-01	8.36E-02	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	6.21E-01	1.39E-01	1.42E-01	9.96E-02	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.88E-01	1.27E-01	1.29E-01	2.11E-01	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	2.02E-01	7.25E-01	7.25E-01	1.27E+00	pCi/g	
13-07029-07	TRG	SGBKGD-03-61-130701	07/01/13 09:39	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.60E-01	1.76E-01	1.79E-01	2.73E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	8.98E-01	2.07E-01	2.12E-01	2.20E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	6.26E-01	1.23E-01	1.28E-01	1.12E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.45E+01	2.04E+00	2.17E+00	5.87E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	2.81E-01	4.02E+00	4.02E+00	7.51E+00	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	1.04E+00	2.41E-01	2.47E-01	9.48E-02	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	7.46E-01	1.71E-01	1.75E-01	1.06E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	6.26E-01	1.23E-01	1.28E-01	1.12E-01	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	3.48E-01	8.09E-01	8.09E-01	1.43E+00	pCi/g	
13-07029-08	TRG	SGBKGD-04-61-130701	07/01/13 09:41	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	8.56E-01	2.13E-01	2.17E-01	3.55E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	7.28E-01	1.56E-01	1.61E-01	1.80E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.86E-01	9.96E-02	1.03E-01	1.10E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.44E+01	1.98E+00	2.11E+00	4.70E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	1.98E-01	3.91E+00	3.91E+00	6.65E+00	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	6.53E-01	1.69E-01	1.72E-01	8.47E-02	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	4.91E-01	1.27E-01	1.29E-01	1.12E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.86E-01	9.96E-02	1.03E-01	1.10E-01	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	4.56E-01	7.41E-01	7.41E-01	1.32E+00	pCi/g	
13-07029-09	TRG	SGBKGD-05-61-130701	07/01/13 09:43	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	6.25E-01	1.80E-01	1.83E-01	2.89E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-07029					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL					
			Houston, TX 77056					Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	6.04E-01	1.58E-01	1.61E-01	2.06E-01	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	5.80E-01	1.21E-01	1.24E-01	1.19E-01	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.34E+01	1.81E+00	1.94E+00	4.32E-01	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	3.42E-01	3.76E+00	3.76E+00	6.97E+00	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.42E-01	1.72E-01	1.76E-01	9.46E-02	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.84E-01	1.19E-01	1.23E-01	1.04E-01	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	5.80E-01	1.21E-01	1.24E-01	1.19E-01	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	1.53E+00	1.13E+00	1.13E+00	1.19E+00	pCi/g	
13-07029-10	TRG	SGBKGD-06-61-130701	07/01/13 09:46	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.34E-01	1.22E-01	1.25E-01	1.43E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	5.88E-01	2.55E-01	2.56E-01	3.74E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	5.62E-01	1.31E-01	1.34E-01	1.11E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.66E+01	2.31E+00	2.47E+00	5.67E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-4.60E-02	4.38E+00	4.38E+00	7.44E+00	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	6.72E-01	1.70E-01	1.73E-01	8.84E-02	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.66E-01	1.46E-01	1.49E-01	1.29E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	5.62E-01	1.31E-01	1.34E-01	1.11E-01	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	4.53E-01	8.18E-01	8.19E-01	1.46E+00	pCi/g	
13-07029-11	TRG	SGBKGD-07-61-130701	07/01/13 09:48	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	6.28E-01	1.33E-01	1.36E-01	1.43E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	6.18E-01	1.70E-01	1.72E-01	2.27E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	5.22E-01	1.37E-01	1.39E-01	1.17E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.27E+01	1.71E+00	1.83E+00	3.97E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-1.16E+00	4.04E+00	4.04E+00	7.10E+00	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	8.44E-01	1.79E-01	1.84E-01	8.88E-02	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.76E-01	1.27E-01	1.30E-01	1.08E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	5.22E-01	1.37E-01	1.39E-01	1.17E-01	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	2.24E-02	8.03E-01	8.03E-01	1.40E+00	pCi/g	
13-07029-12	TRG	SGBKGD-08-61-130701	07/01/13 09:50	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	6.20E-01	1.23E-01	1.27E-01	1.68E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07029		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	7.77E-01	2.77E-01	2.80E-01	4.54E-01	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	6.18E-01	1.51E-01	1.54E-01	1.23E-01	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.49E+01	2.17E+00	2.30E+00	6.03E-01	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	1.52E+00	4.62E+00	4.62E+00	8.70E+00	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.45E-01	1.48E-01	1.53E-01	9.71E-02	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.78E-01	1.30E-01	1.34E-01	1.16E-01	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	6.18E-01	1.51E-01	1.54E-01	1.23E-01	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	1.11E+00	7.37E-01	7.39E-01	1.33E+00	pCi/g	
13-07029-13	TRG	SGBKGD-09-61-130701	07/01/13 09:52	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	6.29E-01	1.77E-01	1.79E-01	3.22E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	4.73E-01	1.80E-01	1.81E-01	3.49E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.38E-01	1.32E-01	1.34E-01	2.04E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.44E+01	1.98E+00	2.11E+00	4.53E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-2.10E-01	3.25E+00	3.25E+00	6.06E+00	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	7.01E-01	1.76E-01	1.80E-01	8.23E-02	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.00E-01	1.36E-01	1.39E-01	1.04E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.38E-01	1.32E-01	1.34E-01	2.04E-01	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	3.58E-01	7.08E-01	7.09E-01	1.26E+00	pCi/g	
13-07029-14	DO	SGBKGD-10-61-130701	07/01/13 09:54	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.15E-01	1.30E-01	1.32E-01	2.56E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	8.53E-01	1.78E-01	1.83E-01	1.90E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.97E-01	1.60E-01	1.62E-01	2.18E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.47E+01	2.03E+00	2.17E+00	4.59E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	-9.67E-01	3.75E+00	3.75E+00	6.78E+00	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	8.08E-01	2.01E-01	2.06E-01	8.65E-02	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	7.04E-01	1.76E-01	1.80E-01	1.13E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.97E-01	1.60E-01	1.62E-01	2.18E-01	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	4.41E-01	8.07E-01	8.07E-01	1.42E+00	pCi/g	
13-07029-15	TRG	SGBKGD-11-61-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	7.21E-01	1.99E-01	2.02E-01	3.15E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-07029		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	7.07E-01	2.21E-01	2.24E-01	4.05E-01	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	4.76E-01	1.07E-01	1.10E-01	1.19E-01	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.36E+01	1.87E+00	2.00E+00	3.63E-01	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	6.14E+00	6.18E+00	6.18E+00	6.22E+00	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	6.58E-01	1.34E-01	1.38E-01	9.63E-02	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	5.94E-01	1.13E-01	1.17E-01	1.11E-01	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	4.76E-01	1.07E-01	1.10E-01	1.19E-01	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	1.09E+00	8.13E-01	8.15E-01	1.46E+00	pCi/g	
13-07029-16	TRG	SGBKGD-11-62-130701	07/01/13 09:57	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	5.34E-01	1.26E-01	1.29E-01	1.54E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Actinium-228	LANL ER-130 Modified	1.08E+00	4.98E-01	5.01E-01	5.42E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Bismuth-214	LANL ER-130 Modified	7.08E-01	1.70E-01	1.74E-01	1.48E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Potassium-40	LANL ER-130 Modified	1.64E+01	2.52E+00	2.66E+00	6.34E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Protactinium-234m	LANL ER-130 Modified	7.49E+00	6.47E+00	6.48E+00	8.11E+00	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Lead-212	LANL ER-130 Modified	8.25E-01	1.70E-01	1.75E-01	1.18E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Lead-214	LANL ER-130 Modified	6.41E-01	1.51E-01	1.55E-01	1.54E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Radium-226	LANL ER-130 Modified	7.08E-01	1.70E-01	1.74E-01	1.48E-01	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Thorium-234	LANL ER-130 Modified	2.11E+00	1.71E+00	1.72E+00	1.35E+00	pCi/g	
13-07029-17	TRG	SGBKGD-12-61-130701	07/01/13 09:59	7/5/2013	7/31/2013	13-07029	Thallium-208	LANL ER-130 Modified	8.40E-01	2.15E-01	2.19E-01	4.21E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	14-02120					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:	SO								
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-02120-01	LCS	KNOWN	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	
14-02120-01	LCS	KNOWN	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	
14-02120-01	LCS	SPIKE	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Cobalt-60	LANL ER-130 Modified	1.34E+02	8.77E+00	1.11E+01	6.34E-01	pCi/g	
14-02120-01	LCS	SPIKE	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Cesium-137	LANL ER-130 Modified	8.73E+01	7.77E+00	8.97E+00	9.51E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Actinium-228	LANL ER-130 Modified	-3.52E-02	1.16E-01	1.16E-01	1.60E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Bismuth-214	LANL ER-130 Modified	8.97E-02	5.66E-02	5.68E-02	1.08E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Potassium-40	LANL ER-130 Modified	3.31E-02	3.38E-01	3.38E-01	5.78E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Protactinium-234m	LANL ER-130 Modified	3.07E+00	2.44E+00	2.45E+00	5.23E+00	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Lead-212	LANL ER-130 Modified	2.74E-02	4.38E-02	4.39E-02	6.35E-02	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Lead-214	LANL ER-130 Modified	3.93E-02	6.05E-02	6.06E-02	9.08E-02	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Radium-226	LANL ER-130 Modified	8.97E-02	5.66E-02	5.68E-02	1.08E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Thorium-234	LANL ER-130 Modified	6.78E-01	3.89E-01	3.90E-01	6.33E-01	pCi/g	
14-02120-02	MBL	BLANK	02/20/14 00:00	2/20/2014	3/17/2014	14-02120	Thallium-208	LANL ER-130 Modified	1.18E-02	8.19E-02	8.19E-02	1.36E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Actinium-228	LANL ER-130 Modified	1.03E+00	2.12E-01	2.18E-01	5.18E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Bismuth-214	LANL ER-130 Modified	8.86E-01	1.84E-01	1.89E-01	2.74E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Potassium-40	LANL ER-130 Modified	1.96E+01	2.62E+00	2.80E+00	1.34E+00	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Protactinium-234m	LANL ER-130 Modified	-1.13E+00	7.49E+00	7.49E+00	1.14E+01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Lead-212	LANL ER-130 Modified	1.22E+00	1.67E-01	1.78E-01	2.73E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Lead-214	LANL ER-130 Modified	9.61E-01	1.71E-01	1.78E-01	2.30E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Radium-226	LANL ER-130 Modified	8.86E-01	1.84E-01	1.89E-01	2.74E-01	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Thorium-234	LANL ER-130 Modified	2.06E+00	2.03E+00	2.03E+00	3.39E+00	pCi/g	
14-02120-03	DUP	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Thallium-208	LANL ER-130 Modified	7.62E-01	1.84E-01	1.88E-01	2.33E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Actinium-228	LANL ER-130 Modified	1.10E+00	3.17E-01	3.22E-01	5.12E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Bismuth-214	LANL ER-130 Modified	7.91E-01	1.61E-01	1.66E-01	6.41E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Potassium-40	LANL ER-130 Modified	2.04E+01	2.72E+00	2.91E+00	1.52E+00	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Protactinium-234m	LANL ER-130 Modified	1.02E+01	6.94E+00	6.96E+00	1.31E+01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Lead-212	LANL ER-130 Modified	9.80E-01	1.51E-01	1.59E-01	2.63E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Lead-214	LANL ER-130 Modified	8.00E-01	1.57E-01	1.62E-01	2.28E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Radium-226	LANL ER-130 Modified	7.91E-01	1.61E-01	1.66E-01	6.41E-01	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Thorium-234	LANL ER-130 Modified	1.97E+00	1.50E+00	1.50E+00	2.46E+00	pCi/g	
14-02120-04	DO	OT4024-21-31-140208	02/08/14 11:51	2/20/2014	3/17/2014	14-02120	Thallium-208	LANL ER-130 Modified	9.08E-01	2.05E-01	2.10E-01	2.60E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 14-02120		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Actinium-228	LANL ER-130 Modified	7.66E-01	2.15E-01	2.19E-01	4.25E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Bismuth-214	LANL ER-130 Modified	7.47E-01	1.57E-01	1.62E-01	2.44E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Potassium-40	LANL ER-130 Modified	1.63E+01	2.22E+00	2.37E+00	8.52E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Protactinium-234m	LANL ER-130 Modified	5.18E+00	5.62E+00	5.63E+00	1.04E+01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Lead-212	LANL ER-130 Modified	7.71E-01	1.28E-01	1.34E-01	2.44E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Lead-214	LANL ER-130 Modified	7.08E-01	1.62E-01	1.66E-01	2.69E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Radium-226	LANL ER-130 Modified	7.47E-01	1.57E-01	1.62E-01	2.44E-01	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Thorium-234	LANL ER-130 Modified	1.46E+00	1.14E+00	1.14E+00	1.87E+00	pCi/g			
14-02120-05	TRG	OT4024-22-31-140208	02/08/14 11:55	2/20/2014	3/17/2014	14-02120	Thallium-208	LANL ER-130 Modified	7.27E-01	1.67E-01	1.71E-01	2.84E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Actinium-228	LANL ER-130 Modified	7.80E-01	2.41E-01	2.44E-01	4.56E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Bismuth-214	LANL ER-130 Modified	6.94E-01	1.69E-01	1.73E-01	2.43E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Potassium-40	LANL ER-130 Modified	1.69E+01	2.44E+00	2.59E+00	1.01E+00	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Protactinium-234m	LANL ER-130 Modified	-1.64E+00	6.23E+00	6.23E+00	8.71E+00	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Lead-212	LANL ER-130 Modified	9.72E-01	1.43E-01	1.52E-01	2.34E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Lead-214	LANL ER-130 Modified	8.71E-01	1.69E-01	1.75E-01	2.23E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Radium-226	LANL ER-130 Modified	6.94E-01	1.69E-01	1.73E-01	2.43E-01	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Thorium-234	LANL ER-130 Modified	1.29E+00	1.32E+00	1.32E+00	2.18E+00	pCi/g			
14-02120-06	TRG	OT4024-23-31-140208	02/08/14 11:57	2/20/2014	3/17/2014	14-02120	Thallium-208	LANL ER-130 Modified	8.07E-01	2.48E-01	2.51E-01	3.31E-01	pCi/g			

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:						Work Order Details:					
			Kristie Warr						SDG:		14-02020			
			Weston Solutions, Inc.						Purchase Order:		0082623			
			5599 San Felipe Suite 700						Analysis Category:		ENVIRONMENTAL			
Houston, TX 77056						Sample Matrix:		SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-02020-01	LCS	KNOWN	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	
14-02020-01	LCS	KNOWN	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	
14-02020-01	LCS	SPIKE	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Cobalt-60	LANL ER-130 Modified	1.34E+02	8.81E+00	1.12E+01	6.76E-01	pCi/g	
14-02020-01	LCS	SPIKE	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Cesium-137	LANL ER-130 Modified	8.80E+01	7.85E+00	9.06E+00	1.05E+00	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Actinium-228	LANL ER-130 Modified	8.73E-02	1.10E-01	1.10E-01	2.00E-01	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Bismuth-214	LANL ER-130 Modified	4.39E-02	6.66E-02	6.67E-02	1.13E-01	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Potassium-40	LANL ER-130 Modified	1.00E-01	2.58E-01	2.58E-01	4.90E-01	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Protactinium-234m	LANL ER-130 Modified	4.07E+00	2.91E+00	2.91E+00	5.92E+00	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Lead-212	LANL ER-130 Modified	1.05E-02	4.74E-02	4.75E-02	6.67E-02	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Lead-214	LANL ER-130 Modified	1.70E-02	6.02E-02	6.02E-02	8.65E-02	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Radium-226	LANL ER-130 Modified	4.39E-02	6.66E-02	6.67E-02	1.13E-01	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Thorium-234	LANL ER-130 Modified	6.52E-01	3.66E-01	3.68E-01	6.00E-01	pCi/g	
14-02020-02	MBL	BLANK	02/05/14 00:00	2/5/2014	2/27/2014	14-02020	Thallium-208	LANL ER-130 Modified	1.43E-02	8.19E-02	8.19E-02	1.33E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Actinium-228	LANL ER-130 Modified	2.32E+00	4.10E-01	4.27E-01	7.57E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Bismuth-214	LANL ER-130 Modified	1.72E+00	2.79E-01	2.92E-01	3.59E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Potassium-40	LANL ER-130 Modified	1.53E+01	2.35E+00	2.48E+00	8.50E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Protactinium-234m	LANL ER-130 Modified	8.43E+00	7.45E+00	7.47E+00	1.40E+01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Lead-212	LANL ER-130 Modified	2.54E+00	2.99E-01	3.26E-01	3.92E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Lead-214	LANL ER-130 Modified	2.08E+00	2.68E-01	2.89E-01	3.60E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Radium-226	LANL ER-130 Modified	1.72E+00	2.79E-01	2.92E-01	3.59E-01	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Thorium-234	LANL ER-130 Modified	3.71E+00	2.94E+00	2.95E+00	4.87E+00	pCi/g	
14-02020-03	DUP	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Thallium-208	LANL ER-130 Modified	1.79E+00	2.70E-01	2.85E-01	1.78E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	14-02020					
								Purchase Order:	0082623					
								Analysis Category:	ENVIRONMENTAL					
					Sample Matrix:		SO							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Actinium-228	LANL ER-130 Modified	2.88E+00	3.76E-01	4.04E-01	5.39E-01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Bismuth-214	LANL ER-130 Modified	1.87E+00	2.86E-01	3.02E-01	3.90E-01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Potassium-40	LANL ER-130 Modified	1.24E+01	2.25E+00	2.34E+00	1.90E+00	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Protactinium-234m	LANL ER-130 Modified	4.99E+00	8.78E+00	8.78E+00	1.48E+01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Lead-212	LANL ER-130 Modified	2.40E+00	2.80E-01	3.06E-01	4.72E-01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Lead-214	LANL ER-130 Modified	1.83E+00	2.50E-01	2.67E-01	7.14E-01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Radium-226	LANL ER-130 Modified	1.87E+00	2.86E-01	3.02E-01	3.90E-01	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Thorium-234	LANL ER-130 Modified	3.26E+00	2.67E+00	2.67E+00	4.42E+00	pCi/g	
14-02020-04	DO	OT4037-21-31-140121	01/21/14 15:55	2/5/2014	2/27/2014	14-02020	Thallium-208	LANL ER-130 Modified	1.98E+00	3.17E-01	3.33E-01	3.64E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Actinium-228	LANL ER-130 Modified	1.60E+00	3.09E-01	3.20E-01	4.12E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Bismuth-214	LANL ER-130 Modified	1.14E+00	1.81E-01	1.91E-01	2.63E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Potassium-40	LANL ER-130 Modified	1.30E+01	1.98E+00	2.09E+00	1.36E+00	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Protactinium-234m	LANL ER-130 Modified	-1.54E+00	7.16E+00	7.16E+00	1.07E+01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Lead-212	LANL ER-130 Modified	1.80E+00	2.14E-01	2.33E-01	2.91E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Lead-214	LANL ER-130 Modified	1.36E+00	1.85E-01	1.98E-01	2.61E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Radium-226	LANL ER-130 Modified	1.14E+00	1.81E-01	1.91E-01	2.63E-01	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Thorium-234	LANL ER-130 Modified	3.23E+00	2.50E+00	2.51E+00	4.15E+00	pCi/g	
14-02020-05	TRG	OT4037-22-31-140121	01/21/14 16:02	2/5/2014	2/27/2014	14-02020	Thallium-208	LANL ER-130 Modified	1.63E+00	3.31E-01	3.41E-01	3.50E-01	pCi/g	

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Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 14-01056		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
14-01056-01	LCS	KNOWN	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00				pCi/g		
14-01056-01	LCS	KNOWN	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00				pCi/g		
14-01056-01	LCS	SPIKE	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Cobalt-60	LANL ER-130 Modified	1.38E+02	8.99E+00	1.14E+01	1.36E+00		pCi/g		
14-01056-01	LCS	SPIKE	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Cesium-137	LANL ER-130 Modified	9.08E+01	8.41E+00	9.61E+00	2.33E+00		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	-3.26E-02	1.07E-01	1.07E-01	1.70E-01		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	2.52E-02	6.15E-02	6.16E-02	1.04E-01		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	5.03E-02	2.45E-01	2.45E-01	4.56E-01		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	2.61E+00	2.89E+00	2.89E+00	5.63E+00		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	3.23E-02	4.53E-02	4.54E-02	6.63E-02		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	3.79E-02	6.07E-02	6.08E-02	9.13E-02		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	2.52E-02	6.15E-02	6.16E-02	1.04E-01		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	6.73E-01	3.77E-01	3.79E-01	6.14E-01		pCi/g		
14-01056-02	MBL	BLANK	01/15/14 00:00	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.15E-02	6.07E-02	6.07E-02	1.41E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.73E+00	3.29E-01	3.41E-01	6.09E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	2.21E+00	2.70E-01	2.93E-01	2.76E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.99E+01	2.45E+00	2.65E+00	9.76E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	1.11E+01	8.73E+00	8.75E+00	1.41E+01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	2.22E+00	2.39E-01	2.65E-01	3.39E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	2.24E+00	2.33E-01	2.60E-01	3.41E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	2.21E+00	2.70E-01	2.93E-01	2.76E-01		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.64E+00	1.91E+00	1.91E+00	3.19E+00		pCi/g		
14-01056-03	DUP	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.74E+00	2.28E-01	2.45E-01	1.55E-01		pCi/g		

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 14-01056		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	2.24E+00	3.06E-01	3.27E-01	4.99E-01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	2.40E+00	2.71E-01	2.98E-01	2.43E-01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	2.06E+01	2.55E+00	2.76E+00	1.19E+00	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	4.71E-01	7.10E+00	7.10E+00	1.10E+01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	2.46E+00	2.50E-01	2.80E-01	2.84E-01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	2.18E+00	2.33E-01	2.59E-01	3.24E-01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	2.40E+00	2.71E-01	2.98E-01	2.43E-01	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.89E+00	2.09E+00	2.10E+00	3.50E+00	pCi/g	
14-01056-04	DO	OT4043-21-31-140108	01/08/14 12:16	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	2.00E+00	2.71E-01	2.90E-01	1.55E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.16E+00	2.38E-01	2.45E-01	4.08E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.18E+00	2.08E-01	2.16E-01	2.74E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.97E+01	2.52E+00	2.72E+00	9.06E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	8.13E+00	6.31E+00	6.33E+00	1.16E+01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.40E+00	1.78E-01	1.92E-01	2.57E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.12E+00	1.95E-01	2.04E-01	3.41E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.18E+00	2.08E-01	2.16E-01	2.74E-01	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	7.22E-01	1.65E+00	1.65E+00	2.18E+00	pCi/g	
14-01056-05	TRG	OT4050-21-31-140113	01/13/14 12:32	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.41E+00	2.62E-01	2.72E-01	3.81E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.07E+00	3.09E-01	3.14E-01	7.33E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.18E+00	2.09E-01	2.18E-01	3.07E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	2.14E+01	2.96E+00	3.16E+00	1.28E+00	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	1.26E+00	8.42E+00	8.42E+00	1.31E+01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.35E+00	1.78E-01	1.91E-01	3.29E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	9.94E-01	1.96E-01	2.03E-01	2.96E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.18E+00	2.09E-01	2.18E-01	3.07E-01	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.83E+00	1.45E+00	1.46E+00	2.42E+00	pCi/g	
14-01056-06	TRG	OT4050-22-31-140113	01/13/14 12:35	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	8.08E-01	1.97E-01	2.01E-01	2.21E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 14-01056		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.12E+00	2.98E-01	3.04E-01	4.50E-01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.05E+00	1.84E-01	1.92E-01	2.72E-01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	2.02E+01	2.70E+00	2.89E+00	1.53E+00	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	3.72E-01	6.65E+00	6.65E+00	1.05E+01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.59E+00	2.34E-01	2.48E-01	2.77E-01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.22E+00	1.56E-01	1.68E-01	3.47E-01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.05E+00	1.84E-01	1.92E-01	2.72E-01	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	7.00E-01	1.63E+00	1.63E+00	2.16E+00	pCi/g	
14-01056-07	TRG	OT4050-23-31-140113	01/13/14 12:37	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.04E+00	2.94E-01	2.99E-01	4.05E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.32E+00	3.19E-01	3.26E-01	5.10E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.15E+00	2.32E-01	2.40E-01	3.33E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	2.13E+01	3.04E+00	3.23E+00	1.26E+00	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	9.32E+00	7.82E+00	7.83E+00	1.47E+01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.25E+00	1.76E-01	1.87E-01	3.13E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.12E+00	1.60E-01	1.70E-01	2.51E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.15E+00	2.32E-01	2.40E-01	3.33E-01	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	2.72E+00	1.58E+00	1.58E+00	2.66E+00	pCi/g	
14-01056-08	TRG	OT4050-24-31-140113	01/13/14 12:40	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	8.66E-01	2.02E-01	2.06E-01	3.03E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	5.98E-01	1.89E-01	1.91E-01	3.16E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.05E+00	1.44E-01	1.53E-01	1.56E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.21E+01	1.54E+00	1.66E+00	6.51E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	3.45E+00	3.98E+00	3.98E+00	6.90E+00	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	7.51E-01	1.01E-01	1.08E-01	1.96E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.06E+00	1.31E-01	1.42E-01	2.09E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.05E+00	1.44E-01	1.53E-01	1.56E-01	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.20E+00	1.04E+00	1.04E+00	1.42E+00	pCi/g	
14-01056-09	TRG	OT4050-25-31-140113	01/13/14 12:43	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	6.79E-01	1.23E-01	1.28E-01	1.04E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 14-01056		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	8.18E-01	1.78E-01	1.83E-01	4.64E-01	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	9.13E-01	1.52E-01	1.59E-01	2.08E-01	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.15E+01	1.70E+00	1.80E+00	1.07E+00	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	4.66E+00	4.72E+00	4.73E+00	8.69E+00	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.12E+00	1.85E-01	1.94E-01	2.33E-01	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	9.57E-01	1.46E-01	1.54E-01	2.52E-01	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	9.13E-01	1.52E-01	1.59E-01	2.08E-01	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.79E+00	1.62E+00	1.62E+00	2.70E+00	pCi/g	
14-01056-10	TRG	SA9011-21-31-140108	01/08/14 14:48	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	8.19E-01	1.91E-01	1.95E-01	3.69E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	8.44E-01	3.02E-01	3.05E-01	5.76E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.06E+00	1.85E-01	1.93E-01	2.66E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.39E+01	2.10E+00	2.22E+00	9.92E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	9.66E-01	5.94E+00	5.94E+00	9.74E+00	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.16E+00	1.58E-01	1.69E-01	2.47E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.04E+00	1.58E-01	1.67E-01	2.36E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.06E+00	1.85E-01	1.93E-01	2.66E-01	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	1.04E+00	1.34E+00	1.34E+00	2.20E+00	pCi/g	
14-01056-11	TRG	SA9011-22-31-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.05E+00	2.15E-01	2.22E-01	1.93E-01	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Actinium-228	LANL ER-130 Modified	1.23E+00	2.12E-01	2.21E-01	3.90E-01	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Bismuth-214	LANL ER-130 Modified	1.01E+00	1.55E-01	1.63E-01	6.46E-02	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Potassium-40	LANL ER-130 Modified	1.56E+01	2.05E+00	2.20E+00	1.04E+00	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Protactinium-234m	LANL ER-130 Modified	2.04E+00	5.64E+00	5.64E+00	9.17E+00	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Lead-212	LANL ER-130 Modified	1.27E+00	1.55E-01	1.69E-01	2.66E-01	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Lead-214	LANL ER-130 Modified	1.13E+00	1.52E-01	1.63E-01	2.28E-01	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Radium-226	LANL ER-130 Modified	1.01E+00	1.55E-01	1.63E-01	6.46E-02	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Thorium-234	LANL ER-130 Modified	2.74E+00	1.44E+00	1.44E+00	2.02E+00	pCi/g	
14-01056-12	TRG	SA9011-22-32-140108	01/08/14 14:50	1/15/2014	2/6/2014	14-01056	Thallium-208	LANL ER-130 Modified	1.51E+00	2.62E-01	2.74E-01	3.93E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr					SDG:	13-12102					
			Weston Solutions, Inc.					Purchase Order:	0082623					
			5599 San Felipe Suite 700					Analysis Category:	ENVIRONMENTAL					
			Houston, TX 77056					Sample Matrix:	SO					
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-12102-01	LCS	KNOWN	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	
13-12102-01	LCS	KNOWN	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	
13-12102-01	LCS	SPIKE	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.91E+00	1.13E+01	6.84E-01	pCi/g	
13-12102-01	LCS	SPIKE	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Cesium-137	LANL ER-130 Modified	8.82E+01	7.87E+00	9.07E+00	9.96E-01	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Actinium-228	LANL ER-130 Modified	-6.69E-03	7.35E-02	7.35E-02	1.17E-01	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Bismuth-214	LANL ER-130 Modified	2.97E-02	3.61E-02	3.61E-02	7.17E-02	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Potassium-40	LANL ER-130 Modified	2.24E-01	2.02E-01	2.02E-01	4.61E-01	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Protactinium-234m	LANL ER-130 Modified	1.99E+00	1.78E+00	1.78E+00	4.12E+00	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Lead-212	LANL ER-130 Modified	3.81E-03	3.24E-02	3.24E-02	5.03E-02	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Lead-214	LANL ER-130 Modified	6.74E-02	4.10E-02	4.11E-02	6.11E-02	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Radium-226	LANL ER-130 Modified	2.97E-02	3.61E-02	3.61E-02	7.17E-02	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Thorium-234	LANL ER-130 Modified	5.84E-01	4.43E-01	4.44E-01	7.80E-01	pCi/g	
13-12102-02	MBL	BLANK	12/20/13 00:00	12/20/2013	1/16/2014	13-12102	Thallium-208	LANL ER-130 Modified	5.51E-02	5.92E-02	5.93E-02	9.51E-02	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Actinium-228	LANL ER-130 Modified	8.05E+00	7.65E-01	8.69E-01	8.12E-01	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Bismuth-214	LANL ER-130 Modified	6.12E+00	6.19E-01	6.94E-01	4.73E-01	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Potassium-40	LANL ER-130 Modified	3.14E+01	3.93E+00	4.24E+00	2.25E+00	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Protactinium-234m	LANL ER-130 Modified	1.52E+01	1.59E+01	1.59E+01	2.64E+01	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Lead-212	LANL ER-130 Modified	9.09E+00	8.21E-01	9.44E-01	1.12E+00	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Lead-214	LANL ER-130 Modified	6.87E+00	5.73E-01	6.72E-01	5.27E-01	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Radium-226	LANL ER-130 Modified	6.12E+00	6.19E-01	6.94E-01	4.73E-01	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Thorium-234	LANL ER-130 Modified	9.47E+00	4.43E+00	4.46E+00	7.24E+00	pCi/g	
13-12102-03	DUP	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Thallium-208	LANL ER-130 Modified	7.75E+00	1.03E+00	1.11E+00	8.09E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Actinium-228	LANL ER-130 Modified	8.51E+00	7.19E-01	8.41E-01	9.97E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Bismuth-214	LANL ER-130 Modified	6.24E+00	6.26E-01	7.03E-01	5.30E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Potassium-40	LANL ER-130 Modified	3.08E+01	3.90E+00	4.21E+00	2.38E+00	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Protactinium-234m	LANL ER-130 Modified	1.48E+01	1.55E+01	1.55E+01	2.57E+01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Lead-212	LANL ER-130 Modified	8.27E+00	7.77E-01	8.86E-01	5.69E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Lead-214	LANL ER-130 Modified	6.78E+00	5.71E-01	6.68E-01	6.03E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Radium-226	LANL ER-130 Modified	6.24E+00	6.26E-01	7.03E-01	5.30E-01	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Thorium-234	LANL ER-130 Modified	8.49E+00	3.99E+00	4.02E+00	6.51E+00	pCi/g	
13-12102-04	DO	MC3008-21-31-131217	12/17/13 09:40	12/20/2013	1/16/2014	13-12102	Thallium-208	LANL ER-130 Modified	7.76E+00	1.05E+00	1.12E+00	7.92E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-11032		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-11032-01	LCS	KNOWN	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00			pCi/g	
13-11032-01	LCS	KNOWN	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00			pCi/g	
13-11032-01	LCS	SPIKE	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Cobalt-60	LANL ER-130 Modified	1.38E+02	8.53E+00	1.11E+01	6.93E-01	pCi/g	
13-11032-01	LCS	SPIKE	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Cesium-137	LANL ER-130 Modified	9.02E+01	9.59E+00	1.06E+01	8.98E-01	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Actinium-228	LANL ER-130 Modified	5.14E-02	6.33E-02	6.34E-02	1.21E-01	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Bismuth-214	LANL ER-130 Modified	3.97E-02	4.42E-02	4.43E-02	7.82E-02	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Potassium-40	LANL ER-130 Modified	1.46E-01	1.95E-01	1.96E-01	3.29E-01	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Lead-212	LANL ER-130 Modified	2.92E-02	2.74E-02	2.74E-02	5.05E-02	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Lead-214	LANL ER-130 Modified	7.60E-02	5.81E-02	5.82E-02	9.36E-02	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Radium-226	LANL ER-130 Modified	3.97E-02	4.42E-02	4.43E-02	7.82E-02	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Radium-228	LANL ER-130 Modified	5.14E-02	6.33E-02	6.34E-02	1.21E-01	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Thorium-234	LANL ER-130 Modified	6.50E-01	3.80E-01	3.82E-01	6.03E-01	pCi/g	
13-11032-02	MBL	BLANK	11/12/13 00:00	11/12/2013	12/3/2013	13-11032	Thallium-208	LANL ER-130 Modified	2.02E-02	6.17E-02	6.17E-02	1.01E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Actinium-228	LANL ER-130 Modified	5.59E-01	1.99E-01	2.01E-01	4.26E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Bismuth-214	LANL ER-130 Modified	4.20E-01	1.41E-01	1.42E-01	2.37E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Potassium-40	LANL ER-130 Modified	9.40E+00	1.64E+00	1.71E+00	1.08E+00	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Lead-212	LANL ER-130 Modified	6.18E-01	1.06E-01	1.10E-01	1.92E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Lead-214	LANL ER-130 Modified	6.94E-01	1.25E-01	1.30E-01	2.04E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Radium-226	LANL ER-130 Modified	4.20E-01	1.41E-01	1.42E-01	2.37E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Radium-228	LANL ER-130 Modified	5.59E-01	1.99E-01	2.01E-01	4.26E-01	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Thorium-234	LANL ER-130 Modified	2.05E+00	1.41E+00	1.42E+00	2.31E+00	pCi/g	
13-11032-03	DUP	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Thallium-208	LANL ER-130 Modified	5.32E-01	1.31E-01	1.34E-01	1.61E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:					Work Order Details:							
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG:	13-11032						
								Purchase Order:	0082623						
								Analysis Category:	ENVIRONMENTAL						
					Sample Matrix:		SO								
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Actinium-228	LANL ER-130 Modified	1.01E+00	2.13E-01	2.19E-01	3.88E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Bismuth-214	LANL ER-130 Modified	6.62E-01	1.38E-01	1.42E-01	2.20E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Potassium-40	LANL ER-130 Modified	2.03E+01	2.45E+00	2.66E+00	9.00E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Lead-212	LANL ER-130 Modified	1.12E+00	1.41E-01	1.52E-01	2.74E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Lead-214	LANL ER-130 Modified	8.87E-01	1.21E-01	1.29E-01	2.25E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Radium-226	LANL ER-130 Modified	6.62E-01	1.38E-01	1.42E-01	2.20E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Radium-228	LANL ER-130 Modified	1.01E+00	2.13E-01	2.19E-01	3.88E-01	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Thorium-234	LANL ER-130 Modified	1.61E+00	1.58E+00	1.58E+00	2.63E+00	pCi/g		
13-11032-04	TRG	AZ1007-21-31-131102	11/02/13 15:38	11/12/2013	12/4/2013	13-11032	Thallium-208	LANL ER-130 Modified	9.90E-01	2.26E-01	2.32E-01	4.04E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Actinium-228	LANL ER-130 Modified	6.01E-01	2.11E-01	2.14E-01	4.37E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Bismuth-214	LANL ER-130 Modified	7.49E-01	1.48E-01	1.52E-01	8.63E-02	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Potassium-40	LANL ER-130 Modified	1.02E+01	1.65E+00	1.73E+00	9.74E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Lead-212	LANL ER-130 Modified	6.19E-01	1.07E-01	1.12E-01	1.77E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Lead-214	LANL ER-130 Modified	6.20E-01	1.18E-01	1.23E-01	2.40E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Radium-226	LANL ER-130 Modified	7.49E-01	1.48E-01	1.52E-01	8.63E-02	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Radium-228	LANL ER-130 Modified	6.01E-01	2.11E-01	2.14E-01	4.37E-01	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Thorium-234	LANL ER-130 Modified	1.28E+00	1.38E+00	1.39E+00	2.31E+00	pCi/g		
13-11032-05	DO	SA9001-21-31-131109	11/09/13 16:04	11/12/2013	12/4/2013	13-11032	Thallium-208	LANL ER-130 Modified	4.85E-01	1.42E-01	1.44E-01	1.61E-01	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Actinium-228	LANL ER-130 Modified	1.42E+00	5.21E-01	5.26E-01	1.27E+00	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Bismuth-214	LANL ER-130 Modified	1.12E+00	3.21E-01	3.26E-01	4.96E-01	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Potassium-40	LANL ER-130 Modified	1.09E+01	2.48E+00	2.55E+00	1.64E+00	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Lead-212	LANL ER-130 Modified	1.71E+00	3.46E-01	3.56E-01	3.90E-01	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Lead-214	LANL ER-130 Modified	1.19E+00	3.55E-01	3.60E-01	5.65E-01	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Radium-226	LANL ER-130 Modified	1.12E+00	3.21E-01	3.26E-01	4.96E-01	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Radium-228	LANL ER-130 Modified	1.42E+00	5.21E-01	5.26E-01	1.27E+00	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Thorium-234	LANL ER-130 Modified	2.32E+00	2.80E+00	2.80E+00	3.85E+00	pCi/g		
13-11032-06	TRG	SA9025-21-31-131108	11/08/13 12:43	11/12/2013	12/4/2013	13-11032	Thallium-208	LANL ER-130 Modified	1.59E+00	3.86E-01	3.95E-01	1.57E-01	pCi/g		

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:								
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-10135		Purchase Order: 0082623 Analysis Category: ENVIRONMENTAL Sample Matrix: SO						
			Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
13-10135-01	LCS	KNOWN	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Cobalt-60	LANL ER-130 Modified	1.30E+02	5.22E+00				pCi/g		
13-10135-01	LCS	KNOWN	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Cesium-137	LANL ER-130 Modified	8.30E+01	3.32E+00				pCi/g		
13-10135-01	LCS	SPIKE	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Cobalt-60	LANL ER-130 Modified	1.36E+02	8.43E+00	1.10E+01	8.13E-01		pCi/g		
13-10135-01	LCS	SPIKE	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Cesium-137	LANL ER-130 Modified	8.86E+01	9.41E+00	1.05E+01	1.04E+00		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Actinium-228	LANL ER-130 Modified	-3.86E-02	7.03E-02	7.03E-02	9.91E-02		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Bismuth-214	LANL ER-130 Modified	2.24E-02	4.80E-02	4.81E-02	7.74E-02		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Potassium-40	LANL ER-130 Modified	8.26E-02	2.60E-01	2.60E-01	4.52E-01		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Protactinium-234m	LANL ER-130 Modified	1.19E+00	2.28E+00	2.28E+00	4.10E+00		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Lead-212	LANL ER-130 Modified	2.74E-02	2.84E-02	2.85E-02	5.17E-02		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Lead-214	LANL ER-130 Modified	3.93E-02	3.90E-02	3.91E-02	7.29E-02		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Radium-226	LANL ER-130 Modified	2.24E-02	4.80E-02	4.81E-02	7.74E-02		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Thorium-234	LANL ER-130 Modified	5.87E-01	5.49E-01	5.50E-01	9.11E-01		pCi/g		
13-10135-02	MBL	BLANK	10/28/13 00:00	10/25/2013	11/18/2013	13-10135	Thallium-208	LANL ER-130 Modified	7.11E-02	5.99E-02	6.00E-02	1.11E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Actinium-228	LANL ER-130 Modified	2.19E+00	2.86E-01	3.08E-01	5.59E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Bismuth-214	LANL ER-130 Modified	1.76E+00	2.02E-01	2.21E-01	2.53E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Potassium-40	LANL ER-130 Modified	2.69E+01	3.08E+00	3.37E+00	1.18E+00		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Protactinium-234m	LANL ER-130 Modified	1.67E+00	6.28E+00	6.28E+00	9.87E+00		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Lead-212	LANL ER-130 Modified	2.14E+00	2.24E-01	2.50E-01	2.48E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Lead-214	LANL ER-130 Modified	1.64E+00	2.05E-01	2.21E-01	3.25E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Radium-226	LANL ER-130 Modified	1.76E+00	2.02E-01	2.21E-01	2.53E-01		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Thorium-234	LANL ER-130 Modified	2.48E+00	1.78E+00	1.78E+00	2.93E+00		pCi/g		
13-10135-03	DUP	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Thallium-208	LANL ER-130 Modified	2.12E+00	3.76E-01	3.92E-01	4.11E-01		pCi/g		

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

Eberline Analytical Final Report of Analysis			Report To:					Work Order Details:						
			Kristie Warr Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056					SDG: 13-10135		Purchase Order: 0082623				
								Analysis Category: ENVIRONMENTAL						
								Sample Matrix: SO						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Actinium-228	LANL ER-130 Modified	1.85E+00	2.78E-01	2.94E-01	5.58E-01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Bismuth-214	LANL ER-130 Modified	1.55E+00	2.18E-01	2.32E-01	2.81E-01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Potassium-40	LANL ER-130 Modified	2.66E+01	3.08E+00	3.37E+00	1.41E+00	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Protactinium-234m	LANL ER-130 Modified	6.83E-01	6.43E+00	6.43E+00	1.00E+01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Lead-212	LANL ER-130 Modified	2.13E+00	2.27E-01	2.52E-01	3.77E-01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Lead-214	LANL ER-130 Modified	1.72E+00	1.97E-01	2.16E-01	2.75E-01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Radium-226	LANL ER-130 Modified	1.55E+00	2.18E-01	2.32E-01	2.81E-01	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Thorium-234	LANL ER-130 Modified	3.38E+00	1.78E+00	1.79E+00	2.90E+00	pCi/g	
13-10135-04	DO	AZ1008-21-31-131022	10/22/13 13:36	10/25/2013	11/19/2013	13-10135	Thallium-208	LANL ER-130 Modified	1.97E+00	3.37E-01	3.52E-01	2.99E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Actinium-228	LANL ER-130 Modified	1.16E+00	3.93E-01	3.98E-01	8.13E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Bismuth-214	LANL ER-130 Modified	1.34E+01	8.66E-01	1.10E+00	4.19E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Potassium-40	LANL ER-130 Modified	1.51E+01	2.25E+00	2.38E+00	1.94E+00	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Protactinium-234m	LANL ER-130 Modified	1.41E+01	1.12E+01	1.12E+01	2.36E+01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Lead-212	LANL ER-130 Modified	-1.22E+00	3.13E-01	3.19E-01	3.80E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Lead-214	LANL ER-130 Modified	1.39E+01	9.44E-01	1.18E+00	5.14E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Radium-226	LANL ER-130 Modified	1.34E+01	8.66E-01	1.10E+00	4.19E-01	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Thorium-234	LANL ER-130 Modified	2.60E+01	4.16E+00	4.37E+00	6.46E+00	pCi/g	
13-10135-05	TRG	NA8013-21-31-130927	09/27/13 14:57	10/25/2013	11/19/2013	13-10135	Thallium-208	LANL ER-130 Modified	1.17E+00	3.62E-01	3.67E-01	5.91E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Actinium-228	LANL ER-130 Modified	2.81E+00	3.98E-01	4.23E-01	6.29E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Bismuth-214	LANL ER-130 Modified	1.71E+00	2.58E-01	2.73E-01	4.01E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Potassium-40	LANL ER-130 Modified	1.21E+01	2.25E+00	2.33E+00	1.89E+00	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Protactinium-234m	LANL ER-130 Modified	1.58E-01	8.09E+00	8.09E+00	1.27E+01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Lead-212	LANL ER-130 Modified	2.77E+00	3.09E-01	3.40E-01	2.93E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Lead-214	LANL ER-130 Modified	1.78E+00	2.94E-01	3.08E-01	4.29E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Radium-226	LANL ER-130 Modified	1.71E+00	2.58E-01	2.73E-01	4.01E-01	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Thorium-234	LANL ER-130 Modified	2.60E+00	2.87E+00	2.87E+00	4.79E+00	pCi/g	
13-10135-06	TRG	SA9012-21-31-130920	09/20/13 16:01	10/25/2013	11/19/2013	13-10135	Thallium-208	LANL ER-130 Modified	2.47E+00	4.70E-01	4.87E-01	8.05E-01	pCi/g	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 2014
NRSB Device Code 10313

Laboratory Report for:

Property Tested:

Weston Solutions Inc.-K. Warr
5599 San Felipe Suite 700
Houston TX 77056

1-WESTON-04213015-140225-0001
Canyon Largo Assessment

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
1615105	500548	02/18/2014 10:30 am 02/22/2014 11:05 am	NA8013A	13.6
1615106	500546	02/18/2014 10:30 am 02/22/2014 11:10 am	NA8013B	14.1
1615107	500547	02/18/2014 10:35 am 02/22/2014 11:08 am	NA8013C	14.8

Comment: AMENDED REPORT for 500548-500547 on 2/27/14 to correct the area tested. Weston Solutions Inc.-K. Warr was e-mailed a copy of this report. A copy of this report was emailed to olin.garren@westonsolutions.com.

Distributed by: Weston Solutions Inc.-K. Warr

Date Received: 02/26/2014 Date Logged: 02/26/2014 Date Analyzed: 02/26/2014 Date Reported: 02/27/2014

Report Reviewed By: M. Gray

Report Approved By: Carolyn K. Allen

Disclaimer:

Carolyn K. Allen, President, AccuStar Labs

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 2014
NRSB Device Code 10313

Laboratory Report for:

Property Tested:

Weston Solutions Inc.-K. Warr
5599 San Felipe Suite 700
Houston TX 77056

1-WESTON04213015-140227-0001
Canyon Largo Assessment

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
1615417	500553	02/22/2014 11:24 am 02/27/2014 11:27 am	OT4023A	2.2
1615418	495087	02/22/2014 11:32 am 02/27/2014 11:32 am	OT4023B	2.3

Comment: Weston Solutions Inc.-K. Warr was e-mailed a copy of this report.

Distributed by: Weston Solutions Inc.-K. Warr

Date Received: 02/28/2014 Date Logged: 02/28/2014 Date Analyzed: 02/28/2014 Date Reported: 03/03/2014

Report Reviewed By: M. Gray

Report Approved By: Carolyn K. Allen

Disclaimer:

Carolyn K. Allen, President, AccuStar Labs

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 2014
NRSB Device Code 10313

Laboratory Report for:

Property Tested:

Weston Solutions Inc.-K. Warr
5599 San Felipe Suite 700
Houston TX 77056

1-WESTON-04213015-140306-0001
Canyon Largo Assessment

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result (pCi/L)
1618166	500550	02/27/2014 2:12 pm 03/05/2014 2:22 pm	SA9001A	2.1
1618167	500551	02/27/2014 3:37 pm 03/05/2014 3:42 pm	SA9001B	2.7

Comment: Weston Solutions Inc.-K. Warr was e-mailed a copy of this report.

Distributed by: Weston Solutions Inc.-K. Warr

Date Received: 03/07/2014 Date Logged: 03/07/2014 Date Analyzed: 03/07/2014 Date Reported: 03/10/2014

Report Reviewed By: M. Hayes

Report Approved By: Carolyn K. Allen

Disclaimer:

Carolyn K. Allen, President, AccuStar Labs

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

APPENDIX C

TDD NO. 1/WESTON-042-13-015

U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015
 Amendment #:
 Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Canyon Largo Assessment
 Purpose: TDD INITIATION

Verbal Date:
 Start Date: 06/04/2013
 Completion Date: 06/21/2013
 Effective Date: 06/04/2013

Priority: HIGH
 Overtime Authorized: No
 Invoice Unit:

SSID: A6HB
 Project/Site Name: Canyon Largo
 Project Address: Lat. 34.042734, Long. -107.662532
 County: Cibola
 City: McCartys
 State: NM
 Zip Code: 87049

Work Area: Response / Removal
 Work Area Code:
 Activity: Fund Lead Removal
 Activity Code: RV
 Operable Unit:
 Emergency Code:
 FPN:
 Performance Based: No

Authorized TDD Ceiling :	Amount	LOE (Hours)
Previous Action(s) :	\$0.00	0.00
This Action :	\$250,000.00	0.00
New Total :	\$250,000.00	0.00

Specific Elements :
 See Schedule

Description of Work :
 See Schedule

Region Specific :
 CERCLIS: NMN000607526
 Misc 2 :

Accounting and Appropriation Information: **SFO:**

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	13	T	6A00	303DC6	2505	A6HB		136ARVC010-001	REMOVAL	\$250,000.00

U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015

Amendment #:

Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Linda Carter _____ (Signature) _____ (Date)	Branch Mail Code:
	Phone Number : 214-665-6665 Fax Number : 214-665-6660
Contracting Officer Representative : Jon Rinehart _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-6789 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley _____ 06/04/2013 (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : Fax Number :

Specific Elements: Analyze -Data that has been collected.,Assess -The residential properties.,Assist -acquiring access agreements,Attend -Tribal meetings,Collect -Samples ,Document -The removal activities. Prepare a written report.,Evaluate -The data,Prepare -A log book to document the assessment activities.,Recommend -The next steps after the data has been collected.,Support -The removal activities,Advise -The OSC on disposal options and completion of the removal activities.

Description of Work: The contractor will assist EPA with acquiring access agreements on the Acoma Pueblo. This project is a radiation assessment of residential properties. The funding for this TDD is \$250,000.

U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015
 Amendment #: 002
 Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Canyon Largo Assessment
 Purpose: CHANGE PERIOD OF PERFORMANCE, INCREMENTAL FUNDING
 Priority: HIGH
 Overtime Authorized: No
 Invoice Unit:

Verbal Date:
 Start Date: 06/04/2013
 Completion Date: 02/28/2014
 Effective Date: 06/04/2013

SSID: A6HB
 Project/Site Name: Canyon Largo
 Project Address: Lat. 34.042734, Long. -107.662532
 County: Cibola
 City: McCartys
 State: NM
 Zip Code: 87049

Work Area: Response / Removal
 Work Area Code:
 Activity: Fund Lead Removal
 Activity Code: RV
 Operable Unit:
 Emergency Code:
 FPN:
 Performance Based: No

Authorized TDD Ceiling :	Amount	LOE (Hours)
Previous Action(s) :	\$250,000.00	0.00
This Action :	\$100,000.00	0.00
New Total :	\$350,000.00	0.00

Specific Elements :
 See Schedule

Description of Work :
 See Schedule

Region Specific :
 CERCLIS: NMN000607526
 Misc 2 :

Accounting and Appropriation Information: SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	13	T	6A00	303DC6	2505	A6HBRV00	C001	136ARSC018-001	REMOVAL SUPPORT	\$100,000.00

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U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015
 Amendment #: 002
 Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Linda Carter _____ (Signature) _____ (Date)	Branch Mail Code:
	Phone Number : 214-665-6665 Fax Number : 214-665-6660
Contracting Officer Representative : Jon Rinehart _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-6789 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley _____ 11/18/2013 (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : Fax Number :

Specific Elements:

Base ORIG - Analyze -Data that has been collected.,Assess -The residential properties.,Assist -acquiring access agreements,Attend -Tribal meetings,Collect -Samples ,Document -The removal activities. Prepare a written report.,Evaluate -The data,Prepare -A log book to document the assessment activities.,Recommend -The next steps after the data has been collected.,Support -The removal activities,Advise -The OSC on disposal options and completion of the removal activities.

Description of Work:

Amendment 002 - The TDD amendment is to add \$100,000 to the project. Additional properties are being assessed under this removal.
 Amendment 001 - Extends the completion date to 2/28/2014 as additional time is needed to complete the structural assessment that is described in this TDD. There is no increase in cost/fee.
 Base ORIG - The contractor will assist EPA with acquiring access agreements on the Acoma Pueblo. This project is a radiation assessment of residential properties. The funding for this TDD is \$250,000.

U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015
 Amendment #: 003
 Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

TDD Title: Canyon Largo Assessment
 Purpose: CHANGE PERIOD OF PERFORMANCE,, INCREMENTAL FUNDING
 Priority: HIGH
 Overtime Authorized: No
 Invoice Unit:

Verbal Date:
 Start Date: 06/04/2013
 Completion Date: 09/30/2014
 Effective Date: 06/04/2013

SSID: A6HB
 Project/Site Name: Canyon Largo
 Project Address: Lat. 34.042734, Long. -107.662532
 County: Cibola
 City: McCartys
 State: NM
 Zip Code: 87049

Work Area: Response / Removal
 Work Area Code:
 Activity: Fund Lead Removal
 Activity Code: RV
 Operable Unit:
 Emergency Code:
 FPN:
 Performance Based: No

Authorized TDD Ceiling :	Amount	LOE (Hours)
Previous Action(s) :	\$350,000.00	0.00
This Action :	\$60,000.00	0.00
New Total :	\$410,000.00	0.00

Specific Elements :
 See Schedule

Description of Work :
 See Schedule

Region Specific :
 CERCLIS: NMN000607526
 Misc 2 :

Accounting and Appropriation Information: SFO:

Line	Budget / FY	Approp. Code	Budget Org.	Program Element	Object Class	Site Project	Cost Org.	DCN Line-ID	Funding Category	TDD Amount
1	13	T	6A00	303DC6	2505	A6HBRV00	C001	136ARSC018-001	REMOVAL SUPPORT	\$160,000.00

U.S. EPA, Region 6
 1445 Ross Avenue, Suite 1200
 Dallas, TX 75202-2733

TDD #: 1/WESTON-042-13-015
 Amendment #: 003
 Contract #: EP-W-06-042

Vendor: WESTON SOLUTIONS, INC.

Project Officer : Will LaBombard _____ (Signature) _____ (Date)	Branch Mail Code:
	Phone Number : 214-665-7199 Fax Number :
Contracting Officer Representative : Jon Rinehart _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-6789 Fax Number :
Contract Specialist: Cora Stanley _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Contracting Officer : Cora Stanley Electronically Signed by Cora Stanley _____ 01/28/2014 (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : 214-665-7464 Fax Number :
Other Agency Official : _____ (Signature) _____ (Date)	Branch Mail Code :
	Phone Number : Fax Number :

Specific Elements:

Base ORIG - Analyze -Data that has been collected.,Assess -The residential properties.,Assist -acquiring access agreements,Attend -Tribal meetings,Collect -Samples ,Document -The removal activities. Prepare a written report.,Evaluate -The data,Prepare -A log book to document the assessment activities.,Recommend -The next steps after the data has been collected.,Support -The removal activities,Advise -The OSC on disposal options and completion of the removal activities.

Description of Work:

Amendment 003 - This TDD extends the period of performance to 9/30/2014. This extension will allow for continuation of work and add additional \$60,000 for the project.
 Amendment 002 - The TDD amendment is to add \$100,000 to the project. Additional properties are being assessed under this removal.
 Amendment 001 - Extends the completion date to 2/28/2014 as additional time is needed to complete the structural assessment that is described in this TDD. There is no increase in cost/fee.
 Base ORIG - The contractor will assist EPA with acquiring access agreements on the Acoma Pueblo. This project is a radiation assessment of residential properties. The funding for this TDD is \$250,000.