FINAL
ANALYSIS OF BROWNFIELDS CLEANUP ALTERNATIVES

Mt. Shasta Old Mill
Mt. Shasta, Siskiyou County, California

Prepared for:
U.S. Environmental Protection Agency
Region 9

USACE Contract Number: W91238-11-D-0001
Project No.: 20074.063.515.1007.01

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Prepared by:

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Approved by: _____ 4/21/2017
Tara Fitzgerald, Project Manager Date
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LIST OF ABBREVIATIONS AND ACRONYMS

2,3,7,8-TCDD	2,3,7,8-tetrachloro dibenzo-p-dioxin
ABCA	Analysis of Brownfields Cleanup Alternatives
bgs	below ground surface
CFR	Code of Federal Regulations
RWQCB	California Regional Water Quality Control Board
DTSC	Department of Toxic Substances Control
E&E	Ecology and Environment, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
ESL	Environmental Screening Level
HAZWOPER	Hazardous Waste Operations and Emergency Response
IC	Institutional Control
LDRs	Land Disposal Restrictions
LUC	Land Use Covenant
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
OEHHA	Office of Environmental Health Hazard Assessment
OSHA	Occupation Safety and Health Administration
PCP	pentachlorophenol
RCRA	Resource Conservation and Recovery Act
RSL	Regional Screening Level
Site	Mt. Shasta Old Mill Site
STLC	Soluble Threshold Limit Concentration
TBA	Targeted Brownfields Assessment
TCLP	Toxicity Characteristic Leaching Procedure
TPH-d	total petroleum hydrocarbons as diesel
TPH-mo	total petroleum hydrocarbons as motor oil
VOCs	volatile organic compounds
WESTON®	Weston Solutions, Inc.

EXECUTIVE SUMMARY

The U.S. Environmental Protection Agency (EPA) Region 9 tasked Weston Solutions, Inc. (WESTON®) under Contract Number W91238-11-D-0001 to conduct a Targeted Brownfields Assessment (TBA) consisting of a combined Phase I/II Environmental Site Assessment (ESA) at the Mt. Shasta Old Mill site in Mt. Shasta, Siskiyou County, California, herein referred to as the Site. The purpose of the TBA was to assess environmental concerns in order to facilitate redevelopment opportunities at the Site. This Analysis of Brownfields Cleanup Alternatives (ABCA) report identifies and compares different cleanup scenarios to address contaminants identified during the Phase I/II TBA (WESTON, 2016). The cleanup scenarios are ranked on effectiveness, implementability, and cost.

The Site is planned for redevelopment as part of 'The Landing' commerce park development by the City of Mt. Shasta, which will include commercial space and/or green space. Cleanup of the Site to a commercial/industrial standard will be required before planned reuse/redevelopment can begin.

The Site is currently vacant; however, there is currently unauthorized recreational use at the Site. The Site occupies 13 acres of a planned commerce park development occupying approximately 127 acres of City owned land (Figure ES-1). Historical business operations potentially contributing to contamination at the Site include the former lumber milling operations conducted between 1900 to the 1960s. A former log pond was used for storage and lumber processing. A former dip tank was used for pentachlorophenol (PCP) treatment of wood. A former boiler room and refuse burner were also located onsite for mill activities. The City of Mt. Shasta took ownership of the Site in 1989. The log pond was filled in and the dip tank, boiler room, and refuse burner were removed from the Site some time between the 1960s and 1989. The foundation of a former structure remains at the Site (Figure ES-2). The following environmental concerns were identified during the Phase I/II TBA:

- Total Petroleum Hydrocarbons in Site soil at concentrations above human health screening levels in historical samples collected in the vicinity of the former boiler room and the former refuse burner (Figure ES-3). One soil sample within the former log pond also exceeded the human health screening level for TPH-d.

- PCP in Site soil at concentrations above human health screening levels for shallow soil exposure (less than 10 feet below ground surface): commercial/industrial use in historical samples collected in the vicinity of the former dip tank (Figure ES-3).

- Dioxins/furans in Site soil at concentrations above human health screening levels for shallow soil exposure (less than 10 feet below ground surface): commercial/industrial use (Figure ES-4).

- Dioxin/furans concentrations present at the Site exceed the human health screening level for any land use/any depth soil exposure: construction worker in six soil sample locations throughout the Site. Therefore, appropriate personal protection equipment should be utilized during redevelopment activities at the Site.

Table ES-1 summarizes five cleanup options identified to address these concerns in order to protect human health. The cost estimates presented in this ABCA are rough order-of-magnitude estimates prepared solely for the comparison of the identified alternatives and should not be used as design-level estimates. The remediation costs associated with each alternative were based on the human health screening levels being used as the remediation action levels. Upon submitting a risk assessment and risk management decisions, the remediation action levels could be different than the human health screening levels, which would lower or raise the remediation costs.

Five options were evaluated for the Site based on effectiveness, implementability, and cost:

- Alternative 1-No action.

- Alternative 2- Soil Excavation and Disposal with placement of an aggregate base - Soil excavation to 1-ft below ground surface (bgs) and backfill of entire footprint containing soils with TPH and PCP exceeding human health screening levels. Soils containing dioxins exceeding human health screening levels would be left in place (Figure ES-5). A land use covenant (LUC) would be put in place for the remaining open space with soils exceeding human health screening levels. The LUC would specify that development cannot occur in soils left in place, and that other areas with impacted surface soils may need to be fenced to prevent access within the dioxin exceedance area shown in Figure ES-5. Institutional controls (ICs) would be required within the PCP and TPH remediation areas to manage soils containing PCP or TPH above the human health screening levels that are left at depths greater than 1-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 1 ft. bgs. The ICs will also require that aggregate base used to cap the contamination is maintained. Additionally, ICs will be required within the dioxin exceedances area shown in Figure ES-5 to keep site users from exposure to soils, including, but not limited to, fencing soils containing dioxins above human health screening levels. A vegetative cap may require maintenance on soils containing dioxins above human health screening levels in order to reduce potential exposure to dioxins in fugitive dust to site users.

- Alternative 3-Soil Excavation and Disposal with placement of an aggregate base - Soil excavation to 1-ft bgs and backfill of entire footprint containing soils with TPH, PCP, and dioxins exceeding human health screenings. Additional characterization would be required to determine the full lateral extent of the dioxin contamination onsite and offsite. However, based on existing soil sampling data and for the purpose of this ABCA, the estimated area impacted by dioxins is shown on Figure ES-6. A land use covenant (LUC) would be put in place for the remaining open space with soils exceeding human health screening levels at depths below 1-ft bgs. ICs would be required within the dioxin, PCP, and TPH remediation areas to manage soils containing contaminants above the human health screening levels that are left at depths greater than 1-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 1-ft bgs. The ICs will also require that aggregate base used to cap the contamination is maintained.

- Alternative 4-Soil Excavation and Disposal with Clean Soil Replacement - Soil excavation to 4-ft bgs of entire footprint containing soils with TPH, PCP, and dioxins exceeding human health screenings. Excavated soil will be disposed of and the excavated

area will be replaced with clean imported fill. Additional characterization would be required to determine the full lateral and vertical extent of the dioxin contamination onsite and offsite (Figure ES-7). A land use covenant (LUC) would be put in place for the remaining open space with soils exceeding human health screening levels at depths below 4-ft bgs. ICs would be required within the dioxin, PCP, and TPH remediation areas to manage soils containing contaminants above the human health screening levels that are left at depths greater than 4-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 4-ft bgs. The ICs will also require that aggregate base used to cap the contamination is maintained.Alternative 5-Capping Soils Containing TPH, PCP, and dioxins above human health screening levels in place – Soil Excavation to 4-ft bgs of soils containing PCP above human health screening levels, consolidation onto Dioxin Remediation Area, Cap with Imported Fill Material and Rock. Additional characterization would be required to determine the full lateral extent of the dioxin contamination onsite and offsite. (Figure ES-8). Additional LUCs restricting complex structures (e.g. underground parking structures, ponds, and buildings with basements or deep foundations) would need to be maintained. ICs, including minor maintenance of the cap would need to be performed on an infrequent basis.

Table ES-1
Summary and Comparison of Cleanup Alternatives

Alternative	Actions	Effectiveness	Implementability	Approximate Cost[1]	Considerations
1: No Action	None	Low	Easy	None	Unable to reuse Site for planned use.
2: Soil Excavation to 1-ft bgs of soils containing TPH and PCP above human health screening levels.	Excavate to a depth of 1 feet along a path where soil contains TPH and PCP in excess of human health screening level; characterize excavated soil for disposal in accordance with the receiving facility requirements, and transport excavated soil for disposal at the appropriate facility in accordance with applicable regulations. Replace excavated soil with aggregate base. A LUC and ICs would be required within the PCP and TPH remediation areas as well as the dioxin exceedance area.	Moderate	Moderately Easy	$250,500	Based on preliminary soil waste profile sampling, excavated soil is not a California hazardous waste. The soil would be transported to an appropriate landfill. Assumes soil can be stockpiled onsite while awaiting disposal characterization. Restricted use of the Site would be required in perpetuity. –If PCP-containing wastes are subject to Land Disposal Restrictions per 40 CFR 264-268, disposal costs are likely to increase by approximately one order of magnitude. ICs enacted will require monitoring in perpetuity.
3: Soil Excavation to 1-ft bgs of soils containing TPH, PCP, and dioxins above human health screening levels.	Excavate to a depth of 1 feet throughout Site where soil contains TPH, PCP, and/or dioxins/furans in excess of the human health screening level; characterize excavated soil for disposal in accordance with the receiving facility requirements, and transport excavated soil for disposal at the appropriate facility in accordance with applicable regulations. Replace excavated soil with aggregate base. A LUC and ICs would be required within the dioxin, PCP, and TPH remediation areas.	Moderate to High	Moderately Easy	$1,780,000	Based on preliminary soil waste profile sampling, excavated soil is not a California hazardous waste. The soil would be transported to an appropriate landfill. Assumes soil can be stockpiled onsite while awaiting disposal characterization. If PCP and or dioxin containing wastes are subject to Land Disposal Restrictions per 40 CFR 264-268, disposal costs are likely to increase by approximately one order of magnitude. ICs enacted will require monitoring in

					perpetuity.
4: Soil Excavation to 4-ft bgs of soils containing TPH, PCP, and dioxins above human health screening levels..	Excavate to a depth of 4 feet throughout Site where soil contains TPH, PCP, and/or dioxins/furans in excess of the human health screening level; characterize excavated soil for disposal in accordance with the receiving facility requirements, and transport excavated soil for disposal at the appropriate facility in accordance with applicable regulations. Replace excavated soil with clean fill. A LUC and ICs would be required within the dioxin, PCP, and TPH remediation areas.	Moderate to High	Moderately Easy	$5,985,000	Based on preliminary soil waste profile sampling, excavated soil is not a California hazardous waste. The soil would be transported to an appropriate landfill. Assumes soil can be stockpiled onsite while awaiting disposal characterization. If PCP and or dioxin containing wastes are subject to Land Disposal Restrictions per 40 CFR 264-268, disposal costs are likely to increase by approximately one order of magnitude. ICs enacted will require monitoring in perpetuity.
5: Consolidation of soils containing PCP and TPH above human health screening levels on the dioxin remediation area and cap placement.	Cover assumed to be constructed over cleared and grubbed contaminated areas. Overlay contaminated areas plus 5% extra with geotextile fabric. Total cap area assumed to be 144,200 sq. ft. Assume cap will be hydroseeded with CA native pasture mix for erosion control. A LUC and ICs would be required within the dioxin, PCP, and TPH remediation areas.	Moderate to High	Moderately Difficult	$1,450,000	Assumes any maintenance costs will be borne by applicant as part of normal site maintenance and landscaping (no on-going O&M costs were included). Likely to prevent building of most, if not all, structures in this area. LUCs would need to be in place while waste remains onsite. ICs enacted will require monitoring in perpetuity.

Notes:

1 The cost estimates presented in this ABCA are rough order of magnitude estimates prepared solely for the comparison of the identified alternatives and should not be used as design-level estimates.

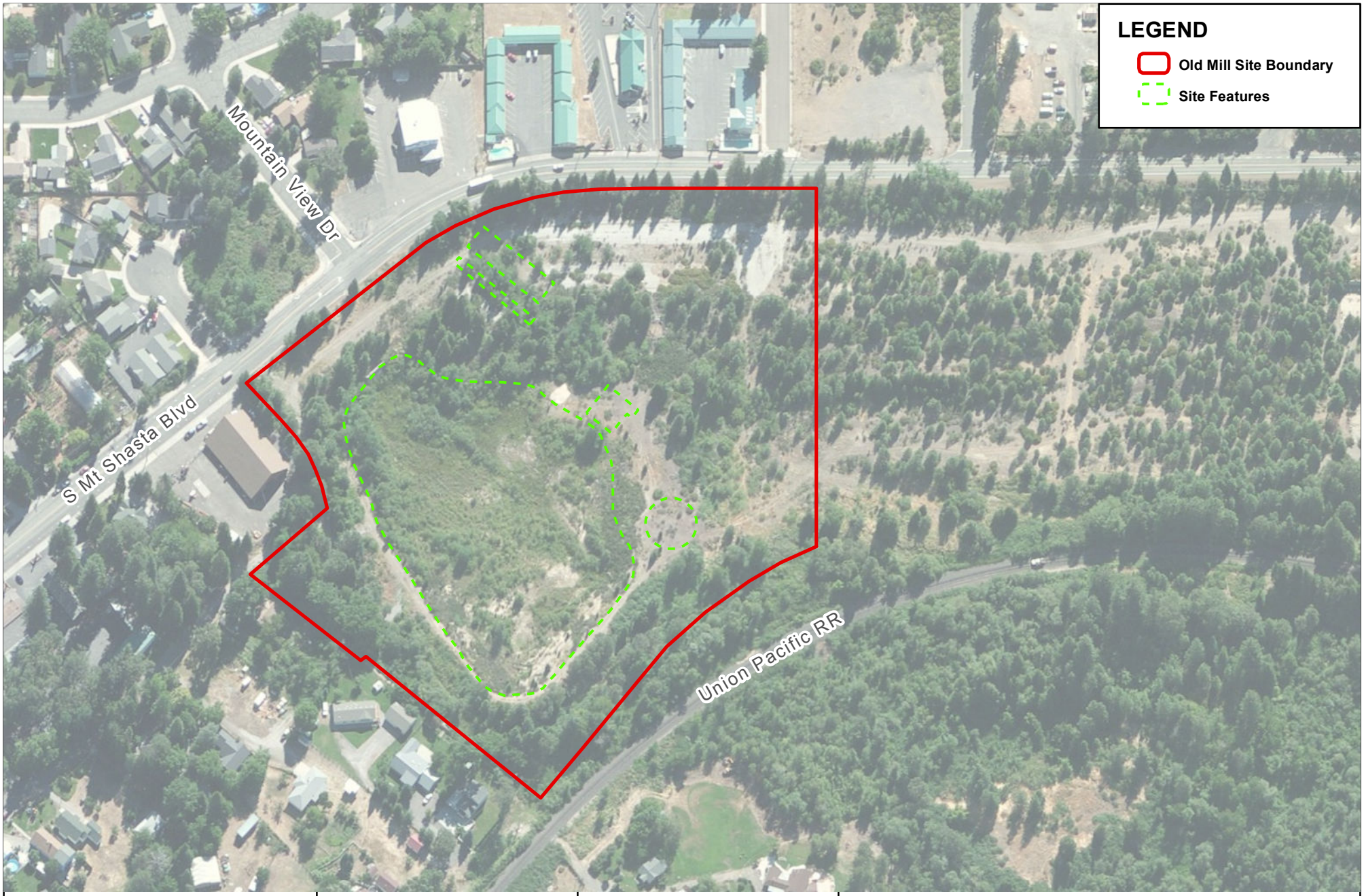

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FIGURE ES-1
Site Summary Map
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

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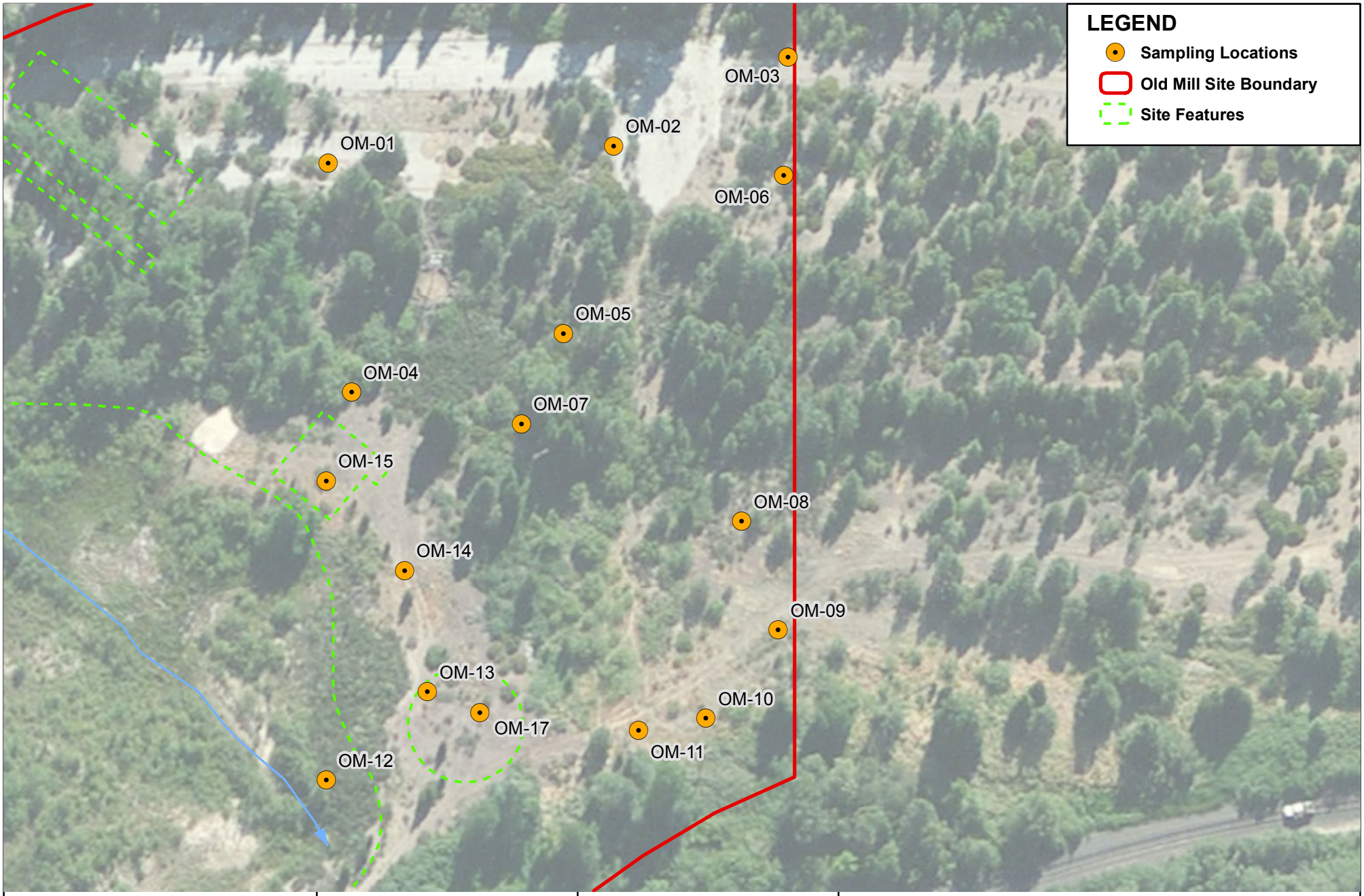

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FIGURE ES-2
Sampling Locations
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

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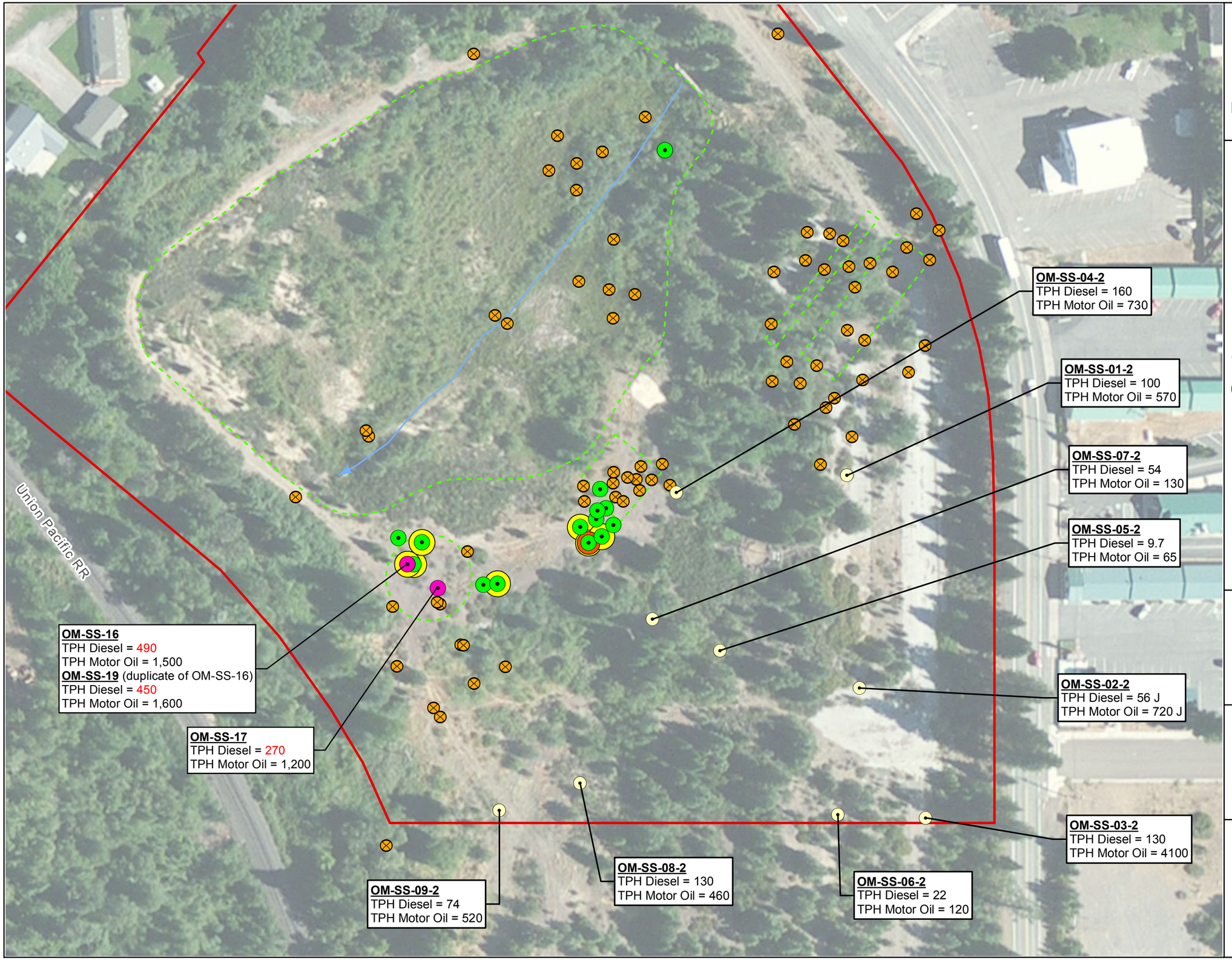
FIGURE ES-3
TPH Soil Sampling Exceedances
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment



LEGEND

- Old Mill Site Boundary
- Site Features

2016 TBA Sampling Locations with TPH Commercial ESL Exceedances

- TPH-d Exceedances at 0-2 ft bgs
- **No Exceedances**

Historical Samples with TPH Commecial ESL Exceedances

- **TPH-d / TPH-mo Exceedances at 0-1 ft bgs**
- **TPH-d / TPH-mo Exceedances at 1-2 ft bgs**
- **TPH-d / TPH-mo Exceedances at 4-5 ft bgs**
- **No Exceedances**

Notes:
All result units are in mg/kg.
TPH-d Screening Level = 230 mg/kg.
TPH-mo Screening Level = 5,100 mg/kg
TPH results in red exceed the screening level.
Abbreviations:
bgs = below ground surface
ESL = Environmental Screening Level
ft = foot
TBA = Targeted Brownfields Assesment
TPH-d = total petroleum hydrocarbons as diesel
TPH-mo = total petroleum hydrocarbons as motor oil

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0 Scale in Feet 200

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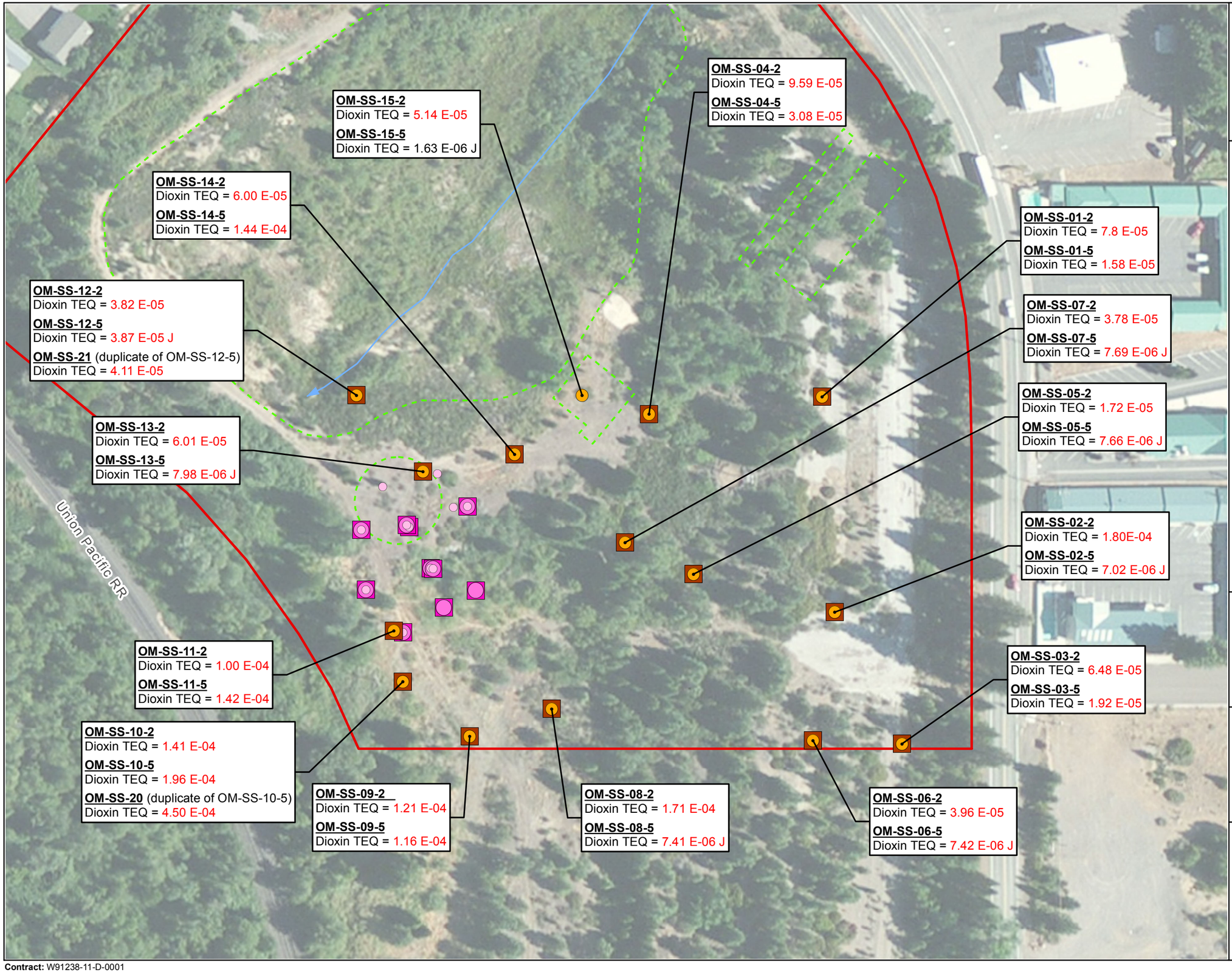
FIGURE ES-4
Dioxins/Furans Soil Sampling Exceedances
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment



LEGEND

- Old Mill Site Boundary
- Site Features

2016 TBA Sampling Locations with Total Dioxin TEQ Commercial ESL Exceedances

- Exceedances at 4 to 5 ft bgs
- Exceedances at 0 to 2 ft bgs

Historical Samples with Total Dioxin TEQ Exceedances

- Exceedances at 1 ft bgs
- Exceedances at 2 ft bgs
- Exceedances at 5 ft bgs

Notes:
All result units are in mg/kg.
Total Dioxin Screening Level = 4.9 E-06 mg/kg.
Dioxin results in red exceed the screening level.

Abbreviations:
bgs = below ground surface
ESL = Environmental Screening Level
ft = Foot
TBA = Targeted Brownfields Assesment
TEQ = Toxic Equivalents

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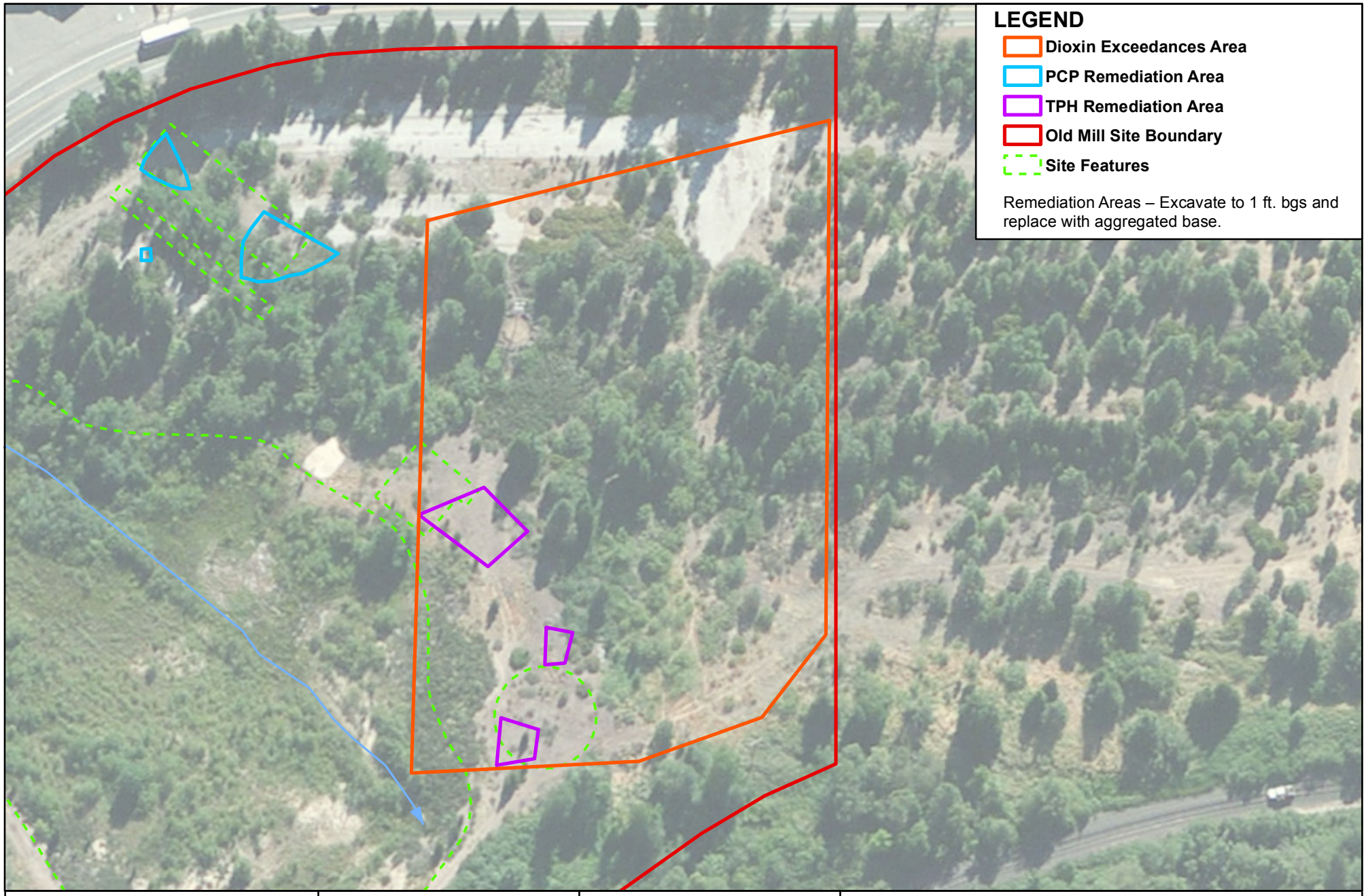

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FIGURE ES-5
Alternative 2
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

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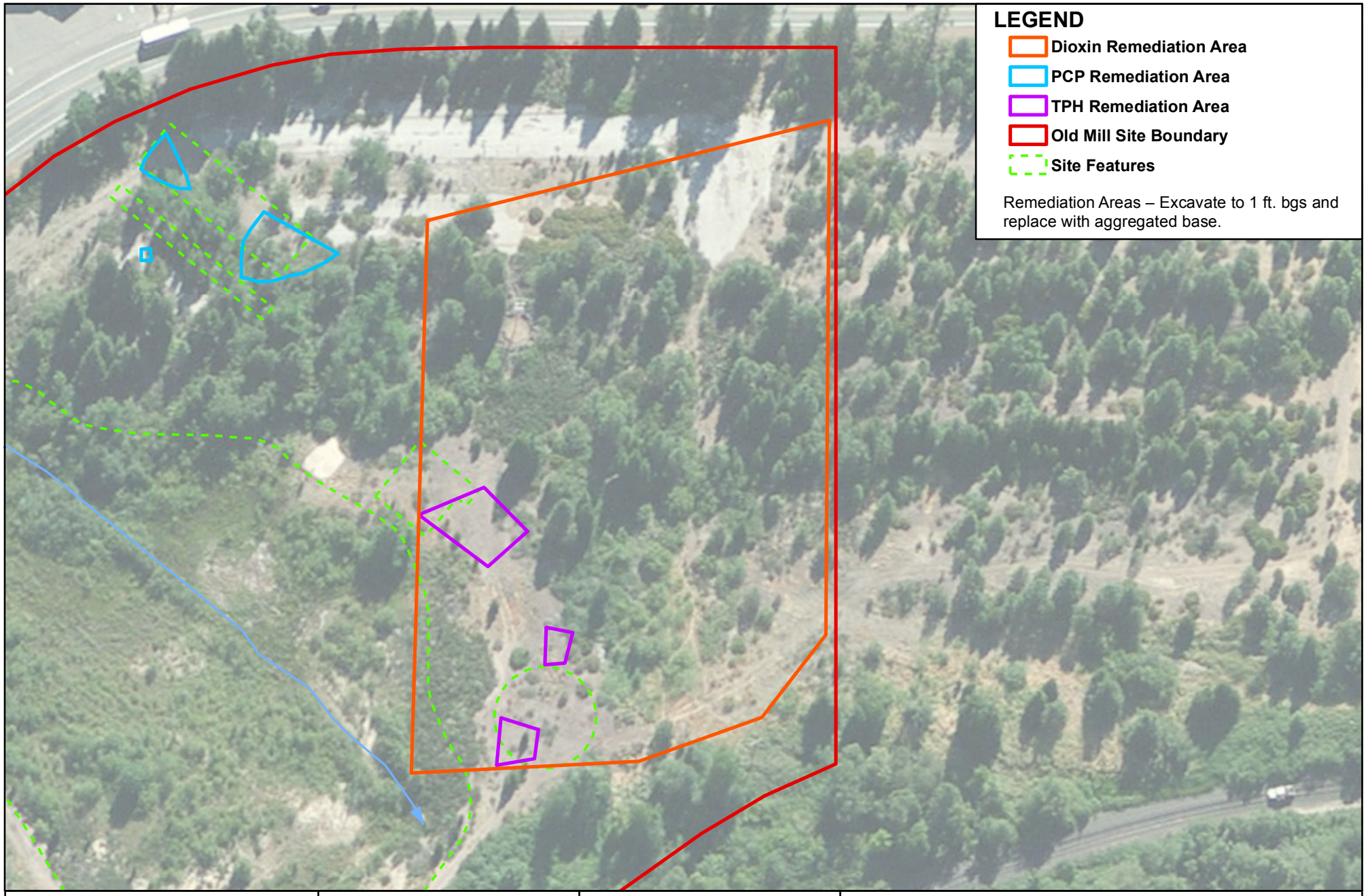

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FIGURE ES-6
Alternative 3
Mt. Shasta Old Mill Site
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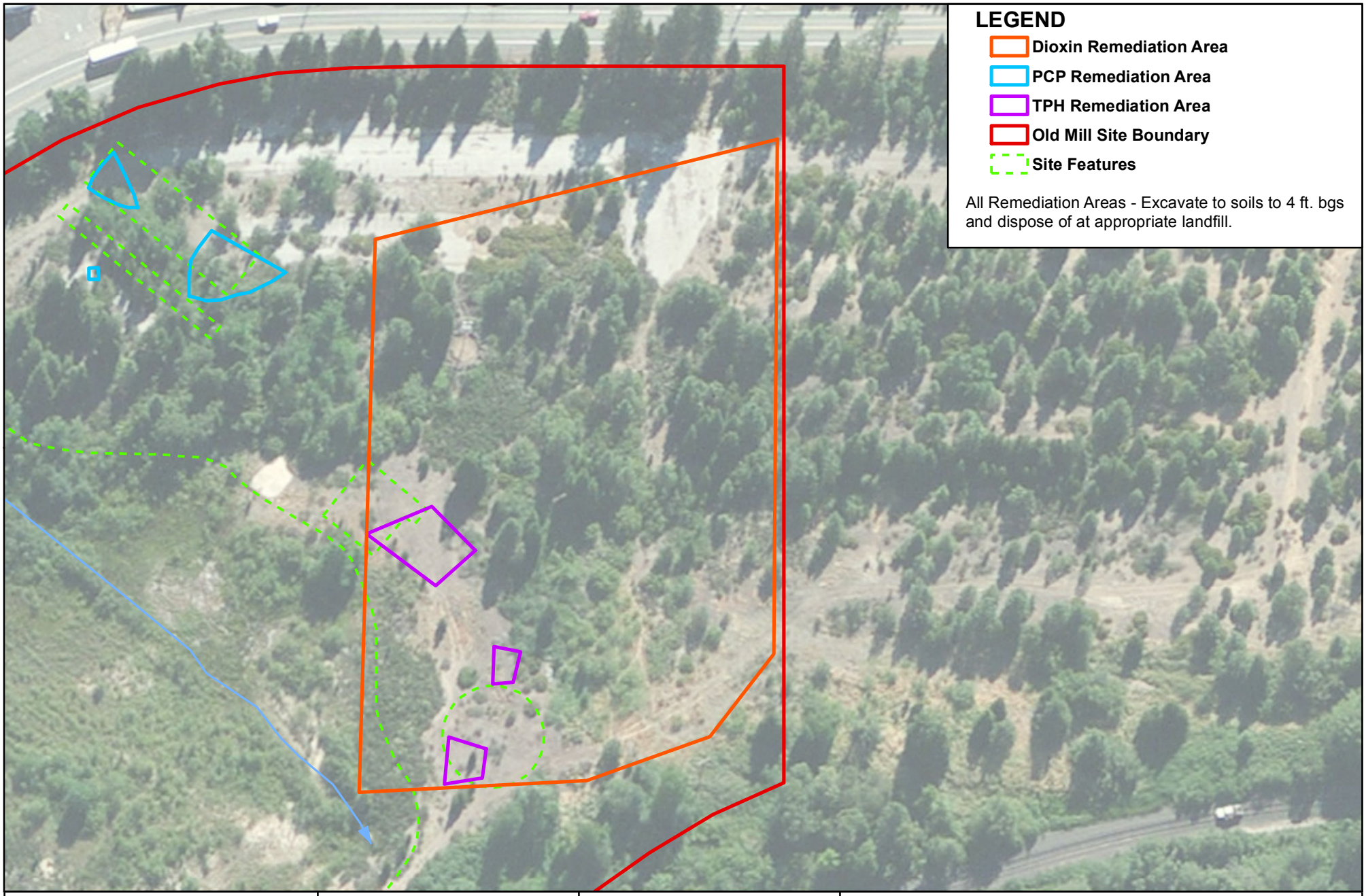

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FIGURE ES-7
Alternative 4
Mt. Shasta Old Mill Site
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Targeted Brownfields Assessment

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Work Order No: 20074.063.515.1007.01

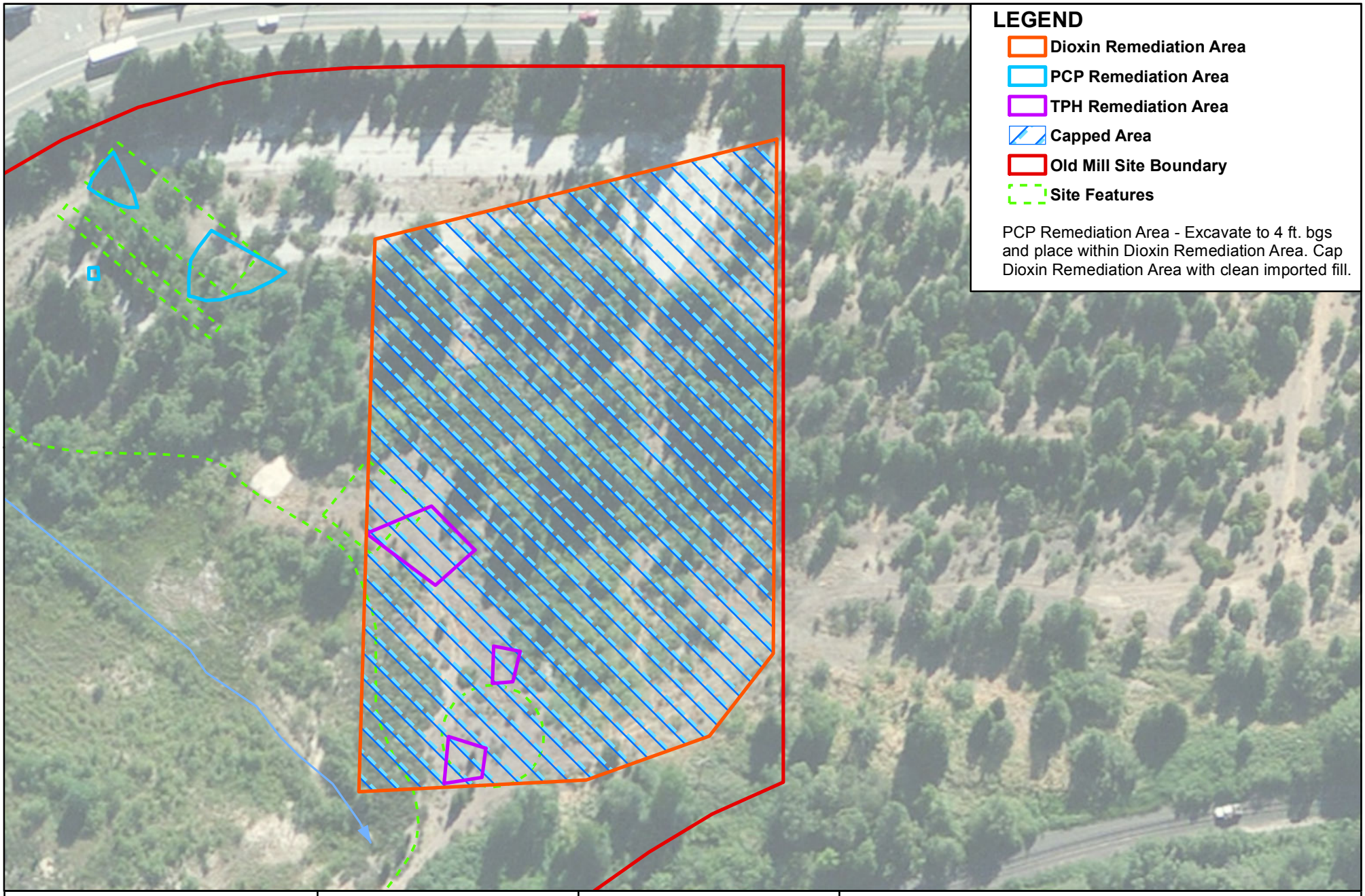

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FIGURE ES-8
Alternative 5
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

1. INTRODUCTION AND BACKGROUND

The U.S. Environmental Protection Agency (EPA) Region 9 tasked Weston Solutions, Inc. (WESTON®) under Contract Number W91238-11-D-0001 to conduct a Targeted Brownfields Assessment (TBA) consisting of a combined Phase I/II Environmental Site Assessment (ESA) at the Mt. Shasta Old Mill site in Mt. Shasta, Siskiyou County, California, herein referred to as the Site (Figure 1). The TBA was conducted to characterize conditions at the Site because it is being considered for planned redevelopment or reuse. The Site is currently unused, but is planned for redevelopment as part of 'The Landing' commerce park development by the City of Mt. Shasta, which will include commercial space and/or green space.

The purpose of this ABCA is to evaluate possible remedial alternatives based on Site conditions and the anticipated reuse of the Site. This evaluation will be expanded, modified if necessary, and incorporated into the final Site Cleanup Plan for review by the community, project partners, the regulatory oversight agency, and EPA.

1.1 SITE LOCATION

The Site is located in the southern portion of the City of Mt. Shasta, Siskiyou County, California (Figure 1). The Site occupies 13 acres of a planned commerce park development occupying approximately 127 acres of City-owned land. The Site occupies a portion of the Assessor's Parcel Number 067-010-010. The Site is bordered on the north and east by commercial and residential properties, to the south by undeveloped land, and the remainder of the parcel, which is also a former lumber mill, and to the west by the Union Pacific Railroad Company rail line. The Site is currently vacant, but was previously the location of lumber milling operations. The Site layout and outlines of the former milling operations are shown on Figure 2.

The Site is currently vacant; however there is currently unauthorized recreational use being conducted at the Site. In the immediate vicinity of the Site, the historical land use has been mixed industrial, commercial, and residential.

1.2 OWNERSHIP AND PREVIOUS USE

The Phase I ESA identified that the primary land use at the Site has been industrial. Historical business operations potentially contributing to contamination at the Site include the former milling operations conducted between 1900 to the 1960s. A former log pond was used for storage and lumber processing. A former dip tank was used for PCP treatment of wood. A former boiler room and refuse burner were also located onsite for mill activities. The City of Mt. Shasta took ownership of the Site in 1989. The log pond was filled in and the dip tank, boiler room, and refuse burner were removed from the Site some time between the 1960s and 1989.

1.3 PREVIOUS INVESTIGATIONS

In 1998, Ecology & Environment, Inc. (E&E) conducted a Targeted Site Assessment that focused on the area of the historical lumber mill operations and included soil, sediment, surface water, and groundwater sampling (E&E 1998). Laboratory analytical results for PCP, total petroleum hydrocarbons (TPH) as diesel (TPH-d), and dioxins/furans were above human health

screening levels in shallow soil samples collected from various locations at the Site. The highest TPH-d concentration of 47,000 milligrams per kilogram (mg/kg) was detected in a soil sample from the former dip tank and transfer pit area. PCP and TPH as gasoline (TPH-g) were detected in two groundwater samples at concentrations of 12 micrograms per liter (µg/L) and 734 µg/L, respectively. Volatile organic compounds (VOCs) were not detected in any of the soil or water samples. It is unclear if the samples were analyzed for VOCs using EPA Method 8260.

In 2005, a follow up Targeted Site Assessment was conducted by E&E to further assess contamination in soil, groundwater, and surface water (E&E, 2005). Laboratory analytical results for PCP and TPH as motor oil (TPH-mo) were above human health screening levels in shallow soil samples collected from various locations at the Site. The highest TPH-mo concentration was detected in a soil sample collected near the former dip tank and transfer pit at a concentration of 2,700 mg/kg. Groundwater sampling results for PCP, TPH-d, and TPH-mo were above human health screening levels at some locations.

In 2007, a Targeted Site Investigation was conducted by URS Corporation (URS) to further assess the PCP and TPH-d contaminated soil and groundwater west of the former dip tank and transfer pit (URS, 2007). At one boring on the western edge of the former dip tank, PCP and TPH-d concentrations were detected at concentrations above human health screening levels in the soil and groundwater samples.

In 2013 and 2014, Geocon Consultants, Inc. (Geocon) conducted a Phase II ESA to further assess the extent of contamination at the Site and determine whether additional assessment or cleanup would be necessary prior to developing the Site. Soil containing PCP concentrations above human health screening levels were generally limited to the former dip tank area and the area southwest of it (Geocon, 2014). Soil samples containing TPH-d concentrations above human health screening levels were limited to the north end of the former transfer pit, the area southwest of the former boiler room, and the areas north and east of the former refuse burner. Dioxins/furans concentrations were detected in soil samples collected in the area surrounding the former refuse burner at concentrations above human health screening levels.

In 2015, Geocon conducted a Final Targeted Site Investigation to further evaluate the extent of contaminants at the Site and build on the findings of the previous investigations. Previous investigations had identified PCP and TPH-d concentrations above human health screening levels in soil and groundwater, which were limited to the former building footprint and southwest of the former building. Sampling and analysis was conducted by Geocon to define the extent of these contaminants in soil and groundwater. From the investigation, it was determined that the lateral extent of TPH-d in soil had not been defined to the southwest of the former boiler room, nor had the downgradient extent of TPH-d in groundwater been delineated. TPH-d and TPH-mo impacts to groundwater in the area north of the refuse burner were identified but their extent had not been defined. TPH-d and TPH-mo impacts to sediments in Mill Creek and the log pond were observed, but no significant impacts of any analyte of concern were observed in surface water at this location.

1.4 PROJECT GOAL

The project goal is to mitigate exposure to the identified contaminants to levels appropriate for the planned redevelopment as a commercial property.

2. APPLICABLE REGULATIONS AND CLEANUP STANDARDS

2.1 CLEANUP OVERSIGHT RESPONSIBILITY

The City of Mt. Shasta has entered into a Voluntary Cleanup Agreement (VCA) with the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). Voluntary Cleanup Program Properties are low-threat-level properties with either confirmed or unconfirmed contaminant releases where the project proponents have request that DTSC oversee investigation and/or cleanup activities, and have agreed to provide coverage for DTSC's costs. The assumptions discussed in Sections 3 and 4 would require DTSC concurrence.

2.2 CLEANUP STANDARDS FOR MAJOR CONTAMINANTS

Cleanup standards for metals detected at the Site are based on the California Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) – Direct Exposure Human Heath Levels for Commercial/Industrial Shallow Soil Exposure. The ESL for dioxin (2,3,7,8-TCDD) is $2.2x10^{-5}$ mg/kg and PCP is 4 mg/kg. TPH results are compared to RWQCB Tier 1 ESLs for TPH-d and TPH-mo, which are 230 mg/kg and 5,100 mg/kg, respectively. For the purpose of the ABCA, the ESLs were assumed to be the potential cleanup standard. DTSC concurrence with the proposed cleanup standards would be required.

2.3 LAWS AND REGULATIONS APPLICABLE TO THE CLEANUP

This section is for informational purposes only and the TBA applicant (or the party undertaking the cleanup) is responsible for ensuring compliance with all applicable laws and regulations.

Cleanup activities at the Site should be conducted by contractors operating in accordance with the U.S. Department of Labor Occupational Safety & Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) standard codified at 29 Code of Federal Regulations (CFR) 1910.120. The HAZWOPER standard applies to cleanup operations required by federal, state, local, or other governmental body involving hazardous substances.

Federal laws and regulations applicable to this cleanup include the Small Business Liability Relief and Brownfields Revitalization Act and the Davis-Bacon Act. Federal, state, and local laws regarding procurement of contractors to conduct the cleanup are also applicable.

In addition, excavation and grading permits and underground service alert notifications are potentially required prior to cleanup activities. The SCEMD would be contacted for potential input regarding work plan preparation and permitting.

Soil containing PCP and dioxins/furans that is taken off site for disposal may be subject to Land Disposal Restrictions (LDRs) specified in 40 CFR 268.30 (Wood Preserving Wastes) and 268.31 (Dioxin-Containing Wastes). Currently, detected concentrations in soil samples collected from the site do not appear to exceed the standards listed in 40

CFR 268 Subpart D-Treatment Standards with some exceptions for PCP. However, if waste profile sampling results exceed the treatment standards and the wastes are subject to LDRs, the estimated costs for off-site disposal would increase by approximately one order of magnitude.

3. EVALUATION OF BROWNFIELDS CLEANUP ALTERNATIVES

3.1 CLEANUP ACTION OBJECTIVES

The cleanup action objective is to mitigate the identified contaminants to levels appropriate for the planned reuse as a future commercial park and/or green space.

Results of the Phase II TBA sampling effort identified TPH, PCP, and dioxins/furans at concentrations exceeding the human health screening levels for this analyte. TPH, PCP, and dioxins/furans were reported above the human health screening level in surface and subsurface soil throughout the Site (Figure 3).

A preliminary waste characterization evaluation soils potentially requiring disposal indicates that contaminated soil at the Site would likely be classified as non-hazardous waste.

3.2 IDENTIFICATION AND EVALUATION OF CLEANUP ALTERNATIVES

Based on the planned reuse, five options were evaluated: (1) No action; (2) Soil Excavation to 1-ft bgs of soils containing TPH and PCP above human health screening levels, Disposal, Replacement with an aggregate base; (3) Soil excavation within the footprint of soils containing dioxins above the human health screening level to 1-ft bgs, off-site disposal as a non-hazardous waste, and placement of an aggregate base along the footprint; (4) Soil excavation to 4 ft bgs, confirmation soil sampling, and disposal as a non-hazardous waste, and adding clean fill to the excavated area.; and (5) Excavation and consolidation of soils containing TPH and PCP above human health screening levels onto the dioxin remediation area and capping with soil and rock.

Each cleanup alternative was first evaluated to determine whether it would achieve the overall project goal to mitigate the identified contaminants to levels appropriate for the planned reuse. Those alternatives deemed capable of achieving the overall project goal were further evaluated for effectiveness, implementability, and cost. The cost estimates presented in this document are rough order-of-magnitude estimates that were prepared solely for the comparison of the identified alternatives and should not be used as design-level estimates. The remediation costs associated with each alternative were based on the human health screening levels being used as the remediation action levels. Upon submitting a risk assessment and risk management decisions, the remediation action levels could be different than the human health screening levels, which would lower or raise the remediation costs.

The proposed alternatives do not remove all contaminants and there may be potential threats to groundwater that are not addressed by the remedial measures proposed in this ABCA. Therefore, if implemented alone, none of the alternatives is expected to achieve site closure. A description of each alternative and the results of the comparative analysis are presented below.

Alternative 1 – No Action

The No Action Alternative is included as a baseline for comparison to the other proposed alternatives. The No-Action Alternative assumes that the impacted media would remain in place without treatment.

Effectiveness: This alternative would not provide for mitigation of the actual or potential risks posed by the impacted media. If no corrective action is taken, the Site cannot be reused for commercial purposes. Casual trespassers would continue to be potentially exposed to contaminants.

Implementability: This alternative is easily implemented.

Cost: No costs would be incurred during the implementation of this alternative.

Alternative 2 – Soil Excavation to 1-ft bgs of soils containing TPH and PCP above human health screening levels, Disposal, Replacement with an aggregate base

Implementing this alternative would remove soils along a pathway to a maximum depth of 1 foot bgs. The soils would be excavated from specified areas that exceeded the human health TPH screening levels or human health PCP screening levels (Figure 5). As the remaining soils exceeding human health screening levels will be left in place, additional site characterization will not be conducted to determine the lateral or vertical extent of contamination. Additional site characterization leading offsite is required to determine the lateral extent of dioxin contamination and that characterization is not included as part of this cost estimate. An estimated 4,100 square feet of soil will be removed to a depth of 1 feet bgs at the Site. Approximately 300 square feet would be excavated from the PCP remediation area and 3800 square feet would be excavated from the TPH remediation area. The existing trees and stumps will need to be removed to excavate impacted soil at the Site. Approximately 152 bank cubic yards (measurement or calculation of soil or rock in its natural state), or 228 tons, of excavated soil is anticipated to require disposal as a non-hazardous waste. Approximately 11 bank cubic yards of PCP impacted soil and 141 bank cubic yards of TPH impacted soil would be excavated and disposed of off-site.

The excavated soil would be stockpiled on-site, pending laboratory analysis for waste characterization (3 waste characterization samples assumed). The TBA sample results suggest that the soil would be a non-hazardous waste. The excavated soil would be transported off-site for disposal at an appropriately licensed treatment/disposal facility. The excavation would be backfilled and compacted with aggregate base.

A land use covenant (LUC) would be put in place for the remaining open space with soils exceeding human health screening levels. The LUC would specify that development cannot occur in soils left in place, and that other areas with impacted surface soils may need to be fenced to prevent access within the dioxin exceedance area shown in Figure 5. Institutional controls (ICs) would be required within the PCP and TPH remediation areas to manage soils containing PCP or TPH above the human health screening levels that are left at depths greater than 1-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 1 ft. bgs. The ICs will also require that aggregate base used to cap the contamination is maintained. Additionally, ICs will be required within the dioxin

exceedances area shown in Figure ES-5 to keep site users from exposure to soils, including, but not limited to, fencing soils containing dioxins above human health screening levels. A vegetative cap may require maintenance on soils containing dioxins above human health screening levels in order to reduce potential exposure to dioxins in fugitive dust to site users.

Effectiveness: Excavation will remove contaminated soil from the surface and shallow subsurface in areas that will be utilized by recreational users, reducing the threat of accidental ingestion and/or dermal contact to current and future Site users. The LUC will require enforcement and maintenance to reduce the threat of accidental ingestion and/or dermal contact to future Site users. This alternative is unlikely to significantly reduce potential impacts to groundwater.

Implementability: Implementing this alternative does not require special equipment, material, or labor. The Site is not in challenging terrain or an especially remote location. The proposed remedial method has been accepted by regulators as a valid type of remedial method at other similar sites. The Site is currently vacant. Access to streets and freeways would be largely unaffected, with minimal disruption to the local residents. For the above reasons, this alternative is considered moderately easy to implement.

Cost: A rough order-of-magnitude estimate of costs for the additional characterization, excavation, and disposal alternative is $250,000. The costs also include preparation of work plans and completion reports, an allowance for agency oversight costs (price to be requested during project implementation), and an allowance for permits.

In the event that City of Mt. Shasta chooses to remediate a smaller portion of the site for reuse, labeled Redevelopment Area 1 in the Geocon 2014 ABCA report, which only encompasses the PCP remediation area for Alternative 2, the estimated cost is $193,500 (Geocon, 2014). Approximately 300 square feet would be excavated from the PCP remediation area. Approximately 11 bank cubic yards of PCP impacted soil would be excavated and disposed of off-site.

Alternative 3 – Soil Excavation to 1-ft bgs of soils containing TPH, PCP, and dioxins above human health screening levels, Disposal, Replacement with an aggregate base

The soil excavation, confirmation sampling, and off-site disposal as a non-hazardous waste alternative would remove soils along a pathway to a maximum depth of 1 foot bgs from the Site that exceeded the human health TPH screening levels, human health PCP screening levels and/or human health dioxins screening levels (Figure 6). As the remaining soils exceeding human health screening levels will be left in place, additional site characterization will not be conducted to determine the vertical extent of contamination. Additional site characterization onsite as well as leading offsite is required to determine the lateral extent of dioxin contamination and that characterization is estimated as requiring one characterization sample every 50 feet in the estimated excavation areas as part of this cost estimate. An estimated 137,320 square feet of soil will be removed to a depth of 1 feet bgs at the Site. Approximately 300 square feet would be excavated from the PCP remediation area and 137,000 square feet would be excavated from the dioxin remediation area. The TPH remediation area, which is contained within the dioxin remediation area as shown in Figure 6, encompasses 3,800 square feet. The existing trees and

stumps will need to be removed to excavate impacted soil at the Site. Based on the detected concentrations of TPH, PCP, and dioxins, approximately 5,086 bank cubic yards (measurement or calculation of soil or rock in its natural state), or 7,629 tons, of excavated soil is anticipated to require disposal as a non-hazardous waste. Approximately 11 bank cubic yards of PCP impacted soil and, 4,934 bank cubic yards of dioxin impacted soils, and 141 bank cubic yards of TPH and dioxin impacted soil would be excavated and disposed of off-site.

The excavated soil would be stockpiled on-site, pending laboratory analysis for waste characterization (23 waste characterization samples assumed). The TBA sample results indicate that the soil would be a non-hazardous waste. The excavated soil would be transported off-site for disposal at an appropriately licensed treatment/disposal facility. After placing a geotextile barrier that would act as a marker that delineates the contact with contaminated material on the excavation bottom, the excavation would be backfilled and compacted with aggregate base.

A LUC would be put in place for the remaining open space with soils exceeding human health screening levels. The LUC would specify that below-grade development cannot occur in contaminated soils left in place, unless additional remedial measures are taken. This may prevent building structures such as office or commercial buildings in this area, although other uses such as a parking lot or open space may be allowed. ICs would be required within the dioxin, PCP, and TPH remediation areas to manage soils containing contaminants above the human health screening levels that are left at depths greater than 1-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 1-ft bgs. The ICs will also require that aggregate base used to cap the contamination is maintained.

Effectiveness: Excavation will remove contaminated soil from the surface and shallow subsurface areas in areas that will be utilized by recreational users, reducing the threat of accidental ingestion and/or dermal contact to current and Site users. The LUC will require enforcement to reduce the threat of accidental ingestion and/or dermal contact to future Site users. This alternative is unlikely to provide significant protection to burrowing animals and other subsurface receptors. This alternative is unlikely to significantly reduce potential impacts to groundwater.

Implementability: This alternative includes collection of disposal profile sampling of excavated soil, off-site soil disposal, backfilling with clean soil, and the placement of aggregate base. The Site is currently vacant. Implementing this alternative does not require special equipment, material, or labor. The Site is not in challenging terrain or an especially remote location. The proposed remedial method has been accepted by regulators as a valid type of remedial method at other similar sites. Access to streets and freeways would be largely unaffected, with minimal disruption to the local residents. This alternative is moderately easy to implement.

Cost: A rough order-of-magnitude estimate of costs for the additional characterization, excavation, and disposal work is $1,780,000. The costs also include preparation of work plans and completion reports, an allowance for agency oversight costs (price to be requested during project implementation), and an allowance for permits.

In the event that City of Mt. Shasta chooses to remediate a smaller portion of the site for reuse, labeled Redevelopment Area 1 in the Geocon 2014 ABCA report, which only encompasses the PCP remediation area and a portion of the dioxin remediation area, the estimated cost is

$517,000 (Geocon, 2014). Approximately 300 square feet would be excavated from the PCP remediation area and 23,173 square feet would be excavated from the dioxin remediation area. TPH impacted soils are not within the footprint of Remediation Area 1. Approximately 11 bank cubic yards of PCP impacted soil and 858 bank cubic yards of dioxin impacted soils would be excavated and disposed of off-site.

Alternative 4 – Soil Excavation to 4-ft bgs of soils containing TPH, PCP, and dioxins above human health screening levels, Disposal, Clean Soil Fill Replacement

The soil excavation, confirmation sampling, and off-site disposal as a non-hazardous waste alternative would remove soils within the footprint of soils exceeding the human health screening levels to a maximum depth of 4 ft bgs from the Site that exceeded the human health TPH, PCP, and dioxin screening levels (Figure 7). If required, additional site characterization will be conducted to characterize the residual soils. Additional site characterization would likely be required to determine the lateral extent of dioxin contamination. That characterization work is estimated as requiring one characterization sample every 50 feet in the estimated excavation areas as part of this cost estimate. Based on Phase II TBA results, contamination is present at depths greater than 4 feet bgs in parts of the Site. Therefore, additional excavation may be required for site reuse or site closure requirements. At the request of the EPA, the cost estimate is provided for excavation to 4 ft bgs only. An estimated 137,300 square feet of soil will be removed to a depth of 4 ft bgs at the Site. Approximately 300 square feet would be excavated from the PCP remediation area and 137,000 square feet would be excavated from the dioxin remediation area. The TPH remediation area, which is contained within the dioxin remediation area as shown in Figure 6, encompasses 3,800 square feet. The existing trees and stumps will need to be removed to excavate impacted soil at the Site. A geotextile fabric or similar warning barrier layer would be installed on the excavation bottom. Based on the Phase II TBA sample results, approximately 20,341 bank cubic yards (measurement or calculation of soil or rock in its natural state), or 1,387 tons, of excavated soil is anticipated to require disposal as a non-hazardous waste. Approximately 44 bank cubic yards of PCP impacted soil and, 19,736 bank cubic yards of dioxin impacted soils, and 564 bank cubic yards of TPH and dioxin impacted soil would be excavated and disposed of off-site.

The excavated soil would be stockpiled on-site, pending laboratory analysis for waste characterization (84 waste characterization samples assumed). The TBA sample results suggest that the soil would be a non-hazardous waste. The excavated soil would be transported off-site for disposal at an appropriately licensed treatment/disposal facility. The excavation would be backfilled with clean soil.

A land use covenant (LUC) would be put in place for the remaining open space with soils exceeding human health screening levels at depths below 4-ft bgs. Additional LUCs may need to be put in place to prevent structures that require deep soil excavation work (e.g. underground parking structures, ponds, and buildings with basements or deep foundations) without additional considerations, which may include additional excavation work.

ICs would be required within the dioxin, PCP, and TPH remediation areas to manage soils containing contaminants above the human health screening levels that are left at depths greater than 4-ft bgs by restricting access to the soils and requiring a soil management plan in the event construction occurs at depths below 4-ft bgs. The ICs will also require that aggregate base used

to cap the contamination is maintained.

Effectiveness: Excavation will remove contaminated soil from the surface and shallow subsurface areas in areas that will be utilized by recreational and commercial users, reducing the threat of accidental ingestion and/or dermal contact to current and Site users. Implementing this alternative may allow for more complex structures, such as slab-on-grade buildings, to be constructed in this area.

Implementability: This alternative includes collection of disposal profile sampling of excavated soil, off-site soil disposal, and backfilling with clean soil. The Site is currently vacant. Implementing this alternative does not require special equipment, material, or labor. The Site is not in challenging terrain or an especially remote location. The proposed remedial method has been accepted by regulators as a valid type of remedial method at other similar sites. Access to streets and freeways would be unaffected, with minimal disruption to the local residents. This alternative is moderately easy to implement.

Cost: A rough order-of-magnitude estimate of costs for the additional characterization, excavation, and disposal alternative is $5,985,000. The costs also include preparation of work plans and completion reports, an allowance for agency oversight costs (price to be requested during project implementation), and an allowance for permits.

In the event that City of Mt. Shasta chooses to remediate a smaller portion of the site for reuse, labeled Redevelopment Area 1 in the Geocon 2014 ABCA report, which only encompasses the PCP remediation area and a portion of the dioxin remediation area, the estimated cost is $1,314,000 (Geocon, 2014). Approximately 300 square feet would be excavated from the PCP remediation area and 23,173 square feet would be excavated from the dioxin remediation area. TPH impacted soils are not within the footprint of Remediation Area 1. Approximately 44 bank cubic yards of PCP impacted soil and 3,432 bank cubic yards of dioxin impacted soils would be excavated and disposed of off-site.

Alternatively, a rough cost was estimated to construct an on-site repository within the dioxin remediation area shown in in Figure 7. The cost estimate for a repository is highly dependent on design decisions, such as operations and management requirements, which would be made as part of a final Record of Decision. This cost estimate assumes that it would cost approximately $3,257,000 to excavate 20,341 back cubic yards of soil, construct a geotextile and high-density polyethylene lined repository with a leachate collection system within the footprint of the Dioxin Remediation Area, and place soils impacted with TPH, PCP, and dioxins onto the HDPE liner. An HDPE liner would be placed over the waste and sealed to the bottom liner, and the area would be covered with approximately 2.5 feet of soil and 6-inches of soil mixed with rock, then hydroseeded. Operations and management of the repository would be required in perpetuity. LUCs would be required in perpetuity. Building of any complex structure could not occur.

Alternative 5 – Soil Excavation to 4-ft bgs of soils containing PCP above human health screening levels, consolidation onto Dioxin Remediation Area, Cap with Imported Fill Material and Rock

Under this alternative, soils impacted by PCP would be excavated to 4 feet bgs and consolidated

onto the cleared and grubbed dioxin remediation area (Figure 8). Approximately 300 square feet of PCP impacted soils (44 bank cubic yards) would be excavated and moved to the dioxin remediation area. If required, additional site characterization onsite and leading offsite is required to determine the lateral extent of dioxin contamination. A 3 foot thick layer of imported fill material would be placed on top of the consolidated soils. The top six inches of soil would be mixed with rock in order to discourage animal burrowing and reduce erosion. The capped area would be hydroseeded. The capped area would cover approximate 137,000 square feet of the dioxin remediation area, which includes the TPH remediation area (Figure 8).

Additional LUCs restricting complex structures (e.g. underground parking structures, ponds, and buildings with basements or deep foundations) would need to be maintained. ICs, including minor maintenance of the cap would need to be performed on an infrequent basis.

Effectiveness: Capping contaminated soil in place will reduce the threat of contact in areas that will be utilized by recreational and commercial users, reducing the threat of accidental ingestion and/or dermal contact to current and future Site users.

Implementability: This alternative includes excavation of soils, consolidation with the dioxin remediation area, and backfilling with clean soil. The Site is currently vacant. Implementing this alternative does not require special equipment, material, or labor. The Site is not in challenging terrain or an especially remote location. The proposed remedial method has been accepted by regulators as a valid type of remedial method at other similar sites. Access to streets and freeways would be largely unaffected, with minimal disruption to the local residents. This alternative is moderately easy to implement from a technical standpoint. However, regulatory agencies may require additional studies and/or additional monitoring (e.g. monitoring wells) prior to or as part of implementation, which may make implementation more difficult from an administrative standpoint. Based on these considerations, the overall implementability of Alternative 5 is considered moderately difficult.

Cost: A rough order-of-magnitude estimate of costs for the additional characterization, excavation, and disposal alternative is $1,450,000. The costs also include preparation of work plans and completion reports, an allowance for agency oversight costs (price to be requested during project implementation), and an allowance for permits.

In the event that City of Mt. Shasta chooses to remediate a smaller portion of the site for reuse, labeled Redevelopment Area 1 in the Geocon 2014 ABCA report, which only encompasses the PCP remediation area and a portion of the dioxin remediation area, the estimated cost is $556,000 (Geocon, 2014). Approximately 300 square feet of PCP impacted soils (44 bank cubic yards) would be excavated and moved to the dioxin remediation area. The capped area would cover approximate 23,173 square feet of the dioxin remediation area.

The following table identifies other cleanup alternatives that were considered for the Site that were dismissed and not analyzed as not meeting the goals of the project.

Table 3-1: Alternatives That Were Considered and Dismissed

Alternative	Actions	Considerations
On-site Repository for Alternative 2	Construct an onsite, below-ground repository for soils with TPH and PCP concentrations above human health screening levels to a depth of 1 ft. bgs.	Due the difficulty level of excavation and disposal costs for Alternative 2 as well as unknown O&M costs for an onsite repository, this Alternative is not considered effective in comparison to Alternative 2.
On-site Repository for Alternative 3	Construct an onsite, below-ground repository for soils with TPH, PCP, and dioxins concentrations above human health screening levels to a depth of 1-ft. bgs.	Due the difficulty level of excavation and disposal costs for Alternative 3, in comparison to the effort required to construct an onsite repository, as well as unknown O&M costs for an onsite repository, this Alternative is not considered effective in comparison to Alternative 3.

3.3 COMPARISON OF ALTERNATIVES

Alternative 1: *No Action* does not meet the project goal and is therefore dismissed without additional evaluation.

Alternative 2: *Soil Excavation to 1-ft bgs of soils containing TPH and PCP above human health screening levels, Disposal, Replacement with an aggregate base* is only partially protective in the short-and long-term for the planned reuse as recreational/commercial because contaminated soil is not fully removed from the Site. This alternative proposes conventional sampling and excavation methods. Similar actions are routinely performed to remediate these types of contaminants in California, and thus it is considered moderately easy to implement both technically and administratively. It is more expensive to implement than Alternative 1, but is considered the most effective and easiest to implement option if restricted use of the property is desirable and/or required. A soil management plan, possibly to include additional excavation and disposal work, would be required to determine what specific recreational uses are acceptable, as well as in the event that commercial construction is conducted to depths below 1 ft bgs in remediated areas, and to any depth in non-remediated areas. Except for Alternative 1, this alternative is the most restrictive in terms of potential reuse of the property.

Alternative 3: *Soil Excavation to 1-ft bgs of soils containing TPH, PCP, and Dioxins/Furans above human health screening levels, Disposal, Replacement with an aggregate base* is only partially protective in the short-and long-term for the planned reuse as recreational/commercial because contaminated soil is not fully removed from the Site. This alternative proposes conventional sampling and excavation methods. Similar actions are routinely performed to remediate these types of contaminants in California, and thus it is considered moderately easy to implement both technically and administratively. It is more expensive to implement than Alternatives 1 and 2, but is considered adequate if restricted use of the property is desirable and/or required. As dioxins will be removed from surface soils, it is expected that additional site uses, such as recreational open space or for a paved parking area, would be acceptable. A soil management plan, possibly to include additional excavation and disposal work, would be required in the event that commercial construction is conducted at depths greater than 1 ft bgs.

Alternative 4: *Soil Excavation to 4-ft bgs of soils containing TPH, PCP, and Dioxins/Furans above human health screening levels, Disposal, Replacement with clean soil fill* is only partially protective in the short-and long-term for the planned reuse as recreational/commercial because contaminated soil is not fully removed from the Site. This alternative proposes conventional sampling and excavation methods. Similar actions are routinely performed to remediate these types of contaminants in California, but the volume of soil to be disposed of and replaced is relatively large, and thus this alternative has the highest cost to implement of any of the proposed options.. Although it is more expensive to implement than Alternatives 1 and 2, 3, and 5 it is considered the most protective and may allow the greatest reuse of the site. However, LUCs would still need to be implemented and maintained. A soil management plan, possibly to include additional excavation and disposal work, would be required in the event that commercial construction is conducted to depths below 4 ft bgs.

The relative cost of Alternatives 3 and 4, as well as the required amount of soil excavation and disposal, may mean that these Alternatives are not feasible.

Alternative 5. Capping Soils Containing TPH, PCP, and dioxins above human health screening levels in place is protective in the short-term for the planned reuse as recreations/commercial because a barrier is placed between contaminated soil and commercial receptors. The Alternative requires long-term O&M activities that have unknown but probably minor future maintenance costs. This alternative proposes conventional sampling and remediation methods. Similar actions are routinely performed to remediate these types of contaminants in California, and thus it is considered moderately easy to implement technically. However, it is likely to be the most administratively complex of any of the Alternatives since it involves constructing an on-site repository. It is more expensive to implement than Alternatives 1 and 2, but is cost effective in comparison with Alternatives 3 and 4, which allow for similar restricted reuse of the property. A soil management plan, possibly to include additional excavation and disposal work, would be required in the event that commercial construction is conducted at any depth below ground surface.

3.4 REMEDIATION TECHNOLOGIES

EPA provides guidance for specific technologies which may be used for the remediation of hazardous wastes and other contaminants. Detailed links for EPA's remediation technology guidance, as well as case studies and demonstrations, can be found online at http://www2.epa.gov/remedytech (EPA, 2015a).

3.5 CONSIDERATION OF CLIMATE CHANGE IMPACTS

Scientific evidence demonstrates that the climate is changing at an increasingly rapid rate, outside the range to which society has adapted in the past. These changes can pose significant challenges to EPA's ability to fulfill its mission. EPA must adapt to climate change if it is to continue fulfilling its statutory, regulatory, and programmatic requirements. EPA is therefore anticipating and planning for future climate changes to ensure it continues to fulfill its mission of protecting human health and the environment even as the climate changes.

In February 2013, EPA released its draft Climate Change Adaptation Plan to the public for review and comment. The plan relies on peer-reviewed scientific information and expert judgment to identify vulnerabilities to EPA's mission and goals from climate change. The Region 9 Plan identifies vulnerabilities in Region 9, including lack of rainfall and the prospect of future droughts, reduction in groundwater supply, sea level rise, projected temperature increase and its impact on urban areas, wildfire prevalence, agricultural and ocean productivity, and habitat loss and ecosystem shift. Priority is being placed on mainstreaming climate adaptation within EPA and encouraging adaptation planning across the entire federal government.

The Site is located at an elevation of approximately 3,500 feet above mean sea level and is not vulnerable to sea-level rise. An increase in the intensity and frequency of rainfall would increase the likelihood of nearby rivers flooding. Alternatives 2, 3, or 4, which include offsite disposal, would be advantageous cleanup alternatives in accordance with the goals of the EPA's Climate Change Adaptation Plan. However, because of the reduce use of fossil fuel created by avoiding off-site long-haul disposal of soil, Alternative 5 is likely to produce far less greenhouse gas emissions in comparison to Alternatives 3 and 4.

3.6 GREEN AND SUSTAINABLE REMEDIATION GUIDANCE

When implemented effectively, green and sustainable remediation practices enhance the environmental benefits offered by federal cleanup and redevelopment programs such as the EPA Brownfields Program. The principles governing green and sustainable remediation for EPA cleanup programs have been outlined in greater detail in EPA's *Principles for Greener Cleanups* (EPA, 2009), but generally seek to "optimize environmental performance and implement protective cleanups that are *greener* by increasing our understanding of the environmental footprint and, when appropriate, taking steps to minimize that footprint."

The following benefits can be reached through preferential use of green remediation approaches:

- Waste production and use of materials can be minimized
- Impacts to water quality and water resources can be avoided
- Air emissions and greenhouse gas production can be reduced
- Natural resources and energy can be conserved

3.6.1 Administrative Suggestions

Emphasis should be placed on selecting contractors, including laboratories, which follow green remediation best management practices. Use of contractors that place priority on clean fuel and emission technologies should be encouraged. Redevelopment plans and future use of the Site should guide the type of sampling and remediation, ensuring efficient and sustainable methods. Additionally, renewable energy production facilities should be encouraged as future development possibilities. Reporting efforts, both draft and final documents, should be submitted in digital format, rather than as hard copies. Outreach to local communities should optimize the use of electronic and centralized communication.

3.6.2 Operations Suggestions

The following suggestions should be considered to help achieve green and sustainable remediation at the Site:

- Whenever possible, non-renewable energy consumption should be minimized through energy efficient equipment, use of renewable energy supply, and renewable energy generation systems on-site.
- Sustainable practices, such as utilizing existing structures, native vegetation, and natural attributes on-site, should be encouraged.
- Environmentally preferable products, such as those outlined in EPA's Sustainable Marketplace: Greener Products and Services website (EPA, 2015b), (http://www2.epa.gov/greenerproducts), should be utilized where feasible, including environmentally friendly electronics, recycled products, and energy-efficient lighting.

- Mobilization during field efforts should use fuel-efficient and/or alternative fuel vehicles when feasible, encourage carpooling, and should avoid environmentally sensitive areas when placing operations centers and command posts.
- Waste should be minimized through conservation efforts, recycling, and reuse of items. The following procedures can be followed to minimize waste:
  - Field contamination screening should use non-invasive technologies where feasible.
  - Quantity of field samples should be minimized, and mobile laboratories should be prioritized when appropriate.
  - Drilling and excavation activities should incorporate clean fuel and emissions controls, including idle reduction devices, use of ultra-low sulfur diesel and/or fuel-grade biodiesel, advanced emission controls, EPA- or California Air Resources Board-verified emission control technology, and the performance of routine engine maintenance.
  - Demolition should be minimized; instead, value should be placed on utilizing existing structures. Efficiency during transport and disposal operations should be maximized, and practices such as back-loading should be used whenever possible.

3.6.3 Bioremediation Considerations

Bioremediation potential of the Site should be examined and considered as a viable cleanup alternative. Bioremediation is a natural process which relies on bacteria, fungi, and plants to degrade, break down, transform, or essentially remove contaminants from soil and water. Bioremediation options potentially provide a low cost, non-intrusive, natural method of addressing soil contamination at a site. More information about bioremediation alternatives can be found at http://www2.epa.gov/remedytech (EPA, 2015a).

While bioremediation is often an effective and relatively inexpensive method for addressing total petroleum hydrocarbon contamination, it was not evaluated as an alternative for this site, as TPH impacted soils are also within the dioxin impacted soils footprint. In-situ and ex-situ bioremediation technologies for PCP and dioxins/furans have been evaluated as case studies. Based on the volume of TPH, PCP, and dioxin/furans impacted soils at the Site, it is unlikely that bioremediation would meet cleanup goals in a reasonable timeframe.

4. LIMITATIONS AND ADDITIONAL ASSESSMENT NEEDS

The Phase I/II TBA provided a valuable characterization of current and historical conditions of the subject property, including a summary of historical site use, previous investigations and regulatory involvement, site reconnaissance and photo documentation, and an evaluation of hazardous wastes.

The extent of the dioxin contamination was not fully defined during Phase II activities; however, the data obtained were used to estimate the costs for Cleanup Alternatives 2, 3, 4, and 5. Dioxin contamination was assumed to be present within the areas where samples have been collected. Verification samples for the lateral extent of excavation boundaries were estimated to be collected every 50 feet along sidewalls of excavations. Therefore, the assumptions provide a possible underestimation of the amount of soil that would require excavation and disposal.

The location of the former dip tank, which contains PCP contaminated soils, was estimated from the 2014 Phase II report conducted by Geocon. The PCP remediation boundaries were estimated using information from the 2014 Phase II conducted by Geocon. Several PCP sample GPS locations provided in the 2014 Phase II report did not match figures provided in the report. The figures provided in the 2014 Phase II report and 2014 ABCA report were used to determine PCP remediation boundaries. The Phase II report noted that the locations of the former dip tank, former boiler room, and former refuse burner are approximate. Weston was able to verify the locations of the former boiler room and former refuse burner. One historical soil sample containing TPH-d above human health screening levels within the former log pond was not included within the remediation areas discussed in Alternatives 2, 3, 4, and 5, as the surrounding soils samples did not contain TPH above human health screening levels. This soil is expected to be classified as non-hazardous waste based on historical sample results and Phase II sample results. Verification samples should be collected to determine the appropriate off-site disposal option. The Phase I/II TBA and this associated ABCA can provide mitigation guidance but are not to be used as full characterization or risk assessment reports. The information presented therein represents only the Site-specific, recognized environmental conditions and opinions of the environmental professional.

5. REFERENCES

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FIGURES

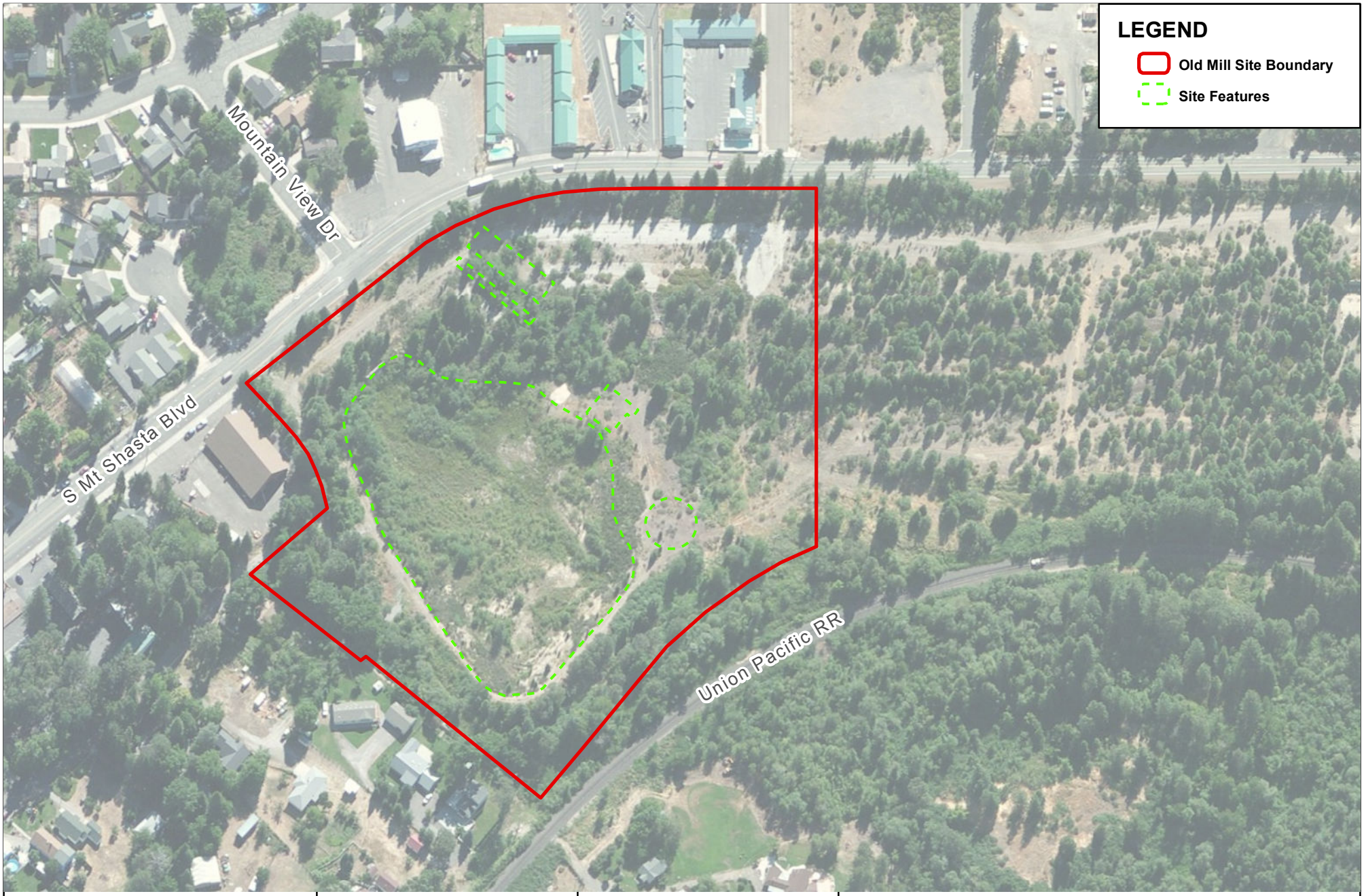

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FIGURE 1
Site Summary Map
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

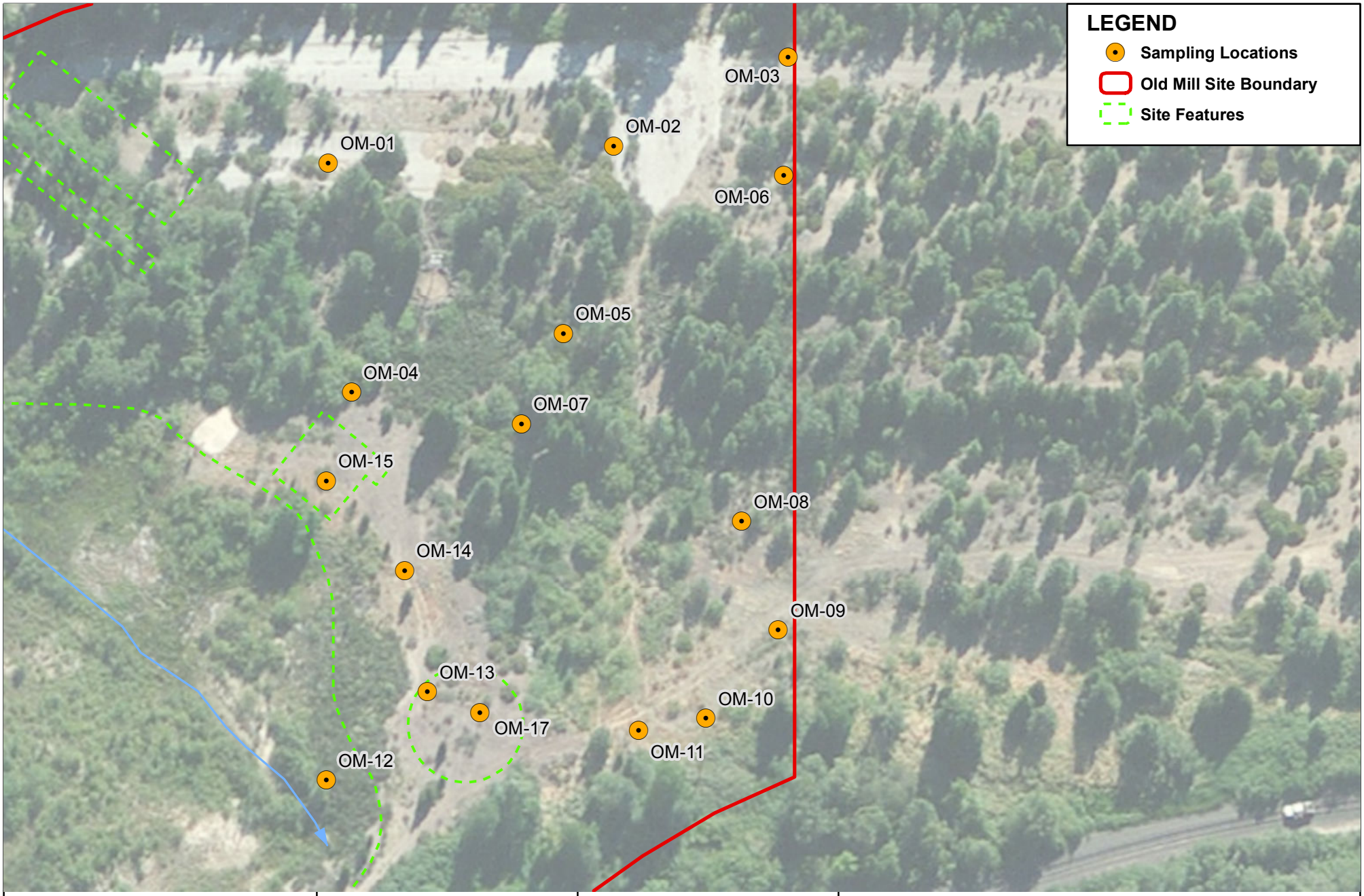

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FIGURE 2
Sampling Locations
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

FIGURE 3
TPH Soil Sampling Exceedances

Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Union Pacific RR

OM-SS-04-2
TPH Diesel = 160
TPH Motor Oil = 730

OM-SS-01-2
TPH Diesel = 100
TPH Motor Oil = 570

OM-SS-07-2
TPH Diesel = 54
TPH Motor Oil = 130

OM-SS-05-2
TPH Diesel = 9.7
TPH Motor Oil = 65

OM-SS-02-2
TPH Diesel = 56 J
TPH Motor Oil = 720 J

OM-SS-03-2
TPH Diesel = 130
TPH Motor Oil = 4100

OM-SS-06-2
TPH Diesel = 22
TPH Motor Oil = 120

OM-SS-08-2
TPH Diesel = 130
TPH Motor Oil = 460

OM-SS-09-2
TPH Diesel = 74
TPH Motor Oil = 520

OM-SS-17
TPH Diesel = 270
TPH Motor Oil = 1,200

OM-SS-16
TPH Diesel = 490
TPH Motor Oil = 1,500
OM-SS-19 (duplicate of OM-SS-16)
TPH Diesel = 450
TPH Motor Oil = 1,600

LEGEND

- Old Mill Site Boundary
- Site Features

2016 TBA Sampling Locations with TPH Commercial ESL Exceedances

- TPH-d Exceedances at 0-2 ft bgs
- **No Exceedances**

Historical Samples with TPH Commecial ESL Exceedances

- **TPH-d / TPH-mo Exceedances at 0-1 ft bgs**
- **TPH-d / TPH-mo Exceedances at 1-2 ft bgs**
- **TPH-d / TPH-mo Exceedances at 4-5 ft bgs**
- **No Exceedances**

Notes:
All result units are in mg/kg.
TPH-d Screening Level = 230 mg/kg.
TPH-mo Screening Level = 5,100 mg/kg
TPH results in red exceed the screening level.
Abbreviations:
bgs = below ground surface
ESL = Environmental Screening Level
ft = foot
TBA = Targeted Brownfields Assesment
TPH-d = total petroleum hydrocarbons as diesel
TPH-mo = total petroleum hydrocarbons as motor oil

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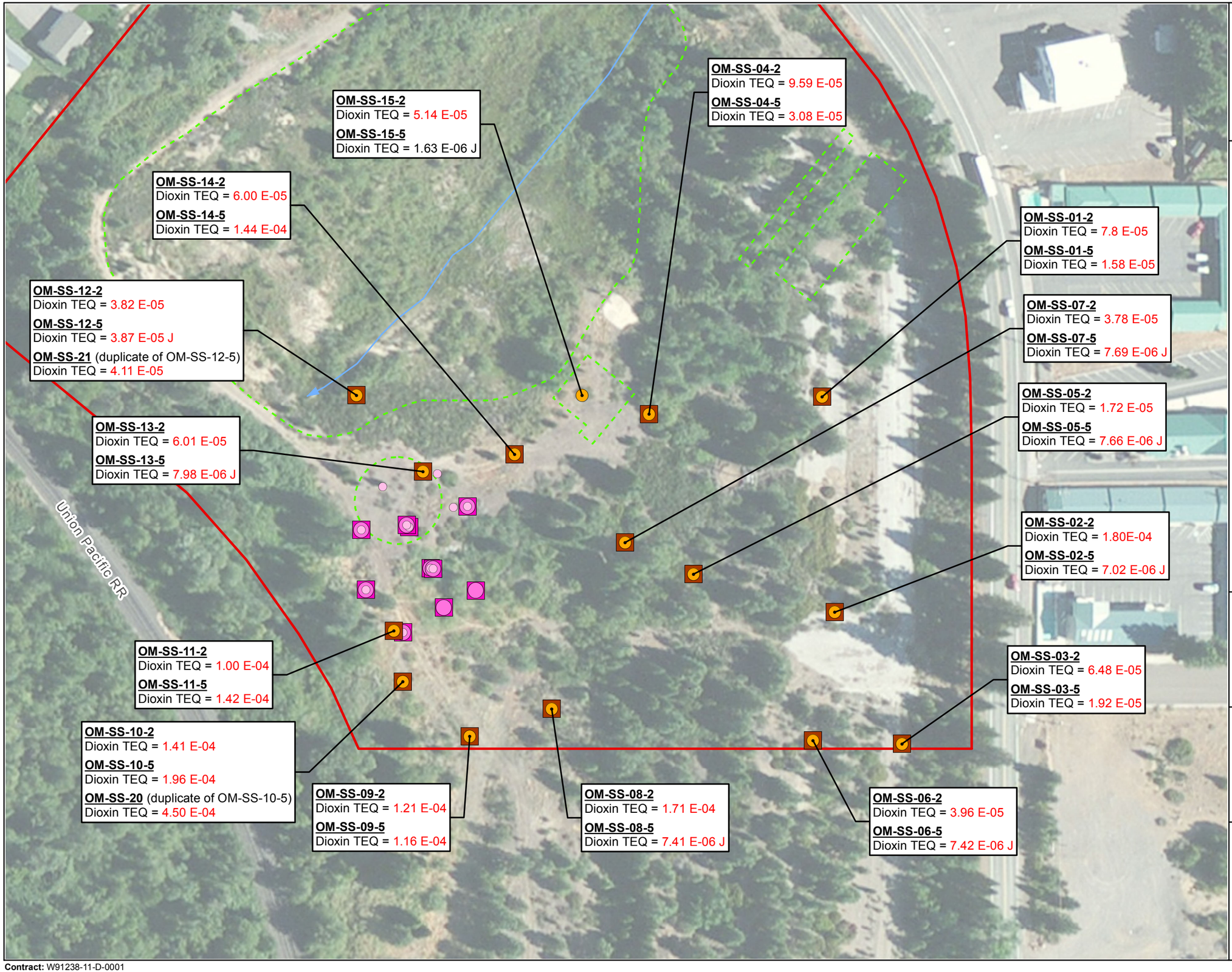
0 Scale in Feet 200

Contract: W91238-11-D-0001
Work Order No: 20074.063.515.1007.01

FIGURE 4
Dioxins/Furans Soil Sampling Exceedances
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment



LEGEND

- Old Mill Site Boundary
- Site Features

2016 TBA Sampling Locations with Total Dioxin TEQ Commercial ESL Exceedances

- Exceedances at 4 to 5 ft bgs
- Exceedances at 0 to 2 ft bgs

Historical Samples with Total Dioxin TEQ Exceedances

- Exceedances at 1 ft bgs
- Exceedances at 2 ft bgs
- Exceedances at 5 ft bgs

Notes:
All result units are in mg/kg.
Total Dioxin Screening Level = 4.9 E-06 mg/kg.
Dioxin results in red exceed the screening level.

Abbreviations:
bgs = below ground surface
ESL = Environmental Screening Level
ft = foot
TBA = Targeted Brownfields Assesment
TEQ = Toxic Equivalents

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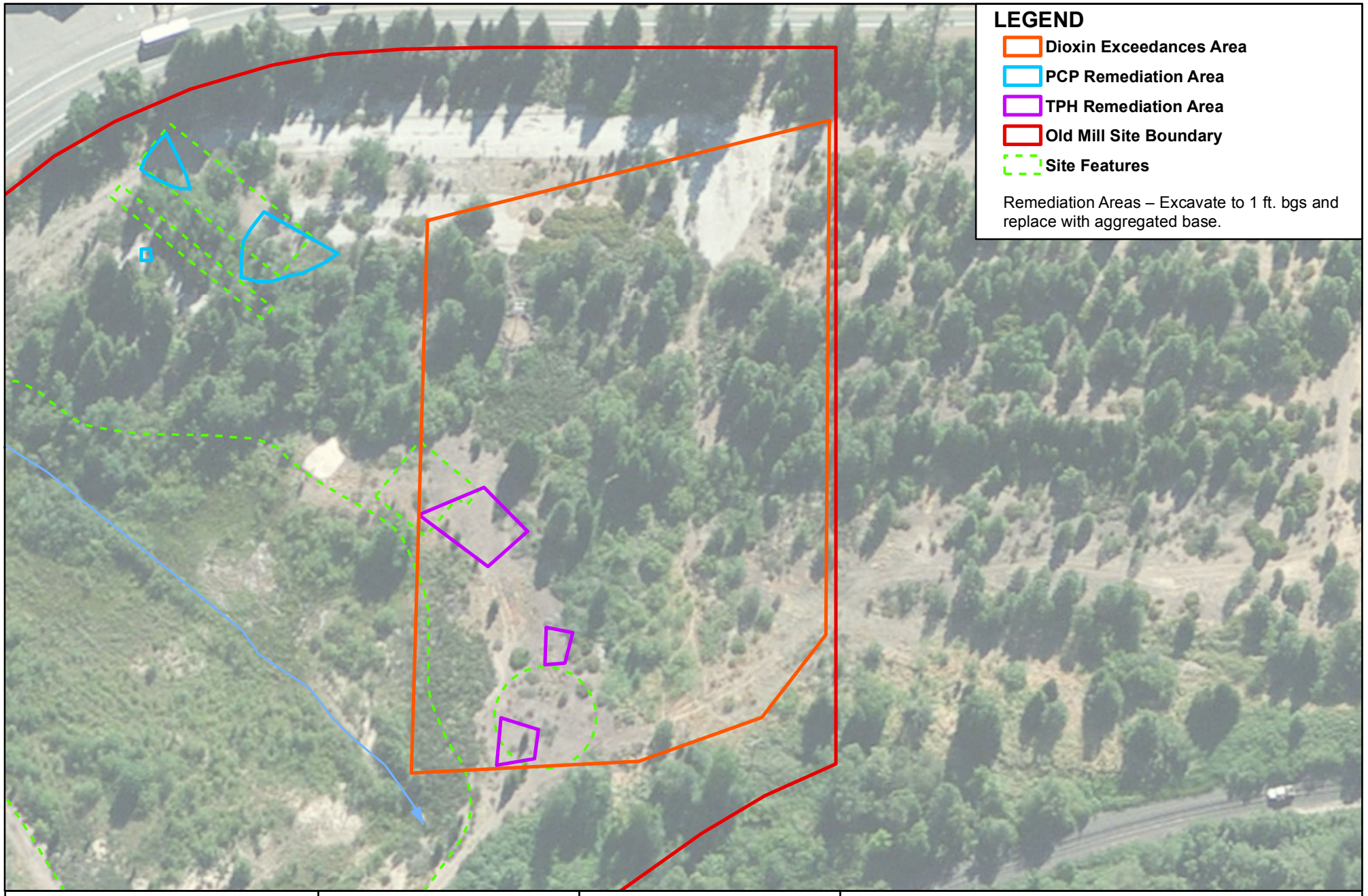

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FIGURE 5
Alternative 2
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

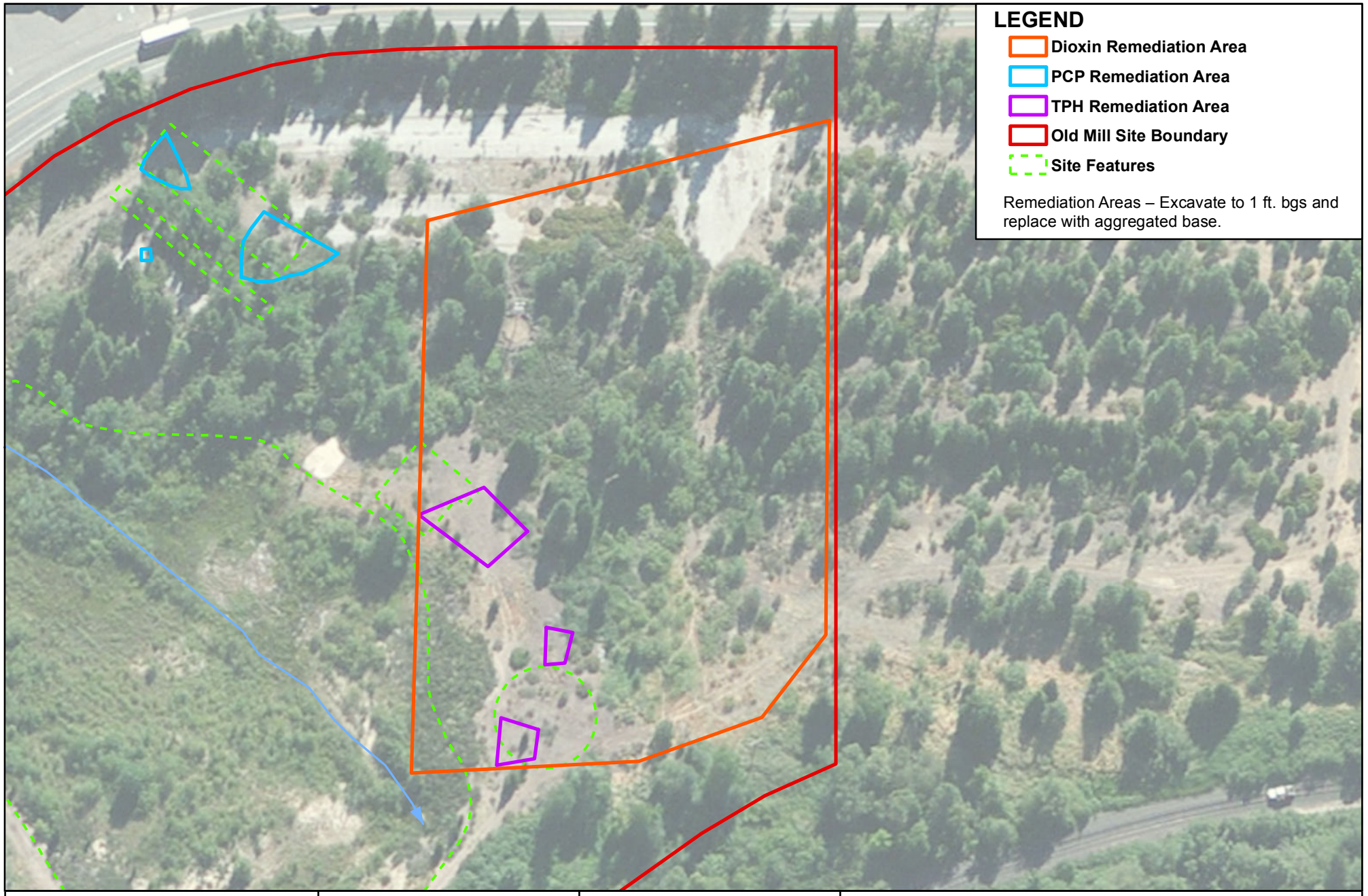

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FIGURE 6
Alternative 3
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

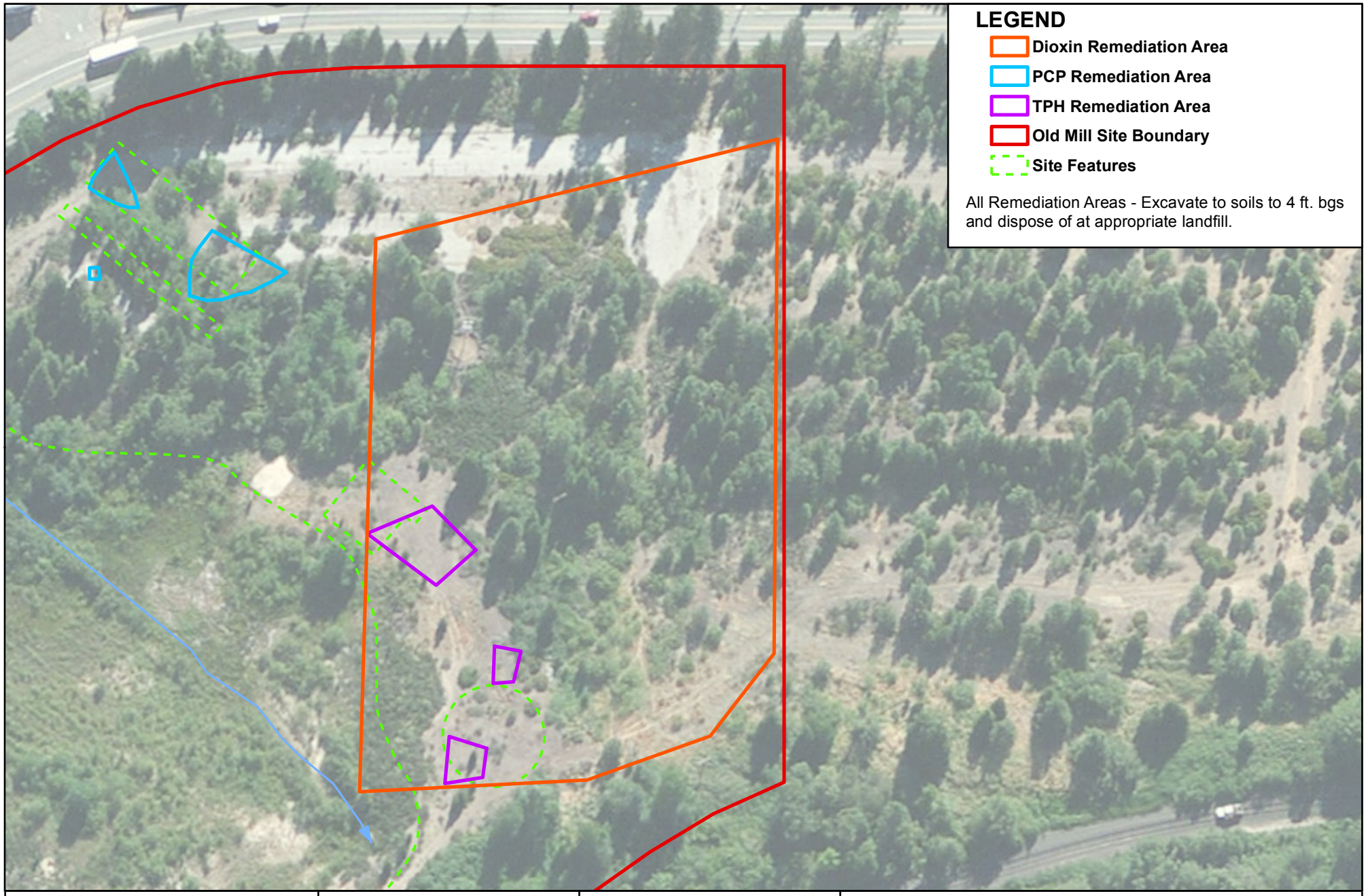

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FIGURE 7
Alternative 4
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

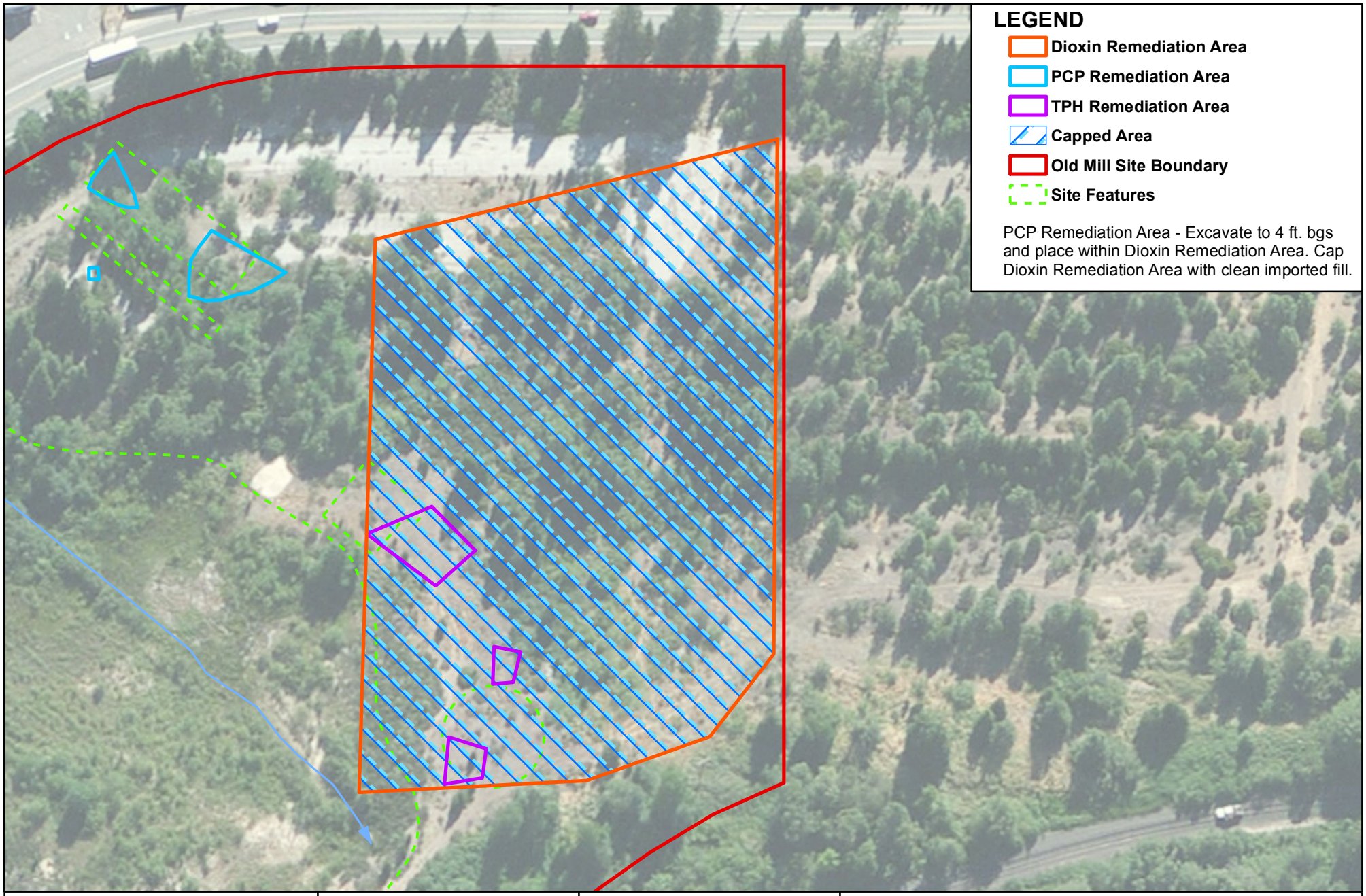

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FIGURE 8
Alternative 5
Mt. Shasta Old Mill Site
Mt. Shasta, Siskiyou County, California
Targeted Brownfields Assessment

Contract: W91238-11-D-0001

Work Order No: 20074.063.515.1007.01

APPENDIX A
SUMMARY OF TOTAL PETROLEUM HYDROCARBONS AND DIOXINS/FURANS ANALYTICAL DATA – SHALLOW AND SUBSURFACE SOIL

Summary of TPH-diesel and TPH-motor oil, Dioxins/Furans - Soil
Mount Shasta Old Mill
Mt. Shasta City, Siskiyou County, California

Sample ID		OM-SS-01-2	OM-SS-01-5	OM-SS-02-2	OM-SS-02-5	OM-SS-03-2	OM-SS-03-5	OM-SS-04-2	OM-SS-04-5	OM-SS-05-2	OM-SS-05-5	OM-SS-06-2	OM-SS-06-5	OM-SS-07-2	OM-SS-07-5	OM-SS-08-2	OM-SS-08-5	OM-SS-09-2	OM-SS-09-5
Sampling Depth (bgs)		0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet	0 - 2 feet	4 - 5 feet
Sample Description		New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location	New Sample Location
Sample Date		6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/201	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016	6/16/2016
Analyte	**RWQCB ESL(mg/kg)**	**TPH-diesel and TPH-motor oil (mg/kg)**																	
TPH-diesel	230	100	Not analyzed	56 J	Not analyzed	130	Not analyzed	160	Not analyzed	9.7	Not analyzed	22	Not analyzed	54	Not analyzed	130	Not analyzed	74	Not analyzed
TPH-motor oil	5100	570	Not analyzed	720 J	Not analyzed	4100	Not analyzed	730	Not analyzed	65	Not analyzed	120	Not analyzed	130	Not analyzed	460	Not analyzed	520	Not analyzed
Analyte	**RWQCB ESL and EPA RSL (mg/kg)**	**Dioxins/Furans (mg/kg)**																	
Dioxin TEQ	4.9E-06	**7.8&E-05**	**1.58E-05**	**1.80E-04**	**7.02E-06 J**	**6.48E-05**	**1.92E-05**	**9.59E-05**	**3.08E-05**	**1.72E-05**	**7.66E-06 J**	**3.96E-05**	**7.42E-06 J**	**3.78E-05**	**7.69E-06 J**	**1.71E-04**	**7.41E-06 J**	**1.21E-04**	**1.16E-04**

Notes:
TPH = Total petroleum hydrocarbons (THP-Diesel and THP-Motor oil by EPA 8015C with silicia gel cleanup EPA 3630C)
Dioxins/Furans tested by EPA Method 8290A
TEQ = Toxic Equivalent
ESL = environmental screening level
RSL = Regional Screening Level for Residential Soils
Bold, underlined and highlighted= Analytical result exceeds screening levels
J = The reported result for this analyte should be considered an estimated value.
mg/kg = milligrams per kilograms
ND - Not detected above the method detection limit.
RWQCB = Regional Water Quality Control Board
—— = not available

Summary of TPH-diesel and TPH-motor oil, Dioxins/Furans - Soil
Mount Shasta Old Mill
Mt. Shasta City, Siskiyou County, California

Sample ID		OM-SS-10-2	OM-SS-10-5	OM-SS-11-2	OM-SS-11-5	OM-SS-12-2	OM-SS-12-5	OM-SS-13-2	OM-SS-13-5	OM-SS-14-2	OM-SS-14-5	OM-SS-15-2	OM-SS-15-5	OM-SS-16	OM-SS-17	OM-SS-18	OM-SS-19	OM-SS-20	OM-SS-21
Sampling Depth (bgs)		**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**4 - 5 feet**	**0 - 2 feet**	**0 - 2 feet**	**0 - 2 feet**	**0 - 2 feet**	**4 - 5 feet**	**4 - 5 feet**
Sample Description		**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**New Sample Location**	**Historical Sampling Location**	**Historical Sampling Location**	**Duplicate of OM-SS-02-2**	**Duplicate of OM-SS-16**	**Duplicate of OM-SS-10-5**	**Duplicate of OM-SS-12-2**
Sample Date		**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**	**6/16/2016**
Analyte	**RWQCB ESL(mg/kg)**	**TPH-diesel and TPH-motor oil (mg/kg)**																	
TPH-diesel	230	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	**490**	**270**	100 J	**450**	Not collected	Not collected
TPH-motor oil	5100	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	Not collected	Not analyzed	1500	1200	1300 J	1600	Not collected	Not collected
Analyte	**RWQCB ESL and EPA RSL (mg/kg)**	**Dioxins/Furans (mg/kg)**																	
Dioxin TEQ	4.9E-06	**1.41E-04**	**1.96E-04**	**1.00E-04**	**1.42E-04**	**3.82E-05**	**3.87E-05 J**	**6.01E-05**	**7.98E-06 J**	**6.00E-05**	**1.44E-04**	**5.14E-05**	1.63E-06 J	Not collected	Not collected	Not collected	Not collected	**4.50E-04**	**4.11E-05**

Notes:
TPH = Total petroleum hydrocarbons (THP-Diesel and THP-Motor
Dioxins/Furans tested by EPA Method 8290A
TEQ = Toxic Equivalent
ESL = environmental screening level
RSL = Regional Screening Level for Residential Soils
Bold, underlined and highlighted= Analytical result exceeds screer
J = The reported result for this analyte should be considered an estim
mg/kg = milligrams per kilograms
ND - Not detected above the method detection limit.
RWQCB = Regional Water Quality Control Board
—— = not available

APPENDIX B
PHASE II LABORATORY REPORTS AND DATA VALIDATION REPORTS

MT. SHASTA OLD MILL
MT. SHASTA, SISKIYOU COUNTY, CALIFORNIA
DATA VALIDATION REPORT

Date: October 12, 2016
Laboratory: TestAmerica Laboratories, Inc., West Sacramento, CA
Laboratory Job Number: 320-19659-1
Data Validation Performed By: Mindy Song, CSS-Dynamac
Weston Work Order #: 20074.063.515.1007.01

This data validation report has been prepared by CSS-Dynamac. This report documents the data validation for 21 soil and 1water samples collected for the Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Petroleum Hydrocarbons (TPH) as Diesel and Motor Oil by SW-846 Method 8015B
- Dioxins and Furans by SW-846 Method 8290A

A level II data package was requested from TestAmerica Laboratories, Inc. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated August 2014 and "Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review" dated August 2011. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

Data Validation Report – October 12, 2016
Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, CA
Laboratory: TestAmerica Laboratories, Inc.
Laboratory Job Number: 320-19659-1

TPH BY SW-846 METHOD 8015B

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
OM-SS-01-2	320-19659-1	Soil	6/16/16	6/30/16	7/6/16
OM-SS-02-2	320-19659-3	Soil	6/16/16	6/24/16	6/29/16
OM-SS-18	320-19659-5	Soil	6/16/16	6/24/16	6/29/16
OM-SS-06-2	320-19659-6	Soil	6/16/16	6/30/16	7/7/16
OM-SS-03-2	320-19659-8	Soil	6/16/16	6/24/16	6/29/16
OM-SS-05-2	320-19659-10	Soil	6/16/16	6/24/16	6/29/16
OM-SS-07-2	320-19659-12	Soil	6/16/16	6/24/16	6/29/16
OM-SS-04-2	320-19659-14	Soil	6/16/16	6/24/16	7/1/16
OM-SS-16	320-19659-22	Soil	6/16/16	6/30/16	7/7/16
OM-SS-19	320-19659-23	Soil	6/16/16	6/24/16	7/1/16
OM-SS-17	320-19659-24	Soil	6/16/16	6/24/16	6/29/16
OM-SS-09-2	320-19659-30	Soil	6/16/16	6/24/16	6/29/16
OM-SS-08-2	320-19659-32	Soil	6/16/16	6/24/16	7/1/16
OM-W	320-19659-37	Water	6/16/16	7/5/16	7/7/16

1. Data Verification Check

A data verification and completeness check was performed in accordance with the Stage 1 and 2A verification checks outlined in the EPA "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use" dated January 13, 2009. For the TPH analyses, all analytical data package items were received from the laboratory and the analyses requested were performed.

2. Holding Times

The samples were received, extracted, and analyzed within the required holding time requirements except following: Water sample OM-W was re-extracted outside of holding time because the initial sample result indicated the carryover from prior extraction. Re-analysis was used and the non-detected results were qualified as estimated (UJ).

3. Blanks

Method blanks and the equipment blank were analyzed with the TPH analyses and were free of target compounds above the reporting limits.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS recoveries were within laboratory QC limits.

6. Laboratory Duplicate Results/Field Duplicate Results

Laboratory duplicate was not analyzed but LCS Duplicate (LCSD) was analyzed. All relative percent differences (RPDs) were within the control limits.

Sample OM-SS-18 was a field duplicate of sample OM-SS-02-2. The RPDs of diesel range organics (DRO) and motor oil range organics (MORO) were outside the control limits. The detected results of DRO and MORO in sample OM-SS-02-2 and OM-SS-18 were qualified as estimated (J).

Sample OM-SS-19 was a field duplicate of sample OM-SS-16 and all RPDs were within the control limits.

7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Sample OM-SS-01-2 was used for MS and MSD analysis and the recoveries were outside of the laboratory-established quality control limits (QC) limits. Qualification was not required because the concentration of DRO in the parent sample was greater than 4X the spiked concentration.

8. Overall Assessment

TestAmerica flagged sample results with the following laboratory qualifier:

B- Indicates the associated compound was found in the blank and sample. These qualifiers were removed by the data validator.

H-Indicates sample was prepared or analyzed beyond the specified holding time. The data validator removed these qualifiers and added "J" or "UJ".

The TPH data are acceptable for use as qualified based on the information received.

Data Validation Report – October 12, 2016
Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, CA
Laboratory: TestAmerica Laboratories, Inc.
Laboratory Job Number: 320-19659-1

DIOXINS AND FURANS BY SW-846 METHOD 8290A

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
OM-SS-01-2	320-19659-1	Soil	6/16/16	7/12/16	7/17/16
OM-SS-02-2	320-19659-3	Soil	6/16/16	7/12/16	7/17/16
OM-SS-06-2	320-19659-6	Soil	6/16/16	7/12/16	7/17/16
OM-SS-03-2	320-19659-8	Soil	6/16/16	7/12/16	7/20/16
OM-SS-05-2	320-19659-10	Soil	6/16/16	7/12/16	7/18/16
OM-SS-07-2	320-19659-12	Soil	6/16/16	7/12/16	7/18/16
OM-SS-04-2	320-19659-14	Soil	6/16/16	7/12/16	7/18/16
OM-SS-15-2	320-19659-16	Soil	6/16/16	7/12/16	7/18/16
OM-SS-14-2	320-19659-19	Soil	6/16/16	7/12/16	7/18/16
OM-SS-13-2	320-19659-20	Soil	6/16/16	7/12/16	7/18/16
OM-SS-11-2	320-19659-25	Soil	6/16/16	7/12/16	7/18/16
OM-SS-10-2	320-19659-27	Soil	6/16/16	7/12/16	7/18/16
OM-SS-20	320-19659-29	Soil	6/16/16	7/12/16	7/18/16 & 7/21/16
OM-SS-09-2	320-19659-30	Soil	6/16/16	7/12/16	7/18/16 & 7/21/16
OM-SS-08-2	320-19659-32	Soil	6/16/16	7/12/16	7/18/16
OM-SS-12-2	320-19659-34	Soil	6/16/16	7/12/16	7/18/16
OM-SS-21	320-19659-36	Soil	6/16/16	7/12/16	7/18/16

1. Data Verification Check

A data verification and completeness check was performed in accordance with the Stage 1 and 2A verification checks outlined in the EPA "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use" dated January 13, 2009. For the Dioxins /Furans analyses, all analytical data package items were received from the laboratory and the analyses requested were performed.

2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection to extraction and 45 days from extraction to analysis.

3. Blanks

Method blank was analyzed with the Dioxins/Furans analyses. The method blank was free of target compound contamination above the reporting limits.

4. Surrogate Results

The surrogate recoveries were within the laboratory-established QC limits.

5. Laboratory Control Sample (LCS) Results

The LCS recoveries were within laboratory QC limits.

6. Laboratory Duplicate Results/Field Duplicate Results

Laboratory duplicate was not analyzed but LCS Duplicate (LCSD) was analyzed. All relative percent differences (RPDs) were within the control limits.

Sample OM-SS-20 was a field duplicate of sample OM-SS-10-5. The relative percent differences (RPDs) of 2,3,7,8-TCDD and 2,3,7,8-TCDF were within the control limits. The RPDs of target analytes except 2,3,7,8-TCDD and 2,3,7,8-TCDF were outside of control limits and the detected results in samples OM-SS-20 and OM-SS-10-5 were qualified as estimated (J).

7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Site-specific MS and MSD were not analyzed.

8. Overall Assessment

TestAmerica flagged sample results with the following laboratory qualifiers:

B: Indicates that compound was found in the blank and sample. The data validator removed these qualifiers.

J: Indicates that the concentration is an approximate value because the analyte concentration is below the reporting limit (RL) and above the method detection limit (MDL). These qualifiers were left in place by the data validator.

G: Indicates that the reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference. The data validator removed these qualifiers.

E: Indicates result exceeded calibration range. The data validator removed these qualifiers and added "J" qualifier.

q: Indicates that the reported concentration is the estimated maximum possible concentration (EMPC) of the analyte, quantitated using the theoretical ion ratio. The measured ion ratio did not meet qualitative identification criteria and indicates a possible interference. The data validator removed these qualifiers and added "J" qualifiers.

The Dioxins and Furans data are acceptable for use as qualified based on the information received.

Data Validation Report – October 12, 2016
Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, CA
Laboratory: TestAmerica Laboratories, Inc.
Laboratory Job Number: 320-19659-1

ATTACHMENT

TESTAMRICA LABORATORIES INC
RESULTS SUMMARY WITH QUALIFIERS

Client Sample ID: OM-SS-01-2
Date Collected: 06/16/16 08:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-1
Matrix: Solid
Percent Solids: 84.9

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	100		12	5.9	mg/Kg	☼	06/30/16 11:58	07/06/16 13:48	10
Motor Oil Range Organics (C24-C40)	570	~~B~~	59	44	mg/Kg	☼	06/30/16 11:58	07/06/16 13:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*63 - 141*	*06/30/16 11:58*	*07/06/16 13:48*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000064	J	0.0000012	0.00000098	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,7,8-TCDF	0.00000037	J	0.0000012	0.00000036	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8-PeCDD	0.0000045	J	0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8-PeCDF	0.00000083	J ~~EMPC~~	0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,4,7,8-PeCDF	0.0000010	J	0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8-HxCDD	0.0000085		0.0000059	0.0000063	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,6,7,8-HxCDD	0.000082		0.0000059	0.0000061	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8,9-HxCDD	0.000025		0.0000059	0.0000053	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8-HxCDF	0.0000089		0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,6,7,8-HxCDF	0.0000071		0.0000059	0.0000016	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8,9-HxCDF	~~ND~~	U	0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,4,6,7,8-HxCDF	0.0000063		0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,6,7,8-HpCDD	0.0016	~~GB~~	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,6,7,8-HpCDF	0.00095	~~B~~	0.0000059	0.0000058	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8,9-HpCDF	0.000014	~~G~~	0.0000074	0.0000074	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
OCDF	0.00088	~~B~~	0.000012	0.0000005	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total TCDD	0.000024	~~q EMPC~~ J	0.0000012	0.00000098	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total TCDF	0.0000028	~~q EMPC~~ J	0.0000012	0.00000036	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total PeCDD	0.000065		0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total PeCDF	0.000028	~~q EMPC~~ J	0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HxCDD	0.00041	~~q EMPC~~ J	0.0000059	0.0000059	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HxCDF	0.00043		0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HpCDD	0.0030	~~GB~~	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HpCDF	0.0020	~~GB~~	0.0000066	0.0000066	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,7,8-PeCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*

Client Sample ID: OM-SS-01-2

Lab Sample ID: 320-19659-1
Matrix: Solid
Percent Solids: 84.9

Date Collected: 06/16/16 08:07
Date Received: 06/17/16 13:50

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	88		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-1,2,3,4,6,7,8-HpCDD	97		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-1,2,3,4,6,7,8-HpCDF	87		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-OCDD	93		40 - 135	07/12/16 13:07	07/17/16 18:23	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.11	~~B~~	0.00059	0.000094	mg/Kg	☼	07/12/16 13:07	07/20/16 18:24	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	97		40 - 135	07/12/16 13:07	07/20/16 18:24	50

Client Sample ID: OM-SS-02-2

Lab Sample ID: 320-19659-3
Matrix: Solid
Percent Solids: 82.5

Date Collected: 06/16/16 08:53
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	56	J	24	12	mg/Kg	☼	06/24/16 13:15	06/29/16 00:41	20
Motor Oil Range Organics (C24-C40)	720	J	120	90	mg/Kg	☼	06/24/16 13:15	06/29/16 00:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	78		63 - 141	06/24/16 13:15	06/29/16 00:41	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000014	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,7,8-TCDF	0.00000090	J	0.0000012	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8-PeCDD	0.000036		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8-PeCDF	0.0000031	J	0.0000061	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,4,7,8-PeCDF	0.0000027	J	0.0000061	0.00000066	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8-HxCDD	0.000052		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,6,7,8-HxCDD	0.00033		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8,9-HxCDD	0.00017		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8-HxCDF	0.000027		0.0000061	0.0000052	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,6,7,8-HxCDF	0.000016		0.0000061	0.0000048	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8,9-HxCDF	~~ND~~	U	0.0000061	0.0000054	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,4,6,7,8-HxCDF	0.000014		0.0000061	0.0000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,6,7,8-HpCDD	0.0041	~~E B G~~ J	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,6,7,8-HpCDF	0.0027	~~E B G~~ J	0.000017	0.000017	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8,9-HpCDF	0.000038	~~G~~ —	0.000022	0.000022	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
OCDD	0.026	~~E B G~~ J	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
OCDF	0.0014	~~B~~	0.000012	0.00000079	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total TCDD	0.00010	J	0.0000012	0.00000014	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total TCDF	0.0000050	~~q~~ ~~Estpc~~	0.0000012	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1

Client Sample ID: OM-SS-02-2

Lab Sample ID: 320-19659-3
Matrix: Solid
Percent Solids: 82.5

Date Collected: 06/16/16 08:53
Date Received: 06/17/16 13:50

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	0.00036	~~q~~ ~~EMPC~~ J	0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total PeCDF	0.000056	J	0.0000061	0.0000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HxCDD	0.0024		0.0000061	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HxCDF	0.0013		0.0000061	0.0000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HpCDD	0.0076	~~B G~~	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HpCDF	0.0054	~~B G~~	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,6,7,8-HxCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*74*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-OCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*

Client Sample ID: OM-SS-18

Lab Sample ID: 320-19659-5
Matrix: Solid
Percent Solids: 82.6

Date Collected: 06/16/16 09:00
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	100	J	12	6.1	mg/Kg	☼	06/24/16 13:15	06/29/16 01:10	10
Motor Oil Range Organics (C24-C40)	1300	J	61	46	mg/Kg	☼	06/24/16 13:15	06/29/16 01:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*63 - 141*	*06/24/16 13:15*	*06/29/16 01:10*	*10*

Client Sample ID: OM-SS-06-2

Lab Sample ID: 320-19659-6
Matrix: Solid
Percent Solids: 91.9

Date Collected: 06/16/16 09:11
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	22		1.1	0.56	mg/Kg	☼	06/30/16 11:58	07/07/16 01:35	1
Motor Oil Range Organics (C24-C40)	120	~~B~~	5.6	4.2	mg/Kg	☼	06/30/16 11:58	07/07/16 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*98*		*63 - 141*	*06/30/16 11:58*	*07/07/16 01:35*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	~~ND~~	U	0.0000011	0.00000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,7,8-TCDF	0.00000066	J	0.0000011	0.00000097	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8-PeCDD	0.0000022	J	0.0000054	0.00000028	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1

Client Sample ID: OM-SS-06-2

Date Collected: 06/16/16 09:11
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-6

Matrix: Solid
Percent Solids: 91.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	0.00000090	J	0.0000054	0.00000041	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,4,7,8-PeCDF	0.0000013	J	0.0000054	0.00000042	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8-HxCDD	0.000010		0.0000054	0.00000055	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,6,7,8-HxCDD	0.000089		0.0000054	0.00000053	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8,9-HxCDD	0.000015		0.0000054	0.00000046	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8-HxCDF	0.0000092		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,6,7,8-HxCDF	0.0000084		0.0000054	0.00000096	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000054	0.0000011	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,4,6,7,8-HxCDF	0.0000070		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,6,7,8-HpCDD	0.0012	~~B G~~	0.0000064	0.0000064	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,6,7,8-HpCDF	0.00060	~~B~~	0.0000054	0.0000031	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8,9-HpCDF	0.0000091		0.0000054	0.0000039	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
OCDD	0.011	~~E B~~ J	0.000011	0.0000094	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
OCDF	0.00030	~~B~~	0.000011	0.00000027	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total TCDD	0.00014		0.0000011	0.00000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total TCDF	0.000013	~~q EMPC~~ J	0.0000011	0.0000000 97	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total PeCDD	0.000026	~~q EMPC~~ J	0.0000054	0.00000028	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total PeCDF	0.000035		0.0000054	0.00000042	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HxCDD	0.00039	~~q EMPC~~ J	0.0000054	0.00000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HxCDF	0.00032		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HpCDD	0.0020	~~B G~~	0.0000064	0.0000064	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HpCDF	0.0011	~~B~~	0.0000054	0.0000035	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-2,3,7,8-TCDF	*79*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-OCDD	*96*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*

Client Sample ID: OM-SS-03-2

Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8

Matrix: Solid
Percent Solids: 85.1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	130		57	29	mg/Kg	☼	06/24/16 13:15	06/29/16 01:39	50

Client Sample ID: OM-SS-03-2
Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8
Matrix: Solid
Percent Solids: 85.1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics (C24-C40)	4100		290	220	mg/Kg	☼	06/24/16 13:15	06/29/16 01:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*63 - 141*	*06/24/16 13:15*	*06/29/16 01:39*	*50*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000058	0.00000049	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,7,8-TCDF	**0.00000079**	J	0.0000058	0.00000037	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8-PeCDD	**0.0000048**	J	0.000029	0.00000077	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8-PeCDF	ND	U	0.000029	0.00000065	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,4,7,8-PeCDF	**0.0000018**	J	0.000029	0.00000066	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8-HxCDD	**0.000010**	J	0.000029	0.0000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,6,7,8-HxCDD	**0.00011**		0.000029	0.0000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8,9-HxCDD	**0.000027**	J	0.000029	0.0000012	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8-HxCDF	**0.000014**	J	0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,6,7,8-HxCDF	**0.000013**	J	0.000029	0.0000019	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8,9-HxCDF	ND	U	0.000029	0.0000022	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,4,6,7,8-HxCDF	**0.000011**	J	0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,6,7,8-HpCDD	**0.0015**	B	0.000029	0.000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,6,7,8-HpCDF	**0.0012**	B	0.000029	0.0000082	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8,9-HpCDF	ND	U	0.000029	0.000011	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
OCDD	**0.013**	B	0.000058	0.000010	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
OCDF	**0.00055**	B	0.000058	0.00000085	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total TCDD	**0.000051**	~~q EMPC~~ J	0.0000058	0.00000049	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total TCDF	**0.0000097**	~~q EMPC~~ J	0.0000058	0.00000037	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total PeCDD	**0.000047**		0.000029	0.00000077	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total PeCDF	**0.000049**		0.000029	0.00000065	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HxCDD	**0.00061**		0.000029	0.0000013	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HxCDF	**0.00052**		0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HpCDD	**0.0029**	B	0.000029	0.000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HpCDF	**0.0021**	B	0.000029	0.0000094	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-2,3,7,8-TCDF	*79*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,7,8-PeCDF	*82*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,7,8-HxCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*

Client Sample ID: OM-SS-03-2
Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8
Matrix: Solid
Percent Solids: 85.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	87		40 - 135	07/12/16 13:07	07/20/16 16:51	5

Client Sample ID: OM-SS-05-2
Date Collected: 06/16/16 09:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-10
Matrix: Solid
Percent Solids: 79.4

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	9.7		1.3	0.63	mg/Kg	☼	06/24/16 13:15	06/29/16 02:32	1
Motor Oil Range Organics (C24-C40)	65		6.3	4.8	mg/Kg	☼	06/24/16 13:15	06/29/16 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	92		63 - 141	06/24/16 13:15	06/29/16 02:32	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000016	J q	0.0000013	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,7,8-TCDF	0.00000011	J q	0.0000013	0.00000020	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8-PeCDD	0.0000012	J	0.0000063	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8-PeCDF	0.00000045	J	0.0000063	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,4,7,8-PeCDF	0.00000037	J	0.0000063	0.00000088	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8-HxCDD	0.0000025	J	0.0000063	0.0000034	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,6,7,8-HxCDD	0.000035		0.0000063	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8,9-HxCDD	0.0000091		0.0000063	0.0000028	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8-HxCDF	0.0000032	J	0.0000063	0.0000042	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,6,7,8-HxCDF	0.0000027	J	0.0000063	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8,9-HxCDF	~~ND~~ U		0.0000063	0.0000043	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,4,6,7,8-HxCDF	0.0000028	J	0.0000063	0.0000041	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,6,7,8-HpCDD	0.00043	~~B~~	0.0000063	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,6,7,8-HpCDF	0.00036	B	0.0000063	0.0000023	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8,9-HpCDF	0.0000040	J	0.0000063	0.0000030	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
OCDD	0.0053	~~E B~~ J	0.000013	0.0000031	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
OCDF	0.00019	~~B~~	0.000013	0.0000013	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total TCDD	0.0000044	~~q~~ J	0.0000013	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total TCDF	0.00000091	~~J q~~ J	0.0000013	0.00000020	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total PeCDD	0.000012	~~q~~ J	0.0000063	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total PeCDF	0.0000091	q J	0.0000063	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1

Client Sample ID: OM-SS-05-2

Lab Sample ID: 320-19659-10
Matrix: Solid
Percent Solids: 79.4

Date Collected: 06/16/16 09:47
Date Received: 06/17/16 13:50

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	0.00017		0.0000063	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HxCDF	0.00015		0.0000063	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HpCDD	0.00080	B	0.0000063	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HpCDF	0.00067	B	0.0000063	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,7,8-PeCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-OCDD	*109*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*

Client Sample ID: OM-SS-07-2

Lab Sample ID: 320-19659-12
Matrix: Solid
Percent Solids: 74.0

Date Collected: 06/16/16 10:04
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	54		1.4	0.69	mg/Kg	☼	06/24/16 13:15	06/29/16 03:01	1
Motor Oil Range Organics (C24-C40)	130		6.9	5.2	mg/Kg	☼	06/24/16 13:15	06/29/16 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*63 - 141*	*06/24/16 13:15*	*06/29/16 03:01*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000084	J	0.0000014	0.00000090	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,7,8-TCDF	0.00000055	J	0.0000014	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8-PeCDD	0.0000037	J	0.0000068	0.00000017	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8-PeCDF	0.00000094	J	0.0000068	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,4,7,8-PeCDF	0.00000095	J	0.0000068	0.00000036	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8-HxCDD	0.0000066	J	0.0000068	0.00000049	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,6,7,8-HxCDD	0.000078		0.0000068	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8,9-HxCDD	0.000021		0.0000068	0.00000042	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8-HxCDF	0.0000071		0.0000068	0.00000093	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000068	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1

Client Sample ID: OM-SS-07-2

Lab Sample ID: 320-19659-12

Date Collected: 06/16/16 10:04
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 74.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	ND	U	0.0000068	0.00000095	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,4,6,7,8-HxCDF	0.0000068		0.0000068	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,6,7,8-HpCDD	0.0010	B G	0.0000082	0.0000082	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,6,7,8-HpCDF	0.00061	B	0.0000068	0.0000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8,9-HpCDF	0.0000088		0.0000068	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
OCDD	0.011	E B J	0.000014	0.0000066	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
OCDF	0.00038	B	0.000014	0.00000019	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total TCDD	0.000022	a EMPC J	0.0000014	0.00000090	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total TCDF	0.0000050	a EMPC J	0.0000014	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total PeCDD	0.000029		0.0000068	0.00000017	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total PeCDF	0.000025	a EMPC J	0.0000068	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HxCDD	0.00039	a EMPC J	0.0000068	0.00000046	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HxCDF	0.00032	a EMPC J	0.0000068	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HpCDD	0.0019	B G	0.0000082	0.0000082	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HpCDF	0.0012	B	0.0000068	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	80		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-2,3,7,8-TCDF	77		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,7,8-PeCDD	79		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,7,8-PeCDF	77		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,6,7,8-HxCDD	85		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,4,6,7,8-HpCDD	91		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-1,2,3,4,6,7,8-HpCDF	83		40 - 135	07/12/16 13:07	07/18/16 01:49	1
13C-OCDD	91		40 - 135	07/12/16 13:07	07/18/16 01:49	1

Client Sample ID: OM-SS-04-2

Lab Sample ID: 320-19659-14

Date Collected: 06/16/16 10:21
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 50.6

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	160		10	5.0	mg/Kg	☼	06/24/16 13:15	07/01/16 10:24	5
Motor Oil Range Organics (C24-C40)	730		50	38	mg/Kg	☼	06/24/16 13:15	07/01/16 10:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	111		63 - 141	06/24/16 13:15	07/01/16 10:24	5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000016	J	0.0000020	0.00000018	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1

Client Sample ID: OM-SS-04-2

Date Collected: 06/16/16 10:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-14
Matrix: Solid
Percent Solids: 50.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000015	J	0.0000020	0.00000016	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8-PeCDD	0.0000072	J	0.0000098	0.00000045	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8-PeCDF	0.0000040	J	0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
2,3,4,7,8-PeCDF	0.0000035	J	0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8-HxCDD	0.000018		0.0000098	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,6,7,8-HxCDD	0.00013		0.0000098	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8,9-HxCDD	0.000038		0.0000098	0.00000092	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8-HxCDF	0.000029		0.0000098	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,6,7,8-HxCDF	0.000030		0.0000098	0.0000030	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000098	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
2,3,4,6,7,8-HxCDF	0.000028		0.0000098	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,6,7,8-HpCDD	0.0024	~~B G~~	0.000013	0.000013	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,6,7,8-HpCDF	0.0026	~~B G~~	0.000016	0.000016	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8,9-HpCDF	0.000038	~~G~~	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
OCDD	0.022	~~E B~~ J	0.000020	0.000014	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
OCDF	0.0019	~~B~~	0.000020	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total TCDD	0.000042	~~a EMPC~~ J	0.0000020	0.00000018	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total TCDF	0.000019	~~a EMPC~~ J	0.0000020	0.00000016	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total PeCDD	0.000065	~~a EMPC~~ J	0.0000098	0.00000045	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total PeCDF	0.00013		0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HxCDD	0.00073		0.0000098	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HxCDF	0.0013		0.0000098	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HpCDD	0.0045	~~B G~~	0.000013	0.000013	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HpCDF	0.0050	~~B G~~	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	82		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-2,3,7,8-TCDF	80		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,7,8-PeCDD	84		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,7,8-PeCDF	81		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,6,7,8-HxCDD	87		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,4,6,7,8-HpCDD	92		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-1,2,3,4,6,7,8-HpCDF	83		40 - 135	07/12/16 13:07	07/18/16 02:35	1
13C-OCDD	93		40 - 135	07/12/16 13:07	07/18/16 02:35	1

Client Sample ID: OM-SS-15-2

Date Collected: 06/16/16 10:32
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-16
Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000014	J	0.0000017	0.00000069	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,7,8-TCDF	0.00000090	J	0.0000017	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1

Client Sample ID: OM-SS-15-2
Date Collected: 06/16/16 10:32
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-16
Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.0000063	J	0.0000085	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8-PeCDF	0.0000019	J	0.0000085	0.00000047	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,4,7,8-PeCDF	0.0000018	J	0.0000085	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8-HxCDD	0.0000095		0.0000085	0.00000068	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,6,7,8-HxCDD	0.000087		0.0000085	0.00000065	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8,9-HxCDD	0.000031		0.0000085	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8-HxCDF	0.000014		0.0000085	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,6,7,8-HxCDF	0.000017		0.0000085	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000085	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,4,6,7,8-HxCDF	0.000013		0.0000085	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,6,7,8-HpCDD	0.0011	~~B~~	0.0000085	0.0000059	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,6,7,8-HpCDF	0.0011	~~B~~	0.0000085	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8,9-HpCDF	0.000016		0.0000085	0.0000070	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
OCDD	0.0088	~~EBJ~~	0.000017	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
OCDF	0.00084	~~B~~	0.000017	0.00000046	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total TCDD	0.000022	~~q EMPC~~ J	0.0000017	0.00000069	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total TCDF	0.0000070	~~q EMPC~~ J	0.0000017	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total PeCDD	0.000051		0.0000085	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total PeCDF	0.000060	~~q EMPC~~ J	0.0000085	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HxCDD	0.00048		0.0000085	0.00000063	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HxCDF	0.00072		0.0000085	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HpCDD	0.0020	~~B~~	0.0000085	0.0000059	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HpCDF	0.0023	~~B~~	0.0000085	0.0000063	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-2,3,7,8-TCDF	*82*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,7,8-PeCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-OCDD	*99*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*

Client Sample ID: OM-SS-14-2
Date Collected: 06/16/16 10:45
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-19
Matrix: Solid
Percent Solids: 75.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000018		0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8-PeCDD	0.0000078		0.0000067	0.00000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8-PeCDF	0.0000023	J	0.0000067	0.00000054	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
2,3,4,7,8-PeCDF	0.0000023	J	0.0000067	0.00000055	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8-HxCDD	0.000015		0.0000067	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,6,7,8-HxCDD	0.00011		0.0000067	0.00000099	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8,9-HxCDD	0.000036		0.0000067	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8-HxCDF	0.000014		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,6,7,8-HxCDF	0.0000095		0.0000067	0.0000022	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000067	0.0000025	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
2,3,4,6,7,8-HxCDF	0.0000079		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,6,7,8-HpCDD	0.0014	~~B~~	0.0000067	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,6,7,8-HpCDF	0.0011	~~G B~~	0.0000068	0.0000068	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8,9-HpCDF	0.000025	~~G~~	0.0000087	0.0000087	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
OCDD	0.014	~~E B~~ J	0.000013	0.0000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
OCDF	0.00076	~~B~~	0.000013	0.00000044	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total TCDD	0.000032	~~a EMPC~~ J	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total TCDF	0.000010	~~a EMPC~~ J	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total PeCDD	0.000057	~~a EMPC~~ J	0.0000067	0.00000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total PeCDF	0.000063		0.0000067	0.00000054	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HxCDD	0.00075		0.0000067	0.00000096	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HxCDF	0.00065		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HpCDD	0.0028	~~B~~	0.0000067	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HpCDF	0.0026	~~G B~~	0.0000078	0.0000078	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,7,8-HxCDF	*118*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-OCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000065	J	0.0000013	0.00000041	mg/Kg	☼	07/12/16 13:07	07/19/16 16:28	1

Client Sample ID: OM-SS-14-2

Lab Sample ID: 320-19659-19

Date Collected: 06/16/16 10:45
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 75.0

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	85		40 - 135	07/12/16 13:07	07/19/16 16:28	1

Client Sample ID: OM-SS-13-2

Lab Sample ID: 320-19659-20

Date Collected: 06/16/16 10:54
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 76.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000096	J	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,7,8-TCDF	0.0000013	J	0.0000013	0.00000009 97	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8-PeCDD	0.0000055	J	0.0000065	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8-PeCDF	0.0000032	J	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,4,7,8-PeCDF	0.0000025	J ~~q EMPC~~	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8-HxCDD	0.000011		0.0000065	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,6,7,8-HxCDD	0.00010		0.0000065	0.00000055	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8,9-HxCDD	0.000028		0.0000065	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8-HxCDF	0.000018		0.0000065	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,6,7,8-HxCDF	0.000017		0.0000065	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000065	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,4,6,7,8-HxCDF	0.000014		0.0000065	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,6,7,8-HpCDD	0.0014	~~B~~	0.0000065	0.0000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,6,7,8-HpCDF	0.0014	~~B G~~	0.0000091	0.0000091	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8,9-HpCDF	0.000026	~~G~~	0.000012	0.000012	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
OCDD	0.016	~~E B~~ J	0.000013	0.0000075	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
OCDF	0.00065	~~B~~	0.000013	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total TCDD	0.000029	~~q EMPC~~ J	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total TCDF	0.000012	~~q EMPC~~ J	0.0000013	0.00000009 97	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total PeCDD	0.000046	~~q EMPC~~ J	0.0000065	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total PeCDF	0.000074	~~q EMPC~~ J	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HxCDD	0.00060		0.0000065	0.00000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HxCDF	0.00076	q	0.0000065	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HpCDD	0.0026	~~B~~	0.0000065	0.0000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HpCDF	0.0030	~~B G~~	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	87		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-2,3,7,8-TCDF	84		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,7,8-PeCDD	96		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,7,8-PeCDF	89		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,6,7,8-HxCDD	96		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,4,7,8-HxCDF	116		40 - 135	07/12/16 13:07	07/18/16 04:53	1

Client Sample ID: OM-SS-13-2

Lab Sample ID: 320-19659-20
Matrix: Solid
Percent Solids: 76.2

Date Collected: 06/16/16 10:54
Date Received: 06/17/16 13:50

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	95		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,4,6,7,8-HpCDF	60		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-OCDD	100		40 - 135	07/12/16 13:07	07/18/16 04:53	1

Client Sample ID: OM-SS-16

Lab Sample ID: 320-19659-22
Matrix: Solid
Percent Solids: 59.7

Date Collected: 06/16/16 11:04
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	490		34	17	mg/Kg	☼	06/30/16 11:58	07/07/16 02:04	10
Motor Oil Range Organics (C24-C40)	1500	B	170	130	mg/Kg	☼	06/30/16 11:58	07/07/16 02:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	120		63 - 141	06/30/16 11:58	07/07/16 02:04	10

Client Sample ID: OM-SS-19

Lab Sample ID: 320-19659-23
Matrix: Solid
Percent Solids: 63.8

Date Collected: 06/16/16 11:08
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	450		16	7.8	mg/Kg	☼	06/24/16 13:15	07/01/16 10:52	5
Motor Oil Range Organics (C24-C40)	1600		78	59	mg/Kg	☼	06/24/16 13:15	07/01/16 10:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	131		63 - 141	06/24/16 13:15	07/01/16 10:52	5

Client Sample ID: OM-SS-17

Lab Sample ID: 320-19659-24
Matrix: Solid
Percent Solids: 64.0

Date Collected: 06/16/16 11:13
Date Received: 06/17/16 13:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	270		8.0	4.0	mg/Kg	☼	06/24/16 13:15	06/29/16 04:27	5
Motor Oil Range Organics (C24-C40)	1200		40	30	mg/Kg	☼	06/24/16 13:15	06/29/16 04:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	102		63 - 141	06/24/16 13:15	06/29/16 04:27	5

Client Sample ID: OM-SS-11-2

Lab Sample ID: 320-19659-25
Matrix: Solid
Percent Solids: 81.9

Date Collected: 06/16/16 11:33
Date Received: 06/17/16 13:50

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000029		0.0000012	0.0000000 70	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1

Client Sample ID: OM-SS-11-2
Date Collected: 06/16/16 11:33
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-25
Matrix: Solid
Percent Solids: 81.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.000013		0.0000061	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8-PeCDF	0.0000035	J	0.0000061	0.00000070	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
2,3,4,7,8-PeCDF	0.0000034	J	0.0000061	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8-HxCDD	0.000018		0.0000061	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,6,7,8-HxCDD	0.00017		0.0000061	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8,9-HxCDD	0.000073		0.0000061	0.00000088	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8-HxCDF	0.000024		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,6,7,8-HxCDF	0.000025		0.0000061	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
2,3,4,6,7,8-HxCDF	0.000019		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,6,7,8-HpCDD	0.0020	~~B G~~	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,6,7,8-HpCDF	0.0024	~~B G~~	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8,9-HpCDF	0.000026	~~G~~	0.0000079	0.0000079	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
OCDD	0.018	~~E B~~ J	0.000012	0.0000088	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
OCDF	0.0012	~~B~~	0.000012	0.00000056	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total TCDD	0.000052	~~q~~ Emle J	0.0000012	0.000000070	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total TCDF	0.000013	~~q~~ Emle J	0.0000012	0.00000012	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total PeCDD	0.00015		0.0000061	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total PeCDF	0.000094		0.0000061	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HxCDD	0.0011		0.0000061	0.00000098	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HxCDF	0.0012		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HpCDD	0.0037	~~B G~~	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HpCDF	0.0043	~~B G~~	0.0000070	0.0000070	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,7,8-PeCDD	*99*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,7,8-PeCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,6,7,8-HxCDD	*98*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,7,8-HxCDF	*104*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000089	J	0.0000012	0.00000032	mg/Kg	☼	07/12/16 13:07	07/19/16 17:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/19/16 17:06*	*1*

Client Sample ID: OM-SS-10-2
Date Collected: 06/16/16 11:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-27
Matrix: Solid
Percent Solids: 81.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000026	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8-PeCDD	0.000026		0.0000061	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8-PeCDF	0.0000025	J	0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
2,3,4,7,8-PeCDF	0.0000028	J	0.0000061	0.00000079	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8-HxCDD	0.000044		0.0000061	0.00000092	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,6,7,8-HxCDD	0.00024		0.0000061	0.00000089	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8,9-HxCDD	0.00011		0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8-HxCDF	0.000022		0.0000061	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,6,7,8-HxCDF	0.000018		0.0000061	0.00000021	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000061	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
2,3,4,6,7,8-HxCDF	0.000016		0.0000061	0.00000022	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,6,7,8-HpCDD	0.0032	J	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,6,7,8-HpCDF	0.0022		0.0000067	0.0000067	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8,9-HpCDF	0.000027		0.0000086	0.0000086	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
OCDF	0.0012		0.000012	0.00000058	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total TCDD	0.00011		0.0000012	0.00000026	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total TCDF	0.000012		0.0000012	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total PeCDD	0.00023		0.0000061	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total PeCDF	0.000075	J	0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HxCDD	0.0017		0.0000061	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HxCDF	0.0011	J	0.0000061	0.00000022	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HpCDD	0.0058		0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HpCDF	0.0041		0.0000077	0.0000077	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,7,8-PeCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,7,8-PeCDF	*96*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,6,7,8-HxCDD	*103*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,7,8-HxCDF	*109*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*108*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.029		0.00024	0.000026	mg/Kg	☼	07/12/16 13:07	07/20/16 17:38	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-OCDD	*102*		*40 - 135*	*07/12/16 13:07*	*07/20/16 17:38*	*20*

Client Sample ID: OM-SS-10-2
Date Collected: 06/16/16 11:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-27
Matrix: Solid
Percent Solids: 81.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000066	J	0.0000012	0.00000020	mg/Kg	☼	07/12/16 13:07	07/19/16 19:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*105*		*40 - 135*	*07/12/16 13:07*	*07/19/16 19:37*	*1*

Client Sample ID: OM-SS-20
Date Collected: 06/16/16 11:55
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-29
Matrix: Solid
Percent Solids: 57.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000067		0.0000017	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8-PeCDD	0.000052	J	0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8-PeCDF	0.000012	J	0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
2,3,4,7,8-PeCDF	0.000014	J	0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8-HxCDD	0.00011	J	0.0000086	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,6,7,8-HxCDD	0.00063	J	0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8,9-HxCDD	0.00030	J	0.0000086	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8-HxCDF	0.00013	~~G~~ J	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,6,7,8-HxCDF	0.00014	~~G~~ J	0.000017	0.000017	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8,9-HxCDF	ND	~~G~~ U (M) U	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
2,3,4,6,7,8-HxCDF	0.00015	~~G~~ J	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,6,7,8-HpCDD	0.0042	~~E B G~~ J	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,6,7,8-HpCDF	0.019	~~E B G~~ J	0.000059	0.000059	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8,9-HpCDF	0.000079	~~G~~ J	0.000075	0.000075	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
OCDD	0.014	~~E B~~ J	0.000017	0.0000071	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
OCDF	0.0068	~~B~~ J	0.000017	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total TCDD	0.00014	J	0.0000017	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total TCDF	0.000052	J	0.0000017	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total PeCDD	0.00060	J	0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total PeCDF	0.00057	J	0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HxCDD	0.0042	J	0.0000086	0.0000036	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HxCDF	0.0074	~~G~~ J	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HpCDD	0.0072	~~B G~~ J	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HpCDF	0.030	~~B G~~ J	0.000067	0.000067	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,7,8-PeCDD	*88*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*94*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-OCDD	*94*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*

Client Sample ID: OM-SS-20

Date Collected: 06/16/16 11:55
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-29
Matrix: Solid
Percent Solids: 57.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000015	J	0.0000017	0.00000080	mg/Kg	☼	07/12/16 13:07	07/19/16 17:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	93		40 - 135	07/12/16 13:07	07/19/16 17:44	1

Client Sample ID: OM-SS-09-2

Date Collected: 06/16/16 12:05
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-30
Matrix: Solid
Percent Solids: 86.2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	74		5.8	2.9	mg/Kg	☼	06/24/16 13:15	06/29/16 04:56	5
Motor Oil Range Organics (C24-C40)	520		29	22	mg/Kg	☼	06/24/16 13:15	06/29/16 04:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	97		63 - 141	06/24/16 13:15	06/29/16 04:56	5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000021		0.0000011	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8-PeCDD	0.000012		0.0000057	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8-PeCDF	0.0000045	J	0.0000057	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
2,3,4,7,8-PeCDF	0.0000035	J	0.0000057	0.00000075	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8-HxCDD	0.000025		0.0000057	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,6,7,8-HxCDD	0.00023		0.0000057	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8,9-HxCDD	0.000073		0.0000057	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8-HxCDF	0.000024		0.0000057	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,6,7,8-HxCDF	0.000019		0.0000057	0.0000025	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000057	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
2,3,4,6,7,8-HxCDF	0.000016		0.0000057	0.0000026	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,6,7,8-HpCDF	0.0018	~~GB~~	0.0000089	0.0000089	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8,9-HpCDF	0.000027	~~G~~	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
OCDF	0.0010	~~B~~	0.000011	0.00000047	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total TCDD	0.000087		0.0000011	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total TCDF	0.000014	~~q~~ GMPC J	0.0000011	0.00000013	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total PeCDD	0.00013		0.0000057	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total PeCDF	0.000086		0.0000057	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HxCDD	0.0013		0.0000057	0.00000096	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HxCDF	0.00099	~~q~~ GMPC J	0.0000057	0.0000026	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HpCDF	0.0035	~~GB~~	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1

Client Sample ID: OM-SS-09-2

Lab Sample ID: 320-19659-30

Date Collected: 06/16/16 12:05
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 86.2

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	88		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-2,3,7,8-TCDF	83		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,7,8-PeCDD	97		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,7,8-PeCDF	88		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,6,7,8-HxCDD	95		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,4,7,8-HxCDF	95		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-OCDD	110		40 - 135	07/12/16 13:07	07/18/16 21:01	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0038	B	0.000057	0.000038	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10
OCDD	0.033	B	0.00011	0.000021	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10
Total HpCDD	0.0071	B	0.000057	0.000038	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	83		40 - 135	07/12/16 13:07	07/21/16 20:07	10
13C-OCDD	87		40 - 135	07/12/16 13:07	07/21/16 20:07	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000086	J	0.0000011	0.00000026	mg/Kg	☼	07/12/16 13:07	07/21/16 12:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	107		40 - 135	07/12/16 13:07	07/21/16 12:58	1

Client Sample ID: OM-SS-08-2

Lab Sample ID: 320-19659-32

Date Collected: 06/16/16 12:21
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 77.6

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	130		13	6.5	mg/Kg	☼	06/24/16 13:15	07/01/16 11:21	10
Motor Oil Range Organics (C24-C40)	460		65	49	mg/Kg	☼	06/24/16 13:15	07/01/16 11:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	105		63 - 141	06/24/16 13:15	07/01/16 11:21	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000037		0.0000013	0.00000029	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8-PeCDD	0.000019		0.0000064	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8-PeCDF	0.0000084		0.0000064	0.00000065	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
2,3,4,7,8-PeCDF	0.0000074		0.0000064	0.00000066	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8-HxCDD	0.000030		0.0000064	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,6,7,8-HxCDD	0.00027		0.0000064	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8,9-HxCDD	0.00010		0.0000064	0.00000093	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8-HxCDF	0.000038		0.0000064	0.0000036	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1

Client Sample ID: OM-SS-08-2
Date Collected: 06/16/16 12:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-32
Matrix: Solid
Percent Solids: 77.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	0.000029		0.0000064	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000064	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
2,3,4,6,7,8-HxCDF	0.000025		0.0000064	0.0000035	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8,9-HpCDF	0.000033	~~G~~	0.000015	0.000015	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
OCDF	0.0015	~~B~~	0.000013	0.0000080	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total TCDD	0.000097	~~q~~ ~~EMPC~~ J	0.0000013	0.0000002 9	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total TCDF	0.000015		0.0000013	0.0000001 2	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total PeCDD	0.00020		0.0000064	0.0000004 3	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total PeCDF	0.00013	~~q~~ ~~EMPC~~ J	0.0000064	0.0000006 6	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total HxCDD	0.0016		0.0000064	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total HxCDF	0.0017		0.0000064	0.0000035	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*89*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,7,8-PeCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*100*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-OCDD	*112*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0046	~~B~~	0.000064	0.000039	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
1,2,3,4,6,7,8-HpCDF	0.0037	~~B~~	0.000064	0.000020	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
OCDD	0.043	~~B~~	0.00013	0.000023	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
Total HpCDD	0.0093	~~B~~	0.000064	0.000039	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
Total HpCDF	0.0066	~~B~~	0.000064	0.000022	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*
13C-1,2,3,4,6,7,8-HpCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*
13C-OCDD	*82*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000016		0.0000013	0.0000003 1	mg/Kg	☼	07/12/16 13:07	07/21/16 13:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*108*		*40 - 135*	*07/12/16 13:07*	*07/21/16 13:36*	*1*

Client Sample ID: OM-SS-12-2
Date Collected: 06/16/16 12:38
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-34
Matrix: Solid
Percent Solids: 75.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000013		0.0000013	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,7,8-TCDF	0.00000036	J	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8-PeCDD	0.0000056	J	0.0000066	0.00000028	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8-PeCDF	0.0000010	J	0.0000066	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,4,7,8-PeCDF	0.00000082	J	0.0000066	0.00000024	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8-HxCDD	0.0000071		0.0000066	0.00000070	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,6,7,8-HxCDD	0.000051		0.0000066	0.00000068	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8,9-HxCDD	0.000026		0.0000066	0.00000059	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8-HxCDF	0.0000070		0.0000066	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,6,7,8-HxCDF	0.0000064	J	0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000066	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,4,6,7,8-HxCDF	0.0000061	J	0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,6,7,8-HpCDD	0.00069	~~B~~	0.0000066	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,6,7,8-HpCDF	0.0011	~~B~~	0.0000066	0.0000044	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8,9-HpCDF	0.0000065	J	0.0000066	0.0000056	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
OCDD	0.0064	~~E B~~ J	0.000013	0.0000042	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
OCDF	0.00045	~~B~~	0.000013	0.00000033	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total TCDD	0.000022	~~a~~ Empe J	0.0000013	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total TCDF	0.0000040	~~a~~ Empe J	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total PeCDD	0.000063		0.0000066	0.00000028	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total PeCDF	0.000026		0.0000066	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HxCDD	0.00043		0.0000066	0.00000066	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HxCDF	0.00038		0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HpCDD	0.0014	~~B~~	0.0000066	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HpCDF	0.0018	~~B~~	0.0000066	0.0000050	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*60*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-2,3,7,8-TCDF	*57*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,7,8-PeCDD	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,7,8-PeCDF	*59*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,6,7,8-HxCDD	*66*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,7,8-HxCDF	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*69*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*62*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-OCDD	*71*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*

Client Sample ID: OM-SS-21
Date Collected: 06/16/16 12:45
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-36
Matrix: Solid
Percent Solids: 76.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000014		0.0000013	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,7,8-TCDF	0.00000051	J	0.0000013	0.00000062	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8-PeCDD	0.0000062	J	0.0000065	0.0000021	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8-PeCDF	0.0000012	J	0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,4,7,8-PeCDF	0.00000088	J	0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8-HxCDD	0.0000074		0.0000065	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,6,7,8-HxCDD	0.000060		0.0000065	0.00000069	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8,9-HxCDD	0.000030		0.0000065	0.00000060	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8-HxCDF	0.0000079		0.0000065	0.00000099	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,6,7,8-HxCDF	0.0000075		0.0000065	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000065	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,4,6,7,8-HxCDF	0.0000068		0.0000065	0.00000097	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,6,7,8-HpCDD	0.00074	~~B~~	0.0000065	0.00000040	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,6,7,8-HpCDF	0.0011	~~B~~	0.0000065	0.00000045	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8,9-HpCDF	0.0000065		0.0000065	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
OCDD	0.0065	~~EB~~ J	0.000013	0.00000044	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
OCDF	0.00045	~~B~~	0.000013	0.00000029	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total TCDD	0.000025		0.0000013	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total TCDF	0.0000031	~~J~~ EMPC J	0.0000013	0.00000062	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total PeCDD	0.000068		0.0000065	0.00000021	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total PeCDF	0.000030		0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HxCDD	0.00047		0.0000065	0.00000067	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HxCDF	0.00044		0.0000065	0.00000097	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HpCDD	0.0015	~~B~~	0.0000065	0.0000040	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HpCDF	0.0018	~~B~~	0.0000065	0.0000051	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,7,8-HxCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*106*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*

Client Sample ID: OM-W
Date Collected: 06/16/16 13:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-37
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics ~~[C12-C24]~~	48	J B	52	17	ug/L		06/23/16 11:34	06/27/16 18:13	1
Motor Oil Range Organics (C24-C40)	280	J B	520	170	ug/L		06/23/16 11:34	06/27/16 18:13	1

VOID (MS)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*56 - 145*	*06/23/16 11:34*	*06/27/16 18:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	ND	~~H~~ UJ	52	17	ug/L		07/05/16 10:54	07/07/16 12:40	1
Motor Oil Range Organics (C24-C40)	ND	~~H~~ UJ	520	170	ug/L		07/05/16 10:54	07/07/16 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*56 - 145*	*07/05/16 10:54*	*07/07/16 12:40*	*1*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-19659-1
Client Project/Site: Mt. Shasta, Old Mill

For:
Weston Solutions, Inc.
1340 Treat Blvd., Suite 210
Walnut Creek, California 94597

Attn: Ms. Tara Fitzgerald

Linda C. Laver

Authorized for release by:
7/27/2016 3:19:10 PM

Linda C. Laver, Project Manager II
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linda.laver@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 320-19659-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative
320-19659-1

Receipt
The samples were received on 6/17/2016 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Receipt Exceptions
The following sample is listed as a soil on the Chain of Custody (COC) but it is a water matrix: OM-W (320-19659-37)

GC Semi VOA
Method(s) 8015B: The following samples were diluted 5X due to concentrations of target analytes in the sample matrix: OM-SS-04-2 (320-19659-14), OM-SS-19 (320-19659-23), OM-SS-17 (320-19659-24) and OM-SS-09-2 (320-19659-30). Elevated reporting limits (RLs) are provided.

Method(s) 8015B: The following samples required a dilution greater than 5X to concentrations of target analytes in the sample matrix: OM-SS-01-2 (320-19659-1), OM-SS-02-2 (320-19659-3), OM-SS-18 (320-19659-5), OM-SS-03-2 (320-19659-8), OM-SS-16 (320-19659-22), and OM-SS-08-2 (320-19659-32). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation may not provide useful information.

Method(s) 8015B: Diesel Range Organics [C12-C24] and Motor Oil Range Organics (C24-C40) was detected above the reporting limit (RL) in the method blank associated with preparation batch 320-115045 and 320-116520 and analytical batch 320-115426 as well as in the following sample: OM-W (320-19659-37). The root cause of these detections were identified as carryover from prior extractions and remedied. The sample was re-extracted outside of holding time. Both sets of data have been reported.

Method(s) 8015B: Due to the high concentration of Diesel Range Organics [C12-C24], the matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 320-116148 and analytical batch 320-116636 could not be evaluated for accuracy (%Rec) and precision (RPD). The presence of the "4" qualifier indicates that the concentration in the parent sample was greater than 4X that in the parent sample. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-115045 and 320-116520 for 8015B.

Method(s) 3510C SGC: The following samples formed emulsions during the extraction procedure for method 8015B: OM-W (320-19659-37). The presence of emulsion resulted in an incomplete separation between the sample and extraction solvent. The emulsions were broken at concentration using glass wool and filter paper. Any affect on analyte recoveries should be reflected in the surrogate recovery.

Method(s) 3550B: The parent sample and matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-115239 for method 8015B was removed from the batch due to a potential mis-labeling. As a result, this batch does not have an associated MS/MSD pair.

Method(s) 3550B: During the nitrogen blow down step after the Silica-Gel Cleanup (SGC), the follow samples were viscous for method 8015B: OM-SS-19 (320-19659-23) and OM-SS-17 (320-19659-24). These may require dilution prior to analysis.

Method(s) 3550B: Due to the matrix, the following sample could not be concentrated to the final method required volume for method 8015B: OM-SS-16 (320-19659-22) and OM-SS-19 (320-19659-23). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
Method(s) 8290A: The following sample was diluted due to the nature of the sample matrix: OM-SS-03-2 (320-19659-8). Elevated

Job ID: 320-19659-1 (Continued)

Laboratory: TestAmerica Sacramento (Continued)

reporting limits (RLs) are provided.

Method(s) 8290A: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): OM-SS-01-2 (320-19659-1), OM-SS-02-2 (320-19659-3), OM-SS-06-2 (320-19659-6), OM-SS-07-2 (320-19659-12), OM-SS-04-2 (320-19659-14), OM-SS-14-2 (320-19659-19), OM-SS-13-2 (320-19659-20), OM-SS-11-2 (320-19659-25), OM-SS-10-2 (320-19659-27), OM-SS-20 (320-19659-29), OM-SS-09-2 (320-19659-30) and OM-SS-08-2 (320-19659-32). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method(s) 8290A: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: OM-SS-02-2 (320-19659-3), OM-SS-06-2 (320-19659-6), OM-SS-05-2 (320-19659-10), OM-SS-07-2 (320-19659-12), OM-SS-04-2 (320-19659-14), OM-SS-15-2 (320-19659-16), OM-SS-14-2 (320-19659-19), OM-SS-13-2 (320-19659-20), OM-SS-11-2 (320-19659-25), OM-SS-10-2 (320-19659-27), OM-SS-20 (320-19659-29), OM-SS-12-2 (320-19659-34) and OM-SS-21 (320-19659-36). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-01-2 — Lab Sample ID: 320-19659-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000064	J	0.0000012	0.000000098	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000037	J	0.0000012	0.000000036	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000045	J	0.0000059	0.00000018	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000083	J q	0.0000059	0.00000017	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000010	J	0.0000059	0.00000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000085		0.0000059	0.00000063	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000082		0.0000059	0.00000061	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000025		0.0000059	0.00000053	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000089		0.0000059	0.0000018	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000071		0.0000059	0.0000016	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000063		0.0000059	0.0000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0016	G B	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00095	B	0.0000059	0.0000058	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000014	G	0.0000074	0.0000074	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00088	B	0.000012	0.00000055	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000024	q	0.0000012	0.000000098	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000028	q	0.0000012	0.000000036	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000065		0.0000059	0.00000018	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000028	q	0.0000059	0.00000017	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00041	q	0.0000059	0.00000059	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00043		0.0000059	0.0000017	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0030	G B	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0020	G B	0.0000066	0.0000066	mg/Kg	1	☼	8290A	Total/NA
OCDD - DL	0.11	B	0.00059	0.000094	mg/Kg	50	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	100		12	5.9	mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	570	B	59	44	mg/Kg	10	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-01-5 — Lab Sample ID: 320-19659-2

No Detections.

Client Sample ID: OM-SS-02-2 — Lab Sample ID: 320-19659-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000014	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000090	J	0.0000012	0.0000000065	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample ID: OM-SS-02-2 (Continued) — Lab Sample ID: 320-19659-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.000036		0.0000061	0.0000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000031	J	0.0000061	0.00000065	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000027	J	0.0000061	0.00000066	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000052		0.0000061	0.0000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00033		0.0000061	0.0000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00017		0.0000061	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000027		0.0000061	0.0000052	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000016		0.0000061	0.0000048	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000014		0.0000061	0.0000051	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0041	E B G	0.000021	0.000021	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0027	E B G	0.000017	0.000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000038	G	0.000022	0.000022	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.026	E B G	0.000018	0.000018	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0014	B	0.000012	0.00000079	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00010		0.0000012	0.00000014	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000050	q	0.0000012	0.00000065	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00036	q	0.0000061	0.0000019	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000056		0.0000061	0.00000065	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0024		0.0000061	0.0000018	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0013		0.0000061	0.0000051	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0076	B G	0.000021	0.000021	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0054	B G	0.000019	0.000019	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	56		24	12	mg/Kg	20	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	720		120	90	mg/Kg	20	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-02-5 — Lab Sample ID: 320-19659-4

No Detections.

Client Sample ID: OM-SS-18 — Lab Sample ID: 320-19659-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	100		12	6.1	mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	1300		61	46	mg/Kg	10	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-06-2 — Lab Sample ID: 320-19659-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.00000066	J	0.0000011	0.00000097	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000022	J	0.0000054	0.00000028	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-06-2 (Continued) — Lab Sample ID: 320-19659-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	0.00000090	J	0.0000054	0.00000041	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000013	J	0.0000054	0.00000042	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000010		0.0000054	0.00000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000089		0.0000054	0.00000053	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000015		0.0000054	0.00000046	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000092		0.0000054	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000084		0.0000054	0.00000096	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000070		0.0000054	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0012	B G	0.0000064	0.0000064	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00060	B	0.0000054	0.0000031	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000091		0.0000054	0.0000039	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.011	E B	0.000011	0.0000094	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00030	B	0.000011	0.00000027	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00014		0.0000011	0.00000019	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000013	q	0.0000011	0.00000097	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000026	q	0.0000054	0.00000028	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000035		0.0000054	0.00000042	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00039	q	0.0000054	0.00000051	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00032		0.0000054	0.0000010	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0020	B G	0.0000064	0.0000064	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0011	B	0.0000054	0.0000035	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	22		1.1	0.56	mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	120	B	5.6	4.2	mg/Kg	1	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-06-5 — Lab Sample ID: 320-19659-7

No Detections.

Client Sample ID: OM-SS-03-2 — Lab Sample ID: 320-19659-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.00000079	J	0.0000058	0.00000037	mg/Kg	5	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000048	J	0.000029	0.00000077	mg/Kg	5	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000018	J	0.000029	0.00000066	mg/Kg	5	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000010	J	0.000029	0.0000014	mg/Kg	5	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00011		0.000029	0.0000014	mg/Kg	5	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000027	J	0.000029	0.0000012	mg/Kg	5	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-03-2 (Continued) — Lab Sample ID: 320-19659-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDF	0.000014	J	0.000029	0.0000021	mg/Kg	5	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000013	J	0.000029	0.0000019	mg/Kg	5	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000011	J	0.000029	0.0000021	mg/Kg	5	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0015	B	0.000029	0.000014	mg/Kg	5	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0012	B	0.000029	0.0000082	mg/Kg	5	☼	8290A	Total/NA
OCDD	0.013	B	0.000058	0.000010	mg/Kg	5	☼	8290A	Total/NA
OCDF	0.00055	B	0.000058	0.00000085	mg/Kg	5	☼	8290A	Total/NA
Total TCDD	0.000051	q	0.0000058	0.00000049	mg/Kg	5	☼	8290A	Total/NA
Total TCDF	0.0000097	q	0.0000058	0.00000037	mg/Kg	5	☼	8290A	Total/NA
Total PeCDD	0.000047		0.000029	0.00000077	mg/Kg	5	☼	8290A	Total/NA
Total PeCDF	0.000049		0.000029	0.00000065	mg/Kg	5	☼	8290A	Total/NA
Total HxCDD	0.00061		0.000029	0.0000013	mg/Kg	5	☼	8290A	Total/NA
Total HxCDF	0.00052		0.000029	0.0000021	mg/Kg	5	☼	8290A	Total/NA
Total HpCDD	0.0029	B	0.000029	0.000014	mg/Kg	5	☼	8290A	Total/NA
Total HpCDF	0.0021	B	0.000029	0.0000094	mg/Kg	5	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	130		57	29	mg/Kg	50	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	4100		290	220	mg/Kg	50	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-03-5 — Lab Sample ID: 320-19659-9

No Detections.

Client Sample ID: OM-SS-05-2 — Lab Sample ID: 320-19659-10

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000016	J q	0.0000013	0.00000035	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000011	J q	0.0000013	0.00000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000012	J	0.0000063	0.00000073	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000045	J	0.0000063	0.00000087	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000037	J	0.0000063	0.00000088	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000025	J	0.0000063	0.0000034	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000035		0.0000063	0.0000033	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.0000091		0.0000063	0.0000028	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000032	J	0.0000063	0.0000042	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000027	J	0.0000063	0.0000038	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000028	J	0.0000063	0.0000041	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-05-2 (Continued) — Lab Sample ID: 320-19659-10

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	0.00043	B	0.0000063	0.0000029	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00036	B	0.0000063	0.0000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000040	J	0.0000063	0.0000030	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0053	E B	0.000013	0.0000031	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00019	B	0.000013	0.00000013	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.0000044	q	0.0000013	0.00000035	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.00000091	J q	0.0000013	0.00000020	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000012	q	0.0000063	0.00000073	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.0000091	q	0.0000063	0.00000087	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00017		0.0000063	0.00000032	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00015		0.0000063	0.00000041	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.00080	B	0.0000063	0.0000029	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.00067	B	0.0000063	0.0000027	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	9.7		1.3	0.63	mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	65		6.3	4.8	mg/Kg	1	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-05-5 — Lab Sample ID: 320-19659-11

No Detections.

Client Sample ID: OM-SS-07-2 — Lab Sample ID: 320-19659-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000084	J	0.0000014	0.00000090	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000055	J	0.0000014	0.00000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000037	J	0.0000068	0.00000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000094	J	0.0000068	0.00000035	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000095	J	0.0000068	0.00000036	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000066	J	0.0000068	0.00000049	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000078		0.0000068	0.00000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000021		0.0000068	0.00000042	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000071		0.0000068	0.00000093	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000068	0.00000085	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000068		0.0000068	0.00000091	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-07-2 (Continued) — Lab Sample ID: 320-19659-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	0.0010	B G	0.0000082	0.0000082	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00061	B	0.0000068	0.0000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000088		0.0000068	0.0000062	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.011	E B	0.000014	0.0000066	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00038	B	0.000014	0.00000019	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000022	q	0.0000014	0.00000090	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000050	q	0.0000014	0.00000048	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000029		0.0000068	0.00000017	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000025	q	0.0000068	0.00000035	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00039	q	0.0000068	0.00000046	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00032	q	0.0000068	0.00000091	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0019	B G	0.0000082	0.0000082	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0012	B	0.0000068	0.0000055	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	54		1.4	0.69	mg/Kg	1	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	130		6.9	5.2	mg/Kg	1	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-07-5 — Lab Sample ID: 320-19659-13

No Detections.

Client Sample ID: OM-SS-04-2 — Lab Sample ID: 320-19659-14

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000016	J	0.0000020	0.00000018	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.0000015	J	0.0000020	0.00000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000072	J	0.0000098	0.00000045	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000040	J	0.0000098	0.0000012	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000035	J	0.0000098	0.0000012	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000018		0.0000098	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00013		0.0000098	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000038		0.0000098	0.00000092	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000029		0.0000098	0.0000033	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000030		0.0000098	0.0000030	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000028		0.0000098	0.0000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0024	B G	0.000013	0.000013	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0026	B G	0.000016	0.000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000038	G	0.000021	0.000021	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.022	E B	0.000020	0.000014	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0019	B	0.000020	0.0000011	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-04-2 (Continued) — Lab Sample ID: 320-19659-14

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.000042	q	0.0000020	0.00000018	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000019	q	0.0000020	0.00000016	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000065	q	0.0000098	0.00000045	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00013		0.0000098	0.0000012	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00073		0.0000098	0.0000010	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0013		0.0000098	0.0000032	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0045	B G	0.000013	0.000013	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0050	B G	0.000018	0.000018	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	160		10	5.0	mg/Kg	5	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	730		50	38	mg/Kg	5	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-04-5 — Lab Sample ID: 320-19659-15

No Detections.

Client Sample ID: OM-SS-15-2 — Lab Sample ID: 320-19659-16

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000014	J	0.0000017	0.00000069	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000090	J	0.0000017	0.00000087	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000063	J	0.0000085	0.00000015	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000019	J	0.0000085	0.00000047	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000018	J	0.0000085	0.00000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000095		0.0000085	0.00000068	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000087		0.0000085	0.00000065	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000031		0.0000085	0.00000057	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000014		0.0000085	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000017		0.0000085	0.0000014	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000013		0.0000085	0.0000015	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0011	B	0.0000085	0.0000059	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000085	0.0000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000016		0.0000085	0.0000070	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0088	E B	0.000017	0.0000055	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00084	B	0.000017	0.00000046	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000022	q	0.0000017	0.00000069	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000070	q	0.0000017	0.00000087	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000051		0.0000085	0.00000015	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-15-2 (Continued) — Lab Sample ID: 320-19659-16

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total PeCDF	0.000060	q	0.0000085	0.00000048	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00048		0.0000085	0.00000063	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00072		0.0000085	0.0000015	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0020	B	0.0000085	0.0000059	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0023	B	0.0000085	0.0000063	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-14-2 — Lab Sample ID: 320-19659-19

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000018		0.0000013	0.00000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000078		0.0000067	0.00000080	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000023	J	0.0000067	0.00000054	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000023	J	0.0000067	0.00000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000015		0.0000067	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00011		0.0000067	0.00000099	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000036		0.0000067	0.00000087	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000014		0.0000067	0.0000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000095		0.0000067	0.0000022	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000079		0.0000067	0.0000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0014	B	0.0000067	0.0000062	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0011	G B	0.0000068	0.0000068	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000025	G	0.0000087	0.0000087	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.014	E B	0.000013	0.0000080	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00076	B	0.000013	0.00000044	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000032	q	0.0000013	0.00000011	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000010	q	0.0000013	0.00000010	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000057	q	0.0000067	0.00000080	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000063		0.0000067	0.00000054	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00075		0.0000067	0.00000096	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00065		0.0000067	0.0000024	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0028	B	0.0000067	0.0000062	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0026	G B	0.0000078	0.0000078	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.00000065	J	0.0000013	0.00000041	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-13-2 — Lab Sample ID: 320-19659-20

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000096	J	0.0000013	0.00000011	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-13-2 (Continued) — Lab Sample ID: 320-19659-20

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.0000013	J	0.0000013	0.00000097	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000055	J	0.0000065	0.00000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000032	J	0.0000065	0.00000043	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000025	J q	0.0000065	0.00000043	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000011		0.0000065	0.00000057	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00010		0.0000065	0.00000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000028		0.0000065	0.00000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000018		0.0000065	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000017		0.0000065	0.0000014	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000014		0.0000065	0.0000015	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0014	B	0.0000065	0.0000053	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0014	B G	0.0000091	0.0000091	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000026	G	0.000012	0.000012	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.016	E B	0.000013	0.0000075	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00065	B	0.000013	0.00000038	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000029	q	0.0000013	0.00000011	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000012	q	0.0000013	0.00000097	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000046	q	0.0000065	0.00000023	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000074	q	0.0000065	0.00000043	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00060		0.0000065	0.00000053	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00076	q	0.0000065	0.0000015	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0026	B	0.0000065	0.0000053	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0030	B G	0.000010	0.000010	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-16 — Lab Sample ID: 320-19659-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	490		34	17	mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	1500	B	170	130	mg/Kg	10	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-19 — Lab Sample ID: 320-19659-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	450		16	7.8	mg/Kg	5	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	1600		78	59	mg/Kg	5	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-17 — Lab Sample ID: 320-19659-24

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-17 (Continued) — Lab Sample ID: 320-19659-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	270		8.0	4.0	mg/Kg	5	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	1200		40	30	mg/Kg	5	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-11-2 — Lab Sample ID: 320-19659-25

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000029		0.0000012	0.000000070	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000013		0.0000061	0.00000057	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000035	J	0.0000061	0.00000070	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000034	J	0.0000061	0.00000071	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000018		0.0000061	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00017		0.0000061	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000073		0.0000061	0.00000088	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000024		0.0000061	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000025		0.0000061	0.0000015	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000019		0.0000061	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0020	B G	0.0000062	0.0000062	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0024	B G	0.0000062	0.0000062	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000026	G	0.0000079	0.0000079	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.018	E B	0.000012	0.0000088	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0012	B	0.000012	0.00000056	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000052	q	0.0000012	0.000000070	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000013	q	0.0000012	0.00000012	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00015		0.0000061	0.00000057	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000094		0.0000061	0.00000071	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0011		0.0000061	0.00000098	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0012		0.0000061	0.0000016	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0037	B G	0.0000062	0.0000062	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0043	B G	0.0000070	0.0000070	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.00000089	J	0.0000012	0.00000032	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-10-2 — Lab Sample ID: 320-19659-27

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000026	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000026		0.0000061	0.00000041	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000025	J q	0.0000061	0.00000078	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-10-2 (Continued) — Lab Sample ID: 320-19659-27

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,4,7,8-PeCDF	0.0000028	J	0.0000061	0.00000079	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000044		0.0000061	0.00000092	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00024		0.0000061	0.00000089	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00011		0.0000061	0.00000078	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000022		0.0000061	0.0000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000018		0.0000061	0.0000021	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000016		0.0000061	0.0000022	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0032	E B G	0.000010	0.000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0022	B G	0.0000067	0.0000067	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000027	G	0.0000086	0.0000086	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0012	B	0.000012	0.00000058	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00011		0.0000012	0.00000026	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000012		0.0000012	0.00000015	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00023		0.0000061	0.00000041	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000075	q	0.0000061	0.00000078	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0017		0.0000061	0.00000087	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0011	q	0.0000061	0.0000022	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0058	B G	0.000010	0.000010	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0041	B G	0.0000077	0.0000077	mg/Kg	1	☼	8290A	Total/NA
OCDD - DL	0.029	B	0.00024	0.000026	mg/Kg	20	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.00000066	J	0.0000012	0.00000020	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-20 — Lab Sample ID: 320-19659-29

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000067		0.0000017	0.00000015	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000052		0.0000086	0.0000037	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.000012		0.0000086	0.0000014	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.000014		0.0000086	0.0000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.00011		0.0000086	0.0000038	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00063		0.0000086	0.0000037	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00030		0.0000086	0.0000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.00013	G	0.000018	0.000018	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.00014	G	0.000017	0.000017	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.00015	G	0.000018	0.000018	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0042	E B G	0.000019	0.000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.019	E B G	0.000059	0.000059	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000079	G	0.000075	0.000075	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.014	E B	0.000017	0.0000071	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0068	B	0.000017	0.0000029	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00014		0.0000017	0.00000015	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-20 (Continued) — Lab Sample ID: 320-19659-29

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDF	0.000052		0.0000017	0.00000023	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00060		0.0000086	0.0000037	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00057		0.0000086	0.0000014	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0042		0.0000086	0.0000036	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0074	G	0.000018	0.000018	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0072	B G	0.000019	0.000019	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.030	B G	0.000067	0.000067	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.0000015	J	0.0000017	0.00000080	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-09-2 — Lab Sample ID: 320-19659-30

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000021		0.0000011	0.00000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000012		0.0000057	0.00000038	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000045	J	0.0000057	0.00000073	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000035	J	0.0000057	0.00000075	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000025		0.0000057	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00023		0.0000057	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000073		0.0000057	0.00000087	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000024		0.0000057	0.0000027	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000019		0.0000057	0.0000025	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000016		0.0000057	0.0000026	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0018	G B	0.0000089	0.0000089	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000027	G	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0010	B	0.000011	0.00000047	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000087		0.0000011	0.00000032	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000014	q	0.0000011	0.00000013	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00013		0.0000057	0.00000038	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000086		0.0000057	0.00000074	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0013		0.0000057	0.00000096	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00099	q	0.0000057	0.0000026	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0035	G B	0.000010	0.000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	0.0038	B	0.000057	0.000038	mg/Kg	10	☼	8290A	Total/NA
OCDD - DL	0.033	B	0.00011	0.000021	mg/Kg	10	☼	8290A	Total/NA
Total HpCDD - DL	0.0071	B	0.000057	0.000038	mg/Kg	10	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.00000086	J	0.0000011	0.00000026	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	74		5.8	2.9	mg/Kg	5	☼	8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-09-2 (Continued) — Lab Sample ID: 320-19659-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics (C24-C40)	520		29	22	mg/Kg	5	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-09-5 — Lab Sample ID: 320-19659-31

No Detections.

Client Sample ID: OM-SS-08-2 — Lab Sample ID: 320-19659-32

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000037		0.0000013	0.00000029	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000019		0.0000064	0.00000043	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000084		0.0000064	0.00000065	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000074		0.0000064	0.00000066	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000030		0.0000064	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00027		0.0000064	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00010		0.0000064	0.00000093	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000038		0.0000064	0.0000036	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000029		0.0000064	0.0000033	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000025		0.0000064	0.0000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000033	G	0.000015	0.000015	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0015	B	0.000013	0.00000080	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000097	q	0.0000013	0.00000029	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000015		0.0000013	0.00000012	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00020		0.0000064	0.00000043	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00013	q	0.0000064	0.00000066	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0016		0.0000064	0.0000010	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0017		0.0000064	0.0000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	0.0046	B	0.000064	0.000039	mg/Kg	10	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	0.0037	B	0.000064	0.000020	mg/Kg	10	☼	8290A	Total/NA
OCDD - DL	0.043	B	0.00013	0.000023	mg/Kg	10	☼	8290A	Total/NA
Total HpCDD - DL	0.0093	B	0.000064	0.000039	mg/Kg	10	☼	8290A	Total/NA
Total HpCDF - DL	0.0066	B	0.000064	0.000022	mg/Kg	10	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.0000016		0.0000013	0.00000031	mg/Kg	1	☼	8290A	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	130		13	6.5	mg/Kg	10	☼	8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	460		65	49	mg/Kg	10	☼	8015B	Silica Gel Cleanup

Client Sample ID: OM-SS-08-5 — Lab Sample ID: 320-19659-33

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-12-2 — Lab Sample ID: 320-19659-34

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000013		0.0000013	0.00000085	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000036	J	0.0000013	0.00000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000056	J	0.0000066	0.00000028	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000010	J	0.0000066	0.00000023	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000082	J	0.0000066	0.00000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000071		0.0000066	0.00000070	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000051		0.0000066	0.00000068	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000026		0.0000066	0.00000059	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000070		0.0000066	0.0000012	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000064	J	0.0000066	0.0000011	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000061	J	0.0000066	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00069	B	0.0000066	0.0000038	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000066	0.0000044	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000065	J	0.0000066	0.0000056	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0064	E B	0.000013	0.0000042	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00045	B	0.000013	0.00000033	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000022	q	0.0000013	0.00000085	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000040	q	0.0000013	0.00000010	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000063		0.0000066	0.00000028	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000026		0.0000066	0.00000023	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00043		0.0000066	0.00000066	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00038		0.0000066	0.0000011	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0014	B	0.0000066	0.0000038	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0018	B	0.0000066	0.0000050	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-21 — Lab Sample ID: 320-19659-36

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000014		0.0000013	0.00000074	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000051	J	0.0000013	0.00000062	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000062	J	0.0000065	0.00000021	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000012	J	0.0000065	0.00000025	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000088	J	0.0000065	0.00000025	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000074		0.0000065	0.00000071	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000060		0.0000065	0.00000069	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-21 (Continued) — Lab Sample ID: 320-19659-36

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	0.000030		0.0000065	0.00000060	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000079		0.0000065	0.00000099	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000075		0.0000065	0.00000091	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000068		0.0000065	0.00000097	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00074	B	0.0000065	0.0000040	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000065	0.0000045	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000065		0.0000065	0.0000057	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0065	E B	0.000013	0.0000044	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00045	B	0.000013	0.00000029	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000025		0.0000013	0.00000000 74	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000031	q	0.0000013	0.00000000 62	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000068		0.0000065	0.00000021	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000030		0.0000065	0.00000025	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00047		0.0000065	0.00000067	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00044		0.0000065	0.00000097	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0015	B	0.0000065	0.0000040	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0018	B	0.0000065	0.0000051	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-W — Lab Sample ID: 320-19659-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C12-C24]	48	J B	52	17	ug/L	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics (C24-C40)	280	J B	520	170	ug/L	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-01-2

Date Collected: 06/16/16 08:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-1

Matrix: Solid
Percent Solids: 84.9

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	100		12	5.9	mg/Kg	☼	06/30/16 11:58	07/06/16 13:48	10
Motor Oil Range Organics (C24-C40)	570	B	59	44	mg/Kg	☼	06/30/16 11:58	07/06/16 13:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*63 - 141*	*06/30/16 11:58*	*07/06/16 13:48*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000064	J	0.0000012	0.000000098	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,7,8-TCDF	0.00000037	J	0.0000012	0.000000036	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8-PeCDD	0.0000045	J	0.0000059	0.00000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8-PeCDF	0.00000083	J q	0.0000059	0.00000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,4,7,8-PeCDF	0.0000010	J	0.0000059	0.00000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8-HxCDD	0.0000085		0.0000059	0.00000063	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,6,7,8-HxCDD	0.000082		0.0000059	0.00000061	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8,9-HxCDD	0.000025		0.0000059	0.00000053	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8-HxCDF	0.0000089		0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,6,7,8-HxCDF	0.0000071		0.0000059	0.0000016	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,7,8,9-HxCDF	ND		0.0000059	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
2,3,4,6,7,8-HxCDF	0.0000063		0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,6,7,8-HpCDD	0.0016	G B	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,6,7,8-HpCDF	0.00095	B	0.0000059	0.0000058	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
1,2,3,4,7,8,9-HpCDF	0.000014	G	0.0000074	0.0000074	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
OCDF	0.00088	B	0.000012	0.0000055	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total TCDD	0.000024	q	0.0000012	0.000000098	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total TCDF	0.0000028	q	0.0000012	0.000000036	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total PeCDD	0.000065		0.0000059	0.00000018	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total PeCDF	0.000028	q	0.0000059	0.00000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HxCDD	0.00041	q	0.0000059	0.0000059	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HxCDF	0.00043		0.0000059	0.0000017	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HpCDD	0.0030	G B	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1
Total HpCDF	0.0020	G B	0.0000066	0.0000066	mg/Kg	☼	07/12/16 13:07	07/17/16 18:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,7,8-PeCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/17/16 18:23*	*1*

Client Sample ID: OM-SS-01-2

Lab Sample ID: 320-19659-1
Date Collected: 06/16/16 08:07
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 84.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	88		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-1,2,3,4,6,7,8-HpCDD	97		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-1,2,3,4,6,7,8-HpCDF	87		40 - 135	07/12/16 13:07	07/17/16 18:23	1
13C-OCDD	93		40 - 135	07/12/16 13:07	07/17/16 18:23	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.11	B	0.00059	0.000094	mg/Kg	☼	07/12/16 13:07	07/20/16 18:24	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	97		40 - 135	07/12/16 13:07	07/20/16 18:24	50

Client Sample ID: OM-SS-02-2

Lab Sample ID: 320-19659-3
Date Collected: 06/16/16 08:53
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 82.5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	56		24	12	mg/Kg	☼	06/24/16 13:15	06/29/16 00:41	20
Motor Oil Range Organics (C24-C40)	720		120	90	mg/Kg	☼	06/24/16 13:15	06/29/16 00:41	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	78		63 - 141	06/24/16 13:15	06/29/16 00:41	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000014	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,7,8-TCDF	0.00000090	J	0.0000012	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8-PeCDD	0.000036		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8-PeCDF	0.0000031	J	0.0000061	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,4,7,8-PeCDF	0.0000027	J	0.0000061	0.00000066	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8-HxCDD	0.000052		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,6,7,8-HxCDD	0.00033		0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8,9-HxCDD	0.00017		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8-HxCDF	0.000027		0.0000061	0.0000052	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,6,7,8-HxCDF	0.000016		0.0000061	0.0000048	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,7,8,9-HxCDF	ND		0.0000061	0.0000054	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
2,3,4,6,7,8-HxCDF	0.000014		0.0000061	0.0000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,6,7,8-HpCDD	0.0041	E B G	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,6,7,8-HpCDF	0.0027	E B G	0.000017	0.000017	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
1,2,3,4,7,8,9-HpCDF	0.000038	G	0.000022	0.000022	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
OCDD	0.026	E B G	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
OCDF	0.0014	B	0.000012	0.00000079	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total TCDD	0.00010		0.0000012	0.00000014	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total TCDF	0.0000050	q	0.0000012	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1

Client Sample ID: OM-SS-02-2

Lab Sample ID: 320-19659-3
Date Collected: 06/16/16 08:53
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 82.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	0.00036	q	0.0000061	0.0000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total PeCDF	0.000056		0.0000061	0.00000065	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HxCDD	0.0024		0.0000061	0.0000018	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HxCDF	0.0013		0.0000061	0.0000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HpCDD	0.0076	B G	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1
Total HpCDF	0.0054	B G	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,6,7,8-HxCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*74*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*
13C-OCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:09*	*1*

Client Sample ID: OM-SS-18

Lab Sample ID: 320-19659-5
Date Collected: 06/16/16 09:00
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 82.6

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	100		12	6.1	mg/Kg	☼	06/24/16 13:15	06/29/16 01:10	10
Motor Oil Range Organics (C24-C40)	1300		61	46	mg/Kg	☼	06/24/16 13:15	06/29/16 01:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*84*		*63 - 141*	*06/24/16 13:15*	*06/29/16 01:10*	*10*

Client Sample ID: OM-SS-06-2

Lab Sample ID: 320-19659-6
Date Collected: 06/16/16 09:11
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 91.9

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	22		1.1	0.56	mg/Kg	☼	06/30/16 11:58	07/07/16 01:35	1
Motor Oil Range Organics (C24-C40)	120	B	5.6	4.2	mg/Kg	☼	06/30/16 11:58	07/07/16 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*98*		*63 - 141*	*06/30/16 11:58*	*07/07/16 01:35*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000011	0.00000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,7,8-TCDF	0.00000066	J	0.0000011	0.00000097	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8-PeCDD	0.0000022	J	0.0000054	0.00000028	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1

Client Sample ID: OM-SS-06-2

Date Collected: 06/16/16 09:11
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-6

Matrix: Solid
Percent Solids: 91.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	0.00000090	J	0.0000054	0.00000041	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,4,7,8-PeCDF	0.0000013	J	0.0000054	0.00000042	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8-HxCDD	0.000010		0.0000054	0.00000055	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,6,7,8-HxCDD	0.000089		0.0000054	0.00000053	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8,9-HxCDD	0.000015		0.0000054	0.00000046	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8-HxCDF	0.0000092		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,6,7,8-HxCDF	0.0000084		0.0000054	0.00000096	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,7,8,9-HxCDF	ND		0.0000054	0.0000011	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
2,3,4,6,7,8-HxCDF	0.0000070		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,6,7,8-HpCDD	0.0012	B G	0.0000064	0.0000064	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,6,7,8-HpCDF	0.00060	B	0.0000054	0.0000031	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
1,2,3,4,7,8,9-HpCDF	0.0000091		0.0000054	0.0000039	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
OCDD	0.011	E B	0.000011	0.0000094	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
OCDF	0.00030	B	0.000011	0.00000027	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total TCDD	0.00014		0.0000011	0.00000019	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total TCDF	0.000013	q	0.0000011	0.00000097	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total PeCDD	0.000026	q	0.0000054	0.00000028	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total PeCDF	0.000035		0.0000054	0.00000042	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HxCDD	0.00039	q	0.0000054	0.00000051	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HxCDF	0.00032		0.0000054	0.0000010	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HpCDD	0.0020	B G	0.0000064	0.0000064	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1
Total HpCDF	0.0011	B	0.0000054	0.0000035	mg/Kg	☼	07/12/16 13:07	07/17/16 19:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-2,3,7,8-TCDF	*79*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*
13C-OCDD	*96*		*40 - 135*	*07/12/16 13:07*	*07/17/16 19:55*	*1*

Client Sample ID: OM-SS-03-2

Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8

Matrix: Solid
Percent Solids: 85.1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	130		57	29	mg/Kg	☼	06/24/16 13:15	06/29/16 01:39	50

Client Sample ID: OM-SS-03-2
Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8
Matrix: Solid
Percent Solids: 85.1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics (C24-C40)	4100		290	220	mg/Kg	☼	06/24/16 13:15	06/29/16 01:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*79*		*63 - 141*	*06/24/16 13:15*	*06/29/16 01:39*	*50*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000058	0.00000049	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,7,8-TCDF	0.00000079	J	0.0000058	0.00000037	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8-PeCDD	0.0000048	J	0.000029	0.00000077	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8-PeCDF	ND		0.000029	0.00000065	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,4,7,8-PeCDF	0.0000018	J	0.000029	0.00000066	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8-HxCDD	0.000010	J	0.000029	0.0000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,6,7,8-HxCDD	0.00011		0.000029	0.0000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8,9-HxCDD	0.000027	J	0.000029	0.0000012	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8-HxCDF	0.000014	J	0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,6,7,8-HxCDF	0.000013	J	0.000029	0.0000019	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,7,8,9-HxCDF	ND		0.000029	0.0000022	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
2,3,4,6,7,8-HxCDF	0.000011	J	0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,6,7,8-HpCDD	0.0015	B	0.000029	0.000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,6,7,8-HpCDF	0.0012	B	0.000029	0.0000082	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
1,2,3,4,7,8,9-HpCDF	ND		0.000029	0.000011	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
OCDD	0.013	B	0.000058	0.000010	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
OCDF	0.00055	B	0.000058	0.00000085	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total TCDD	0.000051	q	0.0000058	0.00000049	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total TCDF	0.0000097	q	0.0000058	0.00000037	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total PeCDD	0.000047		0.000029	0.00000077	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total PeCDF	0.000049		0.000029	0.00000065	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HxCDD	0.00061		0.000029	0.0000013	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HxCDF	0.00052		0.000029	0.0000021	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HpCDD	0.0029	B	0.000029	0.000014	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5
Total HpCDF	0.0021	B	0.000029	0.0000094	mg/Kg	☼	07/12/16 13:07	07/20/16 16:51	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-2,3,7,8-TCDF	*79*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,7,8-PeCDF	*82*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,7,8-HxCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/20/16 16:51*	*5*

Client Sample ID: OM-SS-03-2

Lab Sample ID: 320-19659-8
Date Collected: 06/16/16 09:25
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 85.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	87		40 - 135	07/12/16 13:07	07/20/16 16:51	5

Client Sample ID: OM-SS-05-2

Lab Sample ID: 320-19659-10
Date Collected: 06/16/16 09:47
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 79.4

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	9.7		1.3	0.63	mg/Kg	☼	06/24/16 13:15	06/29/16 02:32	1
Motor Oil Range Organics (C24-C40)	65		6.3	4.8	mg/Kg	☼	06/24/16 13:15	06/29/16 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	92		63 - 141	06/24/16 13:15	06/29/16 02:32	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000016	J q	0.0000013	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,7,8-TCDF	0.00000011	J q	0.0000013	0.00000020	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8-PeCDD	0.0000012	J	0.0000063	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8-PeCDF	0.00000045	J	0.0000063	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,4,7,8-PeCDF	0.00000037	J	0.0000063	0.00000088	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8-HxCDD	0.0000025	J	0.0000063	0.0000003 4	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,6,7,8-HxCDD	0.000035		0.0000063	0.0000003 3	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8,9-HxCDD	0.0000091		0.0000063	0.0000002 8	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8-HxCDF	0.0000032	J	0.0000063	0.0000004 2	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,6,7,8-HxCDF	0.0000027	J	0.0000063	0.0000003 8	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,7,8,9-HxCDF	ND		0.0000063	0.0000004 3	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
2,3,4,6,7,8-HxCDF	0.0000028	J	0.0000063	0.0000004 1	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,6,7,8-HpCDD	0.00043	B	0.0000063	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,6,7,8-HpCDF	0.00036	B	0.0000063	0.0000023	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
1,2,3,4,7,8,9-HpCDF	0.0000040	J	0.0000063	0.0000030	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
OCDD	0.0053	E B	0.000013	0.0000031	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
OCDF	0.00019	B	0.000013	0.0000001 3	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total TCDD	0.0000044	q	0.0000013	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total TCDF	0.00000091	J q	0.0000013	0.00000020	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total PeCDD	0.000012	q	0.0000063	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total PeCDF	0.0000091	q	0.0000063	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1

Client Sample ID: OM-SS-05-2

Date Collected: 06/16/16 09:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-10

Matrix: Solid
Percent Solids: 79.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	0.00017		0.0000063	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HxCDF	0.00015		0.0000063	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HpCDD	0.00080	B	0.0000063	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1
Total HpCDF	0.00067	B	0.0000063	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 01:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,7,8-PeCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*105*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*
13C-OCDD	*109*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:02*	*1*

Client Sample ID: OM-SS-07-2

Date Collected: 06/16/16 10:04
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-12

Matrix: Solid
Percent Solids: 74.0

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	54		1.4	0.69	mg/Kg	☼	06/24/16 13:15	06/29/16 03:01	1
Motor Oil Range Organics (C24-C40)	130		6.9	5.2	mg/Kg	☼	06/24/16 13:15	06/29/16 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*93*		*63 - 141*	*06/24/16 13:15*	*06/29/16 03:01*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000084	J	0.0000014	0.00000090	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,7,8-TCDF	0.00000055	J	0.0000014	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8-PeCDD	0.0000037	J	0.0000068	0.00000017	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8-PeCDF	0.00000094	J	0.0000068	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,4,7,8-PeCDF	0.00000095	J	0.0000068	0.00000036	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8-HxCDD	0.0000066	J	0.0000068	0.00000049	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,6,7,8-HxCDD	0.000078		0.0000068	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,7,8,9-HxCDD	0.000021		0.0000068	0.00000042	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8-HxCDF	0.0000071		0.0000068	0.00000093	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000068	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1

Client Sample ID: OM-SS-07-2

Lab Sample ID: 320-19659-12
Date Collected: 06/16/16 10:04
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 74.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	ND		0.0000068	0.00000095	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
2,3,4,6,7,8-HxCDF	**0.0000068**		0.0000068	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,6,7,8-HpCDD	**0.0010**	**B G**	0.0000082	0.0000082	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,6,7,8-HpCDF	**0.00061**	**B**	0.0000068	0.0000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
1,2,3,4,7,8,9-HpCDF	**0.0000088**		0.0000068	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
OCDD	**0.011**	**E B**	0.000014	0.0000066	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
OCDF	**0.00038**	**B**	0.000014	0.00000019	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total TCDD	**0.000022**	**q**	0.0000014	0.000000090	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total TCDF	**0.0000050**	**q**	0.0000014	0.000000048	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total PeCDD	**0.000029**		0.0000068	0.00000017	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total PeCDF	**0.000025**	**q**	0.0000068	0.00000035	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HxCDD	**0.00039**	**q**	0.0000068	0.00000046	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HxCDF	**0.00032**	**q**	0.0000068	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HpCDD	**0.0019**	**B G**	0.0000082	0.0000082	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1
Total HpCDF	**0.0012**	**B**	0.0000068	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 01:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,4,7,8-HxCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*
13C-OCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 01:49*	*1*

Client Sample ID: OM-SS-04-2

Lab Sample ID: 320-19659-14
Date Collected: 06/16/16 10:21
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 50.6

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	**160**		10	5.0	mg/Kg	☼	06/24/16 13:15	07/01/16 10:24	5
Motor Oil Range Organics (C24-C40)	**730**		50	38	mg/Kg	☼	06/24/16 13:15	07/01/16 10:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*111*		*63 - 141*	*06/24/16 13:15*	*07/01/16 10:24*	*5*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**0.0000016**	**J**	0.0000020	0.00000018	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1

Client Sample ID: OM-SS-04-2

Lab Sample ID: 320-19659-14
Date Collected: 06/16/16 10:21
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 50.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000015	J	0.0000020	0.0000001 6	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8-PeCDD	0.0000072	J	0.0000098	0.0000004 5	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8-PeCDF	0.0000040	J	0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
2,3,4,7,8-PeCDF	0.0000035	J	0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8-HxCDD	0.000018		0.0000098	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,6,7,8-HxCDD	0.00013		0.0000098	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8,9-HxCDD	0.000038		0.0000098	0.0000009 2	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8-HxCDF	0.000029		0.0000098	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,6,7,8-HxCDF	0.000030		0.0000098	0.0000030	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,7,8,9-HxCDF	ND		0.0000098	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
2,3,4,6,7,8-HxCDF	0.000028		0.0000098	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,6,7,8-HpCDD	0.0024	B G	0.000013	0.000013	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,6,7,8-HpCDF	0.0026	B G	0.000016	0.000016	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
1,2,3,4,7,8,9-HpCDF	0.000038	G	0.000021	0.000021	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
OCDD	0.022	E B	0.000020	0.000014	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
OCDF	0.0019	B	0.000020	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total TCDD	0.000042	q	0.0000020	0.0000001 8	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total TCDF	0.000019	q	0.0000020	0.0000001 6	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total PeCDD	0.000065	q	0.0000098	0.0000004 5	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total PeCDF	0.00013		0.0000098	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HxCDD	0.00073		0.0000098	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HxCDF	0.0013		0.0000098	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HpCDD	0.0045	B G	0.000013	0.000013	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1
Total HpCDF	0.0050	B G	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 02:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-2,3,7,8-TCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,7,8-PeCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,7,8-PeCDF	*81*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,6,7,8-HxCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*
13C-OCDD	*93*		*40 - 135*	*07/12/16 13:07*	*07/18/16 02:35*	*1*

Client Sample ID: OM-SS-15-2

Lab Sample ID: 320-19659-16
Date Collected: 06/16/16 10:32
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000014	J	0.0000017	0.0000000 69	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,7,8-TCDF	0.00000090	J	0.0000017	0.0000000 87	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1

Client Sample ID: OM-SS-15-2
Date Collected: 06/16/16 10:32
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-16
Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.0000063	J	0.0000085	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8-PeCDF	0.0000019	J	0.0000085	0.00000047	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,4,7,8-PeCDF	0.0000018	J	0.0000085	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8-HxCDD	0.0000095		0.0000085	0.00000068	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,6,7,8-HxCDD	0.000087		0.0000085	0.00000065	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8,9-HxCDD	0.000031		0.0000085	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8-HxCDF	0.000014		0.0000085	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,6,7,8-HxCDF	0.000017		0.0000085	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,7,8,9-HxCDF	ND		0.0000085	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
2,3,4,6,7,8-HxCDF	0.000013		0.0000085	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,6,7,8-HpCDD	0.0011	B	0.0000085	0.0000059	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000085	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
1,2,3,4,7,8,9-HpCDF	0.000016		0.0000085	0.0000070	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
OCDD	0.0088	E B	0.000017	0.0000055	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
OCDF	0.00084	B	0.000017	0.00000046	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total TCDD	0.000022	q	0.0000017	0.00000069	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total TCDF	0.0000070	q	0.0000017	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total PeCDD	0.000051		0.0000085	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total PeCDF	0.000060	q	0.0000085	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HxCDD	0.00048		0.0000085	0.00000063	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HxCDF	0.00072		0.0000085	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HpCDD	0.0020	B	0.0000085	0.0000059	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1
Total HpCDF	0.0023	B	0.0000085	0.0000063	mg/Kg	☼	07/12/16 13:07	07/18/16 03:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-2,3,7,8-TCDF	*82*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,7,8-PeCDF	*83*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*
13C-OCDD	*99*		*40 - 135*	*07/12/16 13:07*	*07/18/16 03:21*	*1*

Client Sample ID: OM-SS-14-2
Date Collected: 06/16/16 10:45
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-19
Matrix: Solid
Percent Solids: 75.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000018		0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8-PeCDD	0.0000078		0.0000067	0.00000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8-PeCDF	0.0000023	J	0.0000067	0.00000054	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
2,3,4,7,8-PeCDF	0.0000023	J	0.0000067	0.00000055	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8-HxCDD	0.000015		0.0000067	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,6,7,8-HxCDD	0.00011		0.0000067	0.00000099	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8,9-HxCDD	0.000036		0.0000067	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8-HxCDF	0.000014		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,6,7,8-HxCDF	0.0000095		0.0000067	0.0000022	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,7,8,9-HxCDF	ND		0.0000067	0.0000025	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
2,3,4,6,7,8-HxCDF	0.0000079		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,6,7,8-HpCDD	0.0014	B	0.0000067	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,6,7,8-HpCDF	0.0011	G B	0.0000068	0.0000068	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
1,2,3,4,7,8,9-HpCDF	0.000025	G	0.0000087	0.0000087	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
OCDD	0.014	E B	0.000013	0.0000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
OCDF	0.00076	B	0.000013	0.00000044	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total TCDD	0.000032	q	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total TCDF	0.000010	q	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total PeCDD	0.000057	q	0.0000067	0.00000080	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total PeCDF	0.000063		0.0000067	0.00000054	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HxCDD	0.00075		0.0000067	0.00000096	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HxCDF	0.00065		0.0000067	0.0000024	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HpCDD	0.0028	B	0.0000067	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1
Total HpCDF	0.0026	G B	0.0000078	0.0000078	mg/Kg	☼	07/12/16 13:07	07/18/16 04:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-2,3,7,8-TCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,7,8-HxCDF	*118*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*
13C-OCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 04:07*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000065	J	0.0000013	0.00000041	mg/Kg	☼	07/12/16 13:07	07/19/16 16:28	1

Client Sample ID: OM-SS-14-2

Lab Sample ID: 320-19659-19
Date Collected: 06/16/16 10:45
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 75.0

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	85		40 - 135	07/12/16 13:07	07/19/16 16:28	1

Client Sample ID: OM-SS-13-2

Lab Sample ID: 320-19659-20
Date Collected: 06/16/16 10:54
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 76.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000096	J	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,7,8-TCDF	0.0000013	J	0.0000013	0.0000000097	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8-PeCDD	0.0000055	J	0.0000065	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8-PeCDF	0.0000032	J	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,4,7,8-PeCDF	0.0000025	J q	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8-HxCDD	0.000011		0.0000065	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,6,7,8-HxCDD	0.00010		0.0000065	0.00000055	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8,9-HxCDD	0.000028		0.0000065	0.00000048	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8-HxCDF	0.000018		0.0000065	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,6,7,8-HxCDF	0.000017		0.0000065	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,7,8,9-HxCDF	ND		0.0000065	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
2,3,4,6,7,8-HxCDF	0.000014		0.0000065	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,6,7,8-HpCDD	0.0014	B	0.0000065	0.0000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,6,7,8-HpCDF	0.0014	B G	0.0000091	0.0000091	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
1,2,3,4,7,8,9-HpCDF	0.000026	G	0.000012	0.000012	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
OCDD	0.016	E B	0.000013	0.0000075	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
OCDF	0.00065	B	0.000013	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total TCDD	0.000029	q	0.0000013	0.00000011	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total TCDF	0.000012	q	0.0000013	0.0000000097	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total PeCDD	0.000046	q	0.0000065	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total PeCDF	0.000074	q	0.0000065	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HxCDD	0.00060		0.0000065	0.00000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HxCDF	0.00076	q	0.0000065	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HpCDD	0.0026	B	0.0000065	0.0000053	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1
Total HpCDF	0.0030	B G	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 04:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	87		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-2,3,7,8-TCDF	84		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,7,8-PeCDD	96		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,7,8-PeCDF	89		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,6,7,8-HxCDD	96		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,4,7,8-HxCDF	116		40 - 135	07/12/16 13:07	07/18/16 04:53	1

Client Sample ID: OM-SS-13-2

Lab Sample ID: 320-19659-20
Date Collected: 06/16/16 10:54
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 76.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	95		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-1,2,3,4,6,7,8-HpCDF	60		40 - 135	07/12/16 13:07	07/18/16 04:53	1
13C-OCDD	100		40 - 135	07/12/16 13:07	07/18/16 04:53	1

Client Sample ID: OM-SS-16

Lab Sample ID: 320-19659-22
Date Collected: 06/16/16 11:04
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 59.7

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	490		34	17	mg/Kg	☼	06/30/16 11:58	07/07/16 02:04	10
Motor Oil Range Organics (C24-C40)	1500	B	170	130	mg/Kg	☼	06/30/16 11:58	07/07/16 02:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	120		63 - 141	06/30/16 11:58	07/07/16 02:04	10

Client Sample ID: OM-SS-19

Lab Sample ID: 320-19659-23
Date Collected: 06/16/16 11:08
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 63.8

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	450		16	7.8	mg/Kg	☼	06/24/16 13:15	07/01/16 10:52	5
Motor Oil Range Organics (C24-C40)	1600		78	59	mg/Kg	☼	06/24/16 13:15	07/01/16 10:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	131		63 - 141	06/24/16 13:15	07/01/16 10:52	5

Client Sample ID: OM-SS-17

Lab Sample ID: 320-19659-24
Date Collected: 06/16/16 11:13
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 64.0

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	270		8.0	4.0	mg/Kg	☼	06/24/16 13:15	06/29/16 04:27	5
Motor Oil Range Organics (C24-C40)	1200		40	30	mg/Kg	☼	06/24/16 13:15	06/29/16 04:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	102		63 - 141	06/24/16 13:15	06/29/16 04:27	5

Client Sample ID: OM-SS-11-2

Lab Sample ID: 320-19659-25
Date Collected: 06/16/16 11:33
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 81.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000029		0.0000012	0.0000000 70	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1

Client Sample ID: OM-SS-11-2
Date Collected: 06/16/16 11:33
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-25
Matrix: Solid
Percent Solids: 81.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.000013		0.0000061	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8-PeCDF	0.0000035	J	0.0000061	0.00000070	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
2,3,4,7,8-PeCDF	0.0000034	J	0.0000061	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8-HxCDD	0.000018		0.0000061	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,6,7,8-HxCDD	0.00017		0.0000061	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8,9-HxCDD	0.000073		0.0000061	0.00000088	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8-HxCDF	0.000024		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,6,7,8-HxCDF	0.000025		0.0000061	0.0000015	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,7,8,9-HxCDF	ND		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
2,3,4,6,7,8-HxCDF	0.000019		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,6,7,8-HpCDD	0.0020	B G	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,6,7,8-HpCDF	0.0024	B G	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
1,2,3,4,7,8,9-HpCDF	0.000026	G	0.0000079	0.0000079	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
OCDD	0.018	E B	0.000012	0.0000088	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
OCDF	0.0012	B	0.000012	0.00000056	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total TCDD	0.000052	q	0.0000012	0.00000007 0	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total TCDF	0.000013	q	0.0000012	0.00000012	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total PeCDD	0.00015		0.0000061	0.00000057	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total PeCDF	0.000094		0.0000061	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HxCDD	0.0011		0.0000061	0.00000098	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HxCDF	0.0012		0.0000061	0.0000016	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HpCDD	0.0037	B G	0.0000062	0.0000062	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1
Total HpCDF	0.0043	B G	0.0000070	0.0000070	mg/Kg	☼	07/12/16 13:07	07/18/16 05:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,7,8-PeCDD	*99*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,7,8-PeCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,6,7,8-HxCDD	*98*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,7,8-HxCDF	*104*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 05:39*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000089	J	0.0000012	0.00000032	mg/Kg	☼	07/12/16 13:07	07/19/16 17:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/19/16 17:06*	*1*

Client Sample ID: OM-SS-10-2
Date Collected: 06/16/16 11:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-27
Matrix: Solid
Percent Solids: 81.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000054		0.0000012	0.00000026	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8-PeCDD	0.000026		0.0000061	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8-PeCDF	0.0000025	J q	0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
2,3,4,7,8-PeCDF	0.0000028	J	0.0000061	0.00000079	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8-HxCDD	0.000044		0.0000061	0.00000092	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,6,7,8-HxCDD	0.00024		0.0000061	0.00000089	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8,9-HxCDD	0.00011		0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8-HxCDF	0.000022		0.0000061	0.0000023	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,6,7,8-HxCDF	0.000018		0.0000061	0.0000021	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,7,8,9-HxCDF	ND		0.0000061	0.0000023	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
2,3,4,6,7,8-HxCDF	0.000016		0.0000061	0.0000022	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,6,7,8-HpCDD	0.0032	E B G	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,6,7,8-HpCDF	0.0022	B G	0.0000067	0.0000067	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
1,2,3,4,7,8,9-HpCDF	0.000027	G	0.0000086	0.0000086	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
OCDF	0.0012	B	0.000012	0.00000058	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total TCDD	0.00011		0.0000012	0.00000026	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total TCDF	0.000012		0.0000012	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total PeCDD	0.00023		0.0000061	0.00000041	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total PeCDF	0.000075	q	0.0000061	0.00000078	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HxCDD	0.0017		0.0000061	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HxCDF	0.0011	q	0.0000061	0.0000022	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HpCDD	0.0058	B G	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1
Total HpCDF	0.0041	B G	0.0000077	0.0000077	mg/Kg	☼	07/12/16 13:07	07/18/16 06:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*93*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,7,8-PeCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,7,8-PeCDF	*96*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,6,7,8-HxCDD	*103*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,7,8-HxCDF	*109*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*108*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 06:26*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.029	B	0.00024	0.000026	mg/Kg	☼	07/12/16 13:07	07/20/16 17:38	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-OCDD	*102*		*40 - 135*	*07/12/16 13:07*	*07/20/16 17:38*	*20*

Client Sample ID: OM-SS-10-2

Lab Sample ID: 320-19659-27
Date Collected: 06/16/16 11:47
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 81.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000066	J	0.0000012	0.00000020	mg/Kg	☼	07/12/16 13:07	07/19/16 19:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*105*		*40 - 135*	*07/12/16 13:07*	*07/19/16 19:37*	*1*

Client Sample ID: OM-SS-20

Lab Sample ID: 320-19659-29
Date Collected: 06/16/16 11:55
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 57.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000067		0.0000017	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8-PeCDD	0.000052		0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8-PeCDF	0.000012		0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
2,3,4,7,8-PeCDF	0.000014		0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8-HxCDD	0.00011		0.0000086	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,6,7,8-HxCDD	0.00063		0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8,9-HxCDD	0.00030		0.0000086	0.0000032	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8-HxCDF	0.00013	G	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,6,7,8-HxCDF	0.00014	G	0.000017	0.000017	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,7,8,9-HxCDF	ND	G	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
2,3,4,6,7,8-HxCDF	0.00015	G	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,6,7,8-HpCDD	0.0042	E B G	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,6,7,8-HpCDF	0.019	E B G	0.000059	0.000059	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
1,2,3,4,7,8,9-HpCDF	0.000079	G	0.000075	0.000075	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
OCDD	0.014	E B	0.000017	0.0000071	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
OCDF	0.0068	B	0.000017	0.0000029	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total TCDD	0.00014		0.0000017	0.00000015	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total TCDF	0.000052		0.0000017	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total PeCDD	0.00060		0.0000086	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total PeCDF	0.00057		0.0000086	0.0000014	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HxCDD	0.0042		0.0000086	0.0000036	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HxCDF	0.0074	G	0.000018	0.000018	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HpCDD	0.0072	B G	0.000019	0.000019	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1
Total HpCDF	0.030	B G	0.000067	0.000067	mg/Kg	☼	07/12/16 13:07	07/18/16 07:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,7,8-PeCDD	*88*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*94*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*85*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*
13C-OCDD	*94*		*40 - 135*	*07/12/16 13:07*	*07/18/16 07:12*	*1*

Client Sample ID: OM-SS-20

Lab Sample ID: 320-19659-29
Date Collected: 06/16/16 11:55
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 57.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000015	J	0.0000017	0.00000080	mg/Kg	☼	07/12/16 13:07	07/19/16 17:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*93*		*40 - 135*	*07/12/16 13:07*	*07/19/16 17:44*	*1*

Client Sample ID: OM-SS-09-2

Lab Sample ID: 320-19659-30
Date Collected: 06/16/16 12:05
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 86.2

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	74		5.8	2.9	mg/Kg	☼	06/24/16 13:15	06/29/16 04:56	5
Motor Oil Range Organics (C24-C40)	520		29	22	mg/Kg	☼	06/24/16 13:15	06/29/16 04:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*97*		*63 - 141*	*06/24/16 13:15*	*06/29/16 04:56*	*5*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000021		0.0000011	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8-PeCDD	0.000012		0.0000057	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8-PeCDF	0.0000045	J	0.0000057	0.00000073	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
2,3,4,7,8-PeCDF	0.0000035	J	0.0000057	0.00000075	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8-HxCDD	0.000025		0.0000057	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,6,7,8-HxCDD	0.00023		0.0000057	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8,9-HxCDD	0.000073		0.0000057	0.00000087	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8-HxCDF	0.000024		0.0000057	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,6,7,8-HxCDF	0.000019		0.0000057	0.0000025	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,7,8,9-HxCDF	ND		0.0000057	0.0000027	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
2,3,4,6,7,8-HxCDF	0.000016		0.0000057	0.0000026	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,6,7,8-HpCDF	0.0018	G B	0.0000089	0.0000089	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
1,2,3,4,7,8,9-HpCDF	0.000027	G	0.000011	0.000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
OCDF	0.0010	B	0.000011	0.00000047	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total TCDD	0.000087		0.0000011	0.00000032	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total TCDF	0.000014	q	0.0000011	0.00000013	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total PeCDD	0.00013		0.0000057	0.00000038	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total PeCDF	0.000086		0.0000057	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HxCDD	0.0013		0.0000057	0.00000096	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HxCDF	0.00099	q	0.0000057	0.0000026	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1
Total HpCDF	0.0035	G B	0.000010	0.000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:01	1

Client Sample ID: OM-SS-09-2

Lab Sample ID: 320-19659-30
Date Collected: 06/16/16 12:05
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 86.2

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	88		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-2,3,7,8-TCDF	83		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,7,8-PeCDD	97		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,7,8-PeCDF	88		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,6,7,8-HxCDD	95		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,4,7,8-HxCDF	95		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	07/12/16 13:07	07/18/16 21:01	1
13C-OCDD	110		40 - 135	07/12/16 13:07	07/18/16 21:01	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0038	B	0.000057	0.000038	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10
OCDD	0.033	B	0.00011	0.000021	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10
Total HpCDD	0.0071	B	0.000057	0.000038	mg/Kg	☼	07/12/16 13:07	07/21/16 20:07	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	83		40 - 135	07/12/16 13:07	07/21/16 20:07	10
13C-OCDD	87		40 - 135	07/12/16 13:07	07/21/16 20:07	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000086	J	0.0000011	0.00000026	mg/Kg	☼	07/12/16 13:07	07/21/16 12:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	107		40 - 135	07/12/16 13:07	07/21/16 12:58	1

Client Sample ID: OM-SS-08-2

Lab Sample ID: 320-19659-32
Date Collected: 06/16/16 12:21
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 77.6

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	130		13	6.5	mg/Kg	☼	06/24/16 13:15	07/01/16 11:21	10
Motor Oil Range Organics (C24-C40)	460		65	49	mg/Kg	☼	06/24/16 13:15	07/01/16 11:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	105		63 - 141	06/24/16 13:15	07/01/16 11:21	10

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000037		0.0000013	0.00000029	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8-PeCDD	0.000019		0.0000064	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8-PeCDF	0.0000084		0.0000064	0.00000065	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
2,3,4,7,8-PeCDF	0.0000074		0.0000064	0.00000066	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8-HxCDD	0.000030		0.0000064	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,6,7,8-HxCDD	0.00027		0.0000064	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8,9-HxCDD	0.00010		0.0000064	0.00000093	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8-HxCDF	0.000038		0.0000064	0.0000036	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1

Client Sample ID: OM-SS-08-2
Date Collected: 06/16/16 12:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-32
Matrix: Solid
Percent Solids: 77.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	0.000029		0.0000064	0.0000033	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,7,8,9-HxCDF	ND		0.0000064	0.0000037	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
2,3,4,6,7,8-HxCDF	0.000025		0.0000064	0.0000035	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
1,2,3,4,7,8,9-HpCDF	0.000033	G	0.000015	0.000015	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
OCDF	0.0015	B	0.000013	0.00000080	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total TCDD	0.000097	q	0.0000013	0.00000029	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total TCDF	0.000015		0.0000013	0.00000012	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total PeCDD	0.00020		0.0000064	0.00000043	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total PeCDF	0.00013	q	0.0000064	0.00000066	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total HxCDD	0.0016		0.0000064	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1
Total HxCDF	0.0017		0.0000064	0.0000035	mg/Kg	☼	07/12/16 13:07	07/18/16 21:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*89*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,7,8-PeCDD	*101*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*100*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*
13C-OCDD	*112*		*40 - 135*	*07/12/16 13:07*	*07/18/16 21:48*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0046	B	0.000064	0.000039	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
1,2,3,4,6,7,8-HpCDF	0.0037	B	0.000064	0.000020	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
OCDD	0.043	B	0.00013	0.000023	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
Total HpCDD	0.0093	B	0.000064	0.000039	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10
Total HpCDF	0.0066	B	0.000064	0.000022	mg/Kg	☼	07/12/16 13:07	07/21/16 20:53	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*
13C-1,2,3,4,6,7,8-HpCDF	*92*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*
13C-OCDD	*82*		*40 - 135*	*07/12/16 13:07*	*07/21/16 20:53*	*10*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.0000016		0.0000013	0.00000031	mg/Kg	☼	07/12/16 13:07	07/21/16 13:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*108*		*40 - 135*	*07/12/16 13:07*	*07/21/16 13:36*	*1*

Client Sample ID: OM-SS-12-2
Date Collected: 06/16/16 12:38
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-34
Matrix: Solid
Percent Solids: 75.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000013		0.0000013	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,7,8-TCDF	0.00000036	J	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8-PeCDD	0.0000056	J	0.0000066	0.00000028	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8-PeCDF	0.0000010	J	0.0000066	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,4,7,8-PeCDF	0.00000082	J	0.0000066	0.00000024	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8-HxCDD	0.0000071		0.0000066	0.00000070	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,6,7,8-HxCDD	0.000051		0.0000066	0.00000068	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8,9-HxCDD	0.000026		0.0000066	0.00000059	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8-HxCDF	0.0000070		0.0000066	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,6,7,8-HxCDF	0.0000064	J	0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,7,8,9-HxCDF	ND		0.0000066	0.0000012	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
2,3,4,6,7,8-HxCDF	0.0000061	J	0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,6,7,8-HpCDD	0.00069	B	0.0000066	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000066	0.0000044	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
1,2,3,4,7,8,9-HpCDF	0.0000065	J	0.0000066	0.0000056	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
OCDD	0.0064	E B	0.000013	0.0000042	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
OCDF	0.00045	B	0.000013	0.00000033	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total TCDD	0.000022	q	0.0000013	0.00000085	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total TCDF	0.0000040	q	0.0000013	0.00000010	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total PeCDD	0.000063		0.0000066	0.00000028	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total PeCDF	0.000026		0.0000066	0.00000023	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HxCDD	0.00043		0.0000066	0.00000066	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HxCDF	0.00038		0.0000066	0.0000011	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HpCDD	0.0014	B	0.0000066	0.0000038	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1
Total HpCDF	0.0018	B	0.0000066	0.0000050	mg/Kg	☼	07/12/16 13:07	07/18/16 22:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*60*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-2,3,7,8-TCDF	*57*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,7,8-PeCDD	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,7,8-PeCDF	*59*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,6,7,8-HxCDD	*66*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,7,8-HxCDF	*64*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*69*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*62*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*
13C-OCDD	*71*		*40 - 135*	*07/12/16 13:07*	*07/18/16 22:34*	*1*

Client Sample ID: OM-SS-21
Date Collected: 06/16/16 12:45
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-36
Matrix: Solid
Percent Solids: 76.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000014		0.0000013	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,7,8-TCDF	0.00000051	J	0.0000013	0.00000062	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8-PeCDD	0.0000062	J	0.0000065	0.00000021	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8-PeCDF	0.0000012	J	0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,4,7,8-PeCDF	0.00000088	J	0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8-HxCDD	0.0000074		0.0000065	0.00000071	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,6,7,8-HxCDD	0.000060		0.0000065	0.00000069	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8,9-HxCDD	0.000030		0.0000065	0.00000060	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8-HxCDF	0.0000079		0.0000065	0.00000099	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,6,7,8-HxCDF	0.0000075		0.0000065	0.00000091	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,7,8,9-HxCDF	ND		0.0000065	0.0000010	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
2,3,4,6,7,8-HxCDF	0.0000068		0.0000065	0.00000097	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,6,7,8-HpCDD	0.00074	B	0.0000065	0.0000040	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,6,7,8-HpCDF	0.0011	B	0.0000065	0.0000045	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
1,2,3,4,7,8,9-HpCDF	0.0000065		0.0000065	0.0000057	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
OCDD	0.0065	E B	0.000013	0.0000044	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
OCDF	0.00045	B	0.000013	0.00000029	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total TCDD	0.000025		0.0000013	0.00000074	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total TCDF	0.0000031	q	0.0000013	0.00000062	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total PeCDD	0.000068		0.0000065	0.00000021	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total PeCDF	0.000030		0.0000065	0.00000025	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HxCDD	0.00047		0.0000065	0.00000067	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HxCDF	0.00044		0.0000065	0.00000097	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HpCDD	0.0015	B	0.0000065	0.0000040	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1
Total HpCDF	0.0018	B	0.0000065	0.0000051	mg/Kg	☼	07/12/16 13:07	07/18/16 23:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*92*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,7,8-PeCDD	*97*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,6,7,8-HxCDD	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,7,8-HxCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*106*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*
13C-OCDD	*107*		*40 - 135*	*07/12/16 13:07*	*07/18/16 23:20*	*1*

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-W
Date Collected: 06/16/16 13:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-37
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	48	J B	52	17	ug/L		06/23/16 11:34	06/27/16 18:13	1
Motor Oil Range Organics (C24-C40)	280	J B	520	170	ug/L		06/23/16 11:34	06/27/16 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*81*		*56 - 145*	*06/23/16 11:34*	*06/27/16 18:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	ND	H	52	17	ug/L		07/05/16 10:54	07/07/16 12:40	1
Motor Oil Range Organics (C24-C40)	ND	H	520	170	ug/L		07/05/16 10:54	07/07/16 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*56 - 145*	*07/05/16 10:54*	*07/07/16 12:40*	*1*

Surrogate Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Silica Gel Cleanup**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH1 (63-141)
320-19659-1	OM-SS-01-2	110
320-19659-1 MS	OM-SS-01-2	114
320-19659-1 MSD	OM-SS-01-2	114
320-19659-3	OM-SS-02-2	78
320-19659-5	OM-SS-18	84
320-19659-6	OM-SS-06-2	98
320-19659-8	OM-SS-03-2	79
320-19659-10	OM-SS-05-2	92
320-19659-12	OM-SS-07-2	93
320-19659-14	OM-SS-04-2	111
320-19659-22	OM-SS-16	120
320-19659-23	OM-SS-19	131
320-19659-24	OM-SS-17	102
320-19659-30	OM-SS-09-2	97
320-19659-32	OM-SS-08-2	105
LCS 320-115239/2-A	Lab Control Sample	88
LCS 320-116148/2-A	Lab Control Sample	97
MB 320-115239/1-A	Method Blank	85
MB 320-116148/1-A	Method Blank	90

Surrogate Legend

OTPH = o-Terphenyl (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water — **Prep Type: Silica Gel Cleanup**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTPH1 (56-145)
320-19659-37	OM-W	81
320-19659-37 - RE	OM-W	66
LCS 320-115045/2-A	Lab Control Sample	91
LCS 320-116520/2-A	Lab Control Sample	96
LCSD 320-115045/3-A	Lab Control Sample Dup	84
LCSD 320-116520/3-A	Lab Control Sample Dup	95
MB 320-115045/1-A	Method Blank	76
MB 320-116520/1-A	Method Blank	63

Surrogate Legend

OTPH = o-Terphenyl (Surr)

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
320-19659-1	OM-SS-01-2	85	83	91	85	92	88	97	87
320-19659-1 - DL	OM-SS-01-2								
320-19659-3	OM-SS-02-2	81	78	85	80	97	99	87	74
320-19659-6	OM-SS-06-2	83	79	86	80	91	91	94	83
320-19659-8	OM-SS-03-2	85	79	87	82	92	83	88	78
320-19659-10	OM-SS-05-2	87	87	90	87	90	90	105	97
320-19659-12	OM-SS-07-2	80	77	79	77	85	78	91	83
320-19659-14	OM-SS-04-2	82	80	84	81	87	86	92	83
320-19659-16	OM-SS-15-2	84	82	87	83	86	85	95	85
320-19659-19	OM-SS-14-2	76	77	85	77	95	118	84	64
320-19659-19 - RA	OM-SS-14-2		85						
320-19659-20	OM-SS-13-2	87	84	96	89	96	116	95	60
320-19659-25	OM-SS-11-2	91	87	99	92	98	104	101	88
320-19659-25 - RA	OM-SS-11-2		95						
320-19659-27	OM-SS-10-2	93	92	101	96	103	109	108	95
320-19659-27 - DL	OM-SS-10-2								
320-19659-27 - RA	OM-SS-10-2		105						
320-19659-29	OM-SS-20	86	84	88	84	90	94	97	85
320-19659-29 - RA	OM-SS-20		93						
320-19659-30	OM-SS-09-2	88	83	97	88	95	95		89
320-19659-30 - RA	OM-SS-09-2		107						
320-19659-30 - DL	OM-SS-09-2							83	
320-19659-32	OM-SS-08-2	89	86	101	91	97	100		
320-19659-32 - RA	OM-SS-08-2		108						
320-19659-32 - DL	OM-SS-08-2							84	92
320-19659-34	OM-SS-12-2	60	57	64	59	66	64	69	62
320-19659-36	OM-SS-21	92	86	97	91	95	95	106	95
LCS 320-117526/2-A	Lab Control Sample	90	85	91	87	99	92	101	94
LCSD 320-117526/3-A	Lab Control Sample Dup	83	79	82	80	90	82	88	82
MB 320-117526/1-A	Method Blank	81	78	79	77	88	80	85	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
320-19659-1	OM-SS-01-2	93							
320-19659-1 - DL	OM-SS-01-2	97							
320-19659-3	OM-SS-02-2	84							
320-19659-6	OM-SS-06-2	96							
320-19659-8	OM-SS-03-2	87							
320-19659-10	OM-SS-05-2	109							
320-19659-12	OM-SS-07-2	91							
320-19659-14	OM-SS-04-2	93							
320-19659-16	OM-SS-15-2	99							
320-19659-19	OM-SS-14-2	86							
320-19659-19 - RA	OM-SS-14-2								
320-19659-20	OM-SS-13-2	100							
320-19659-25	OM-SS-11-2	107							
320-19659-25 - RA	OM-SS-11-2								
320-19659-27	OM-SS-10-2	107							
320-19659-27 - DL	OM-SS-10-2	102							

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	OCDD (40-135)						
320-19659-27 - RA	OM-SS-10-2							
320-19659-29	OM-SS-20	94						
320-19659-29 - RA	OM-SS-20							
320-19659-30	OM-SS-09-2	110						
320-19659-30 - RA	OM-SS-09-2							
320-19659-30 - DL	OM-SS-09-2	87						
320-19659-32	OM-SS-08-2	112						
320-19659-32 - RA	OM-SS-08-2							
320-19659-32 - DL	OM-SS-08-2	82						
320-19659-34	OM-SS-12-2	71						
320-19659-36	OM-SS-21	107						
LCS 320-117526/2-A	Lab Control Sample	85						
LCSD 320-117526/3-A	Lab Control Sample Dup	74						
MB 320-117526/1-A	Method Blank	69						

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 320-115045/1-A
Matrix: Water
Analysis Batch: 115426

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 115045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	125		50	16	ug/L		06/23/16 11:34	06/27/16 18:42	1
Motor Oil Range Organics (C24-C40)	703		500	170	ug/L		06/23/16 11:34	06/27/16 18:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*56 - 145*	*06/23/16 11:34*	*06/27/16 18:42*	*1*

Lab Sample ID: LCS 320-115045/2-A
Matrix: Water
Analysis Batch: 115426

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 115045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C12-C24]	300	209		ug/L		70	53 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*91*		*56 - 145*

Lab Sample ID: LCSD 320-115045/3-A
Matrix: Water
Analysis Batch: 115426

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 115045

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C12-C24]	300	233		ug/L		78	53 - 123	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*84*		*56 - 145*

Lab Sample ID: MB 320-115239/1-A
Matrix: Solid
Analysis Batch: 115763

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 115239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	ND		1.0	0.50	mg/Kg		06/24/16 13:15	06/28/16 22:45	1
Motor Oil Range Organics (C24-C40)	ND		5.0	3.8	mg/Kg		06/24/16 13:15	06/28/16 22:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*85*		*63 - 141*	*06/24/16 13:15*	*06/28/16 22:45*	*1*

Lab Sample ID: LCS 320-115239/2-A
Matrix: Solid
Analysis Batch: 115763

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 115239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C12-C24]	10.0	8.90		mg/Kg		89	67 - 113

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 320-115239/2-A
Matrix: Solid
Analysis Batch: 115763

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 115239

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*88*		*63 - 141*

Lab Sample ID: MB 320-116148/1-A
Matrix: Solid
Analysis Batch: 116636

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 116148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	ND		1.0	0.50	mg/Kg		06/30/16 11:58	07/06/16 12:50	1
Motor Oil Range Organics (C24-C40)	3.86	J	5.0	3.8	mg/Kg		06/30/16 11:58	07/06/16 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*63 - 141*	*06/30/16 11:58*	*07/06/16 12:50*	*1*

Lab Sample ID: LCS 320-116148/2-A
Matrix: Solid
Analysis Batch: 116636

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 116148

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C12-C24]			10.0	8.22		mg/Kg		82	67 - 113		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*97*		*63 - 141*

Lab Sample ID: 320-19659-1 MS
Matrix: Solid
Analysis Batch: 116636

Client Sample ID: OM-SS-01-2
Prep Type: Silica Gel Cleanup
Prep Batch: 116148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C12-C24]	100		12.0	66.8	4	mg/Kg	☼	-279	67 - 113		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*114*		*63 - 141*

Lab Sample ID: 320-19659-1 MSD
Matrix: Solid
Analysis Batch: 116636

Client Sample ID: OM-SS-01-2
Prep Type: Silica Gel Cleanup
Prep Batch: 116148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C12-C24]	100		12.0	61.6	4	mg/Kg	☼	-323	67 - 113	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*114*		*63 - 141*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 320-116520/1-A
Matrix: Water
Analysis Batch: 116636

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 116520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C12-C24]	ND		50	16	ug/L		07/05/16 10:54	07/07/16 08:49	1
Motor Oil Range Organics (C24-C40)	ND		500	170	ug/L		07/05/16 10:54	07/07/16 08:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*63*		*56 - 145*	*07/05/16 10:54*	*07/07/16 08:49*	*1*

Lab Sample ID: LCS 320-116520/2-A
Matrix: Water
Analysis Batch: 116636

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 116520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C12-C24]			300	238		ug/L		79	53 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*96*		*56 - 145*

Lab Sample ID: LCSD 320-116520/3-A
Matrix: Water
Analysis Batch: 116636

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 116520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C12-C24]			300	236		ug/L		79	53 - 123	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*95*		*56 - 145*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-117526/1-A
Matrix: Solid
Analysis Batch: 118160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117526

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000010	0.00000026	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
2,3,7,8-TCDF	ND		0.0000010	0.00000017	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,7,8-PeCDD	ND		0.0000050	0.00000031	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,7,8-PeCDF	ND		0.0000050	0.00000028	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
2,3,4,7,8-PeCDF	ND		0.0000050	0.00000028	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,4,7,8-HxCDD	ND		0.0000050	0.00000027	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,6,7,8-HxCDD	ND		0.0000050	0.00000026	mg/Kg		07/12/16 13:07	07/17/16 14:32	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-117526/1-A
Matrix: Solid
Analysis Batch: 118160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117526

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDD	ND		0.0000050	0.0000000 23	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,4,7,8-HxCDF	ND		0.0000050	0.0000000 21	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,6,7,8-HxCDF	ND		0.0000050	0.0000000 19	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,7,8,9-HxCDF	ND		0.0000050	0.0000000 21	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
2,3,4,6,7,8-HxCDF	ND		0.0000050	0.0000000 20	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,4,6,7,8-HpCDD	0.000000193	J	0.0000050	0.0000000 28	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,4,6,7,8-HpCDF	0.000000135	J	0.0000050	0.0000000 32	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000050	0.0000000 41	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
OCDD	0.00000810	J	0.000010	0.0000000 48	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
OCDF	0.000000614	J	0.000010	0.0000000 38	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total TCDD	ND		0.0000010	0.0000000 26	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total TCDF	ND		0.0000010	0.0000000 17	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total PeCDD	ND		0.0000050	0.0000000 31	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total PeCDF	ND		0.0000050	0.0000000 28	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total HxCDD	ND		0.0000050	0.0000000 27	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total HxCDF	ND		0.0000050	0.0000000 21	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total HpCDD	0.000000374	J	0.0000050	0.0000000 28	mg/Kg		07/12/16 13:07	07/17/16 14:32	1
Total HpCDF	0.000000135	J	0.0000050	0.0000000 36	mg/Kg		07/12/16 13:07	07/17/16 14:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-2,3,7,8-TCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,7,8-PeCDD	*79*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*
13C-OCDD	*69*		*40 - 135*	*07/12/16 13:07*	*07/17/16 14:32*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-117526/2-A
Matrix: Solid
Analysis Batch: 118160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117526

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			0.0000200	0.0000207		mg/Kg		103	77 - 130		
2,3,7,8-TCDF			0.0000200	0.0000213		mg/Kg		106	79 - 137		
1,2,3,7,8-PeCDD			0.000100	0.000105		mg/Kg		105	79 - 134		
1,2,3,7,8-PeCDF			0.000100	0.000110		mg/Kg		110	81 - 134		
2,3,4,7,8-PeCDF			0.000100	0.000108		mg/Kg		108	76 - 132		
1,2,3,4,7,8-HxCDD			0.000100	0.0000955		mg/Kg		95	65 - 144		
1,2,3,6,7,8-HxCDD			0.000100	0.000108		mg/Kg		108	73 - 147		
1,2,3,7,8,9-HxCDD			0.000100	0.0000995		mg/Kg		100	80 - 143		
1,2,3,4,7,8-HxCDF			0.000100	0.000104		mg/Kg		104	72 - 140		
1,2,3,6,7,8-HxCDF			0.000100	0.000111		mg/Kg		111	63 - 152		
1,2,3,7,8,9-HxCDF			0.000100	0.000104		mg/Kg		104	72 - 152		
2,3,4,6,7,8-HxCDF			0.000100	0.000110		mg/Kg		110	72 - 151		
1,2,3,4,6,7,8-HpCDD			0.000100	0.000106		mg/Kg		106	86 - 134		
1,2,3,4,6,7,8-HpCDF			0.000100	0.000108		mg/Kg		108	81 - 137		
1,2,3,4,7,8,9-HpCDF			0.000100	0.000110		mg/Kg		110	79 - 139		
OCDD			0.000200	0.000219		mg/Kg		109	80 - 137		
OCDF			0.000200	0.000217		mg/Kg		108	75 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*90*		*40 - 135*
13C-2,3,7,8-TCDF	*85*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*91*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*99*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*92*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*94*		*40 - 135*
13C-OCDD	*85*		*40 - 135*

Lab Sample ID: LCSD 320-117526/3-A
Matrix: Solid
Analysis Batch: 118160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117526

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			0.0000200	0.0000205		mg/Kg		102	77 - 130	1	20
2,3,7,8-TCDF			0.0000200	0.0000207		mg/Kg		104	79 - 137	3	20
1,2,3,7,8-PeCDD			0.000100	0.000106		mg/Kg		106	79 - 134	1	20
1,2,3,7,8-PeCDF			0.000100	0.000109		mg/Kg		109	81 - 134	1	20
2,3,4,7,8-PeCDF			0.000100	0.000109		mg/Kg		109	76 - 132	0	20
1,2,3,4,7,8-HxCDD			0.000100	0.0000919		mg/Kg		92	65 - 144	4	20
1,2,3,6,7,8-HxCDD			0.000100	0.000107		mg/Kg		107	73 - 147	1	20
1,2,3,7,8,9-HxCDD			0.000100	0.000100		mg/Kg		100	80 - 143	1	20
1,2,3,4,7,8-HxCDF			0.000100	0.000103		mg/Kg		103	72 - 140	0	20
1,2,3,6,7,8-HxCDF			0.000100	0.000112		mg/Kg		112	63 - 152	1	20
1,2,3,7,8,9-HxCDF			0.000100	0.000103		mg/Kg		103	72 - 152	1	20
2,3,4,6,7,8-HxCDF			0.000100	0.000110		mg/Kg		110	72 - 151	0	20
1,2,3,4,6,7,8-HpCDD			0.000100	0.000107		mg/Kg		107	86 - 134	1	20
1,2,3,4,6,7,8-HpCDF			0.000100	0.000108		mg/Kg		108	81 - 137	0	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-117526/3-A
Matrix: Solid
Analysis Batch: 118160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117526

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,4,7,8,9-HpCDF			0.000100	0.000110		mg/Kg		110	79 - 139	1	20
OCDD			0.000200	0.000219		mg/Kg		110	80 - 137	0	20
OCDF			0.000200	0.000218		mg/Kg		109	75 - 141	0	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*83*		*40 - 135*
13C-2,3,7,8-TCDF	*79*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*82*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*82*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*82*		*40 - 135*
13C-OCDD	*74*		*40 - 135*

GC Semi VOA

Prep Batch: 115045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-37	OM-W	Silica Gel Cleanup	Water	3510C SGC	
MB 320-115045/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 320-115045/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 320-115045/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

Prep Batch: 115239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-3	OM-SS-02-2	Silica Gel Cleanup	Solid	3550B	
320-19659-5	OM-SS-18	Silica Gel Cleanup	Solid	3550B	
320-19659-8	OM-SS-03-2	Silica Gel Cleanup	Solid	3550B	
320-19659-10	OM-SS-05-2	Silica Gel Cleanup	Solid	3550B	
320-19659-12	OM-SS-07-2	Silica Gel Cleanup	Solid	3550B	
320-19659-14	OM-SS-04-2	Silica Gel Cleanup	Solid	3550B	
320-19659-23	OM-SS-19	Silica Gel Cleanup	Solid	3550B	
320-19659-24	OM-SS-17	Silica Gel Cleanup	Solid	3550B	
320-19659-30	OM-SS-09-2	Silica Gel Cleanup	Solid	3550B	
320-19659-32	OM-SS-08-2	Silica Gel Cleanup	Solid	3550B	
MB 320-115239/1-A	Method Blank	Silica Gel Cleanup	Solid	3550B	
LCS 320-115239/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550B	

Analysis Batch: 115426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-37	OM-W	Silica Gel Cleanup	Water	8015B	115045
MB 320-115045/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	115045
LCS 320-115045/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	115045
LCSD 320-115045/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	115045

Analysis Batch: 115763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-3	OM-SS-02-2	Silica Gel Cleanup	Solid	8015B	115239
320-19659-5	OM-SS-18	Silica Gel Cleanup	Solid	8015B	115239
320-19659-8	OM-SS-03-2	Silica Gel Cleanup	Solid	8015B	115239
320-19659-10	OM-SS-05-2	Silica Gel Cleanup	Solid	8015B	115239
320-19659-12	OM-SS-07-2	Silica Gel Cleanup	Solid	8015B	115239
320-19659-24	OM-SS-17	Silica Gel Cleanup	Solid	8015B	115239
320-19659-30	OM-SS-09-2	Silica Gel Cleanup	Solid	8015B	115239
MB 320-115239/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	115239
LCS 320-115239/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	115239

Prep Batch: 116148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1	OM-SS-01-2	Silica Gel Cleanup	Solid	3550B	
320-19659-6	OM-SS-06-2	Silica Gel Cleanup	Solid	3550B	
320-19659-22	OM-SS-16	Silica Gel Cleanup	Solid	3550B	
MB 320-116148/1-A	Method Blank	Silica Gel Cleanup	Solid	3550B	
LCS 320-116148/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550B	
320-19659-1 MS	OM-SS-01-2	Silica Gel Cleanup	Solid	3550B	
320-19659-1 MSD	OM-SS-01-2	Silica Gel Cleanup	Solid	3550B	

GC Semi VOA (Continued)

Analysis Batch: 116479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-14	OM-SS-04-2	Silica Gel Cleanup	Solid	8015B	115239
320-19659-23	OM-SS-19	Silica Gel Cleanup	Solid	8015B	115239
320-19659-32	OM-SS-08-2	Silica Gel Cleanup	Solid	8015B	115239

Prep Batch: 116520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-37 - RE	OM-W	Silica Gel Cleanup	Water	3510C SGC	
MB 320-116520/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 320-116520/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 320-116520/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 116636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1	OM-SS-01-2	Silica Gel Cleanup	Solid	8015B	116148
320-19659-6	OM-SS-06-2	Silica Gel Cleanup	Solid	8015B	116148
320-19659-22	OM-SS-16	Silica Gel Cleanup	Solid	8015B	116148
320-19659-37 - RE	OM-W	Silica Gel Cleanup	Water	8015B	116520
MB 320-116148/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	116148
MB 320-116520/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	116520
LCS 320-116148/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	116148
LCS 320-116520/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	116520
LCSD 320-116520/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	116520
320-19659-1 MS	OM-SS-01-2	Silica Gel Cleanup	Solid	8015B	116148
320-19659-1 MSD	OM-SS-01-2	Silica Gel Cleanup	Solid	8015B	116148

Specialty Organics

Prep Batch: 117526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1	OM-SS-01-2	Total/NA	Solid	8290	
320-19659-1 - DL	OM-SS-01-2	Total/NA	Solid	8290	
320-19659-3	OM-SS-02-2	Total/NA	Solid	8290	
320-19659-6	OM-SS-06-2	Total/NA	Solid	8290	
320-19659-8	OM-SS-03-2	Total/NA	Solid	8290	
320-19659-10	OM-SS-05-2	Total/NA	Solid	8290	
320-19659-12	OM-SS-07-2	Total/NA	Solid	8290	
320-19659-14	OM-SS-04-2	Total/NA	Solid	8290	
320-19659-16	OM-SS-15-2	Total/NA	Solid	8290	
320-19659-19	OM-SS-14-2	Total/NA	Solid	8290	
320-19659-19 - RA	OM-SS-14-2	Total/NA	Solid	8290	
320-19659-20	OM-SS-13-2	Total/NA	Solid	8290	
320-19659-25	OM-SS-11-2	Total/NA	Solid	8290	
320-19659-25 - RA	OM-SS-11-2	Total/NA	Solid	8290	
320-19659-27 - DL	OM-SS-10-2	Total/NA	Solid	8290	
320-19659-27	OM-SS-10-2	Total/NA	Solid	8290	
320-19659-27 - RA	OM-SS-10-2	Total/NA	Solid	8290	
320-19659-29	OM-SS-20	Total/NA	Solid	8290	
320-19659-29 - RA	OM-SS-20	Total/NA	Solid	8290	
320-19659-30	OM-SS-09-2	Total/NA	Solid	8290	
320-19659-30 - DL	OM-SS-09-2	Total/NA	Solid	8290	

Specialty Organics (Continued)

Prep Batch: 117526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-30 - RA	OM-SS-09-2	Total/NA	Solid	8290	
320-19659-32	OM-SS-08-2	Total/NA	Solid	8290	
320-19659-32 - DL	OM-SS-08-2	Total/NA	Solid	8290	
320-19659-32 - RA	OM-SS-08-2	Total/NA	Solid	8290	
320-19659-34	OM-SS-12-2	Total/NA	Solid	8290	
320-19659-36	OM-SS-21	Total/NA	Solid	8290	
MB 320-117526/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-117526/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-117526/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 118160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1	OM-SS-01-2	Total/NA	Solid	8290A	117526
320-19659-3	OM-SS-02-2	Total/NA	Solid	8290A	117526
320-19659-6	OM-SS-06-2	Total/NA	Solid	8290A	117526
MB 320-117526/1-A	Method Blank	Total/NA	Solid	8290A	117526
LCS 320-117526/2-A	Lab Control Sample	Total/NA	Solid	8290A	117526
LCSD 320-117526/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	117526

Analysis Batch: 118162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-10	OM-SS-05-2	Total/NA	Solid	8290A	117526
320-19659-12	OM-SS-07-2	Total/NA	Solid	8290A	117526
320-19659-14	OM-SS-04-2	Total/NA	Solid	8290A	117526
320-19659-16	OM-SS-15-2	Total/NA	Solid	8290A	117526
320-19659-19	OM-SS-14-2	Total/NA	Solid	8290A	117526
320-19659-20	OM-SS-13-2	Total/NA	Solid	8290A	117526
320-19659-25	OM-SS-11-2	Total/NA	Solid	8290A	117526
320-19659-27	OM-SS-10-2	Total/NA	Solid	8290A	117526
320-19659-29	OM-SS-20	Total/NA	Solid	8290A	117526

Analysis Batch: 118585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-30	OM-SS-09-2	Total/NA	Solid	8290A	117526
320-19659-32	OM-SS-08-2	Total/NA	Solid	8290A	117526
320-19659-34	OM-SS-12-2	Total/NA	Solid	8290A	117526
320-19659-36	OM-SS-21	Total/NA	Solid	8290A	117526

Analysis Batch: 118598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1 - DL	OM-SS-01-2	Total/NA	Solid	8290A	117526
320-19659-8	OM-SS-03-2	Total/NA	Solid	8290A	117526
320-19659-27 - DL	OM-SS-10-2	Total/NA	Solid	8290A	117526

Analysis Batch: 118613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-19 - RA	OM-SS-14-2	Total/NA	Solid	8290A	117526
320-19659-25 - RA	OM-SS-11-2	Total/NA	Solid	8290A	117526
320-19659-27 - RA	OM-SS-10-2	Total/NA	Solid	8290A	117526
320-19659-29 - RA	OM-SS-20	Total/NA	Solid	8290A	117526

Specialty Organics (Continued)

Analysis Batch: 118975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-30 - RA	OM-SS-09-2	Total/NA	Solid	8290A	117526
320-19659-32 - RA	OM-SS-08-2	Total/NA	Solid	8290A	117526

Analysis Batch: 119069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-30 - DL	OM-SS-09-2	Total/NA	Solid	8290A	117526
320-19659-32 - DL	OM-SS-08-2	Total/NA	Solid	8290A	117526

General Chemistry

Analysis Batch: 115952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-1	OM-SS-01-2	Total/NA	Solid	D 2216	
320-19659-2	OM-SS-01-5	Total/NA	Solid	D 2216	
320-19659-3	OM-SS-02-2	Total/NA	Solid	D 2216	
320-19659-4	OM-SS-02-5	Total/NA	Solid	D 2216	
320-19659-5	OM-SS-18	Total/NA	Solid	D 2216	
320-19659-6	OM-SS-06-2	Total/NA	Solid	D 2216	
320-19659-7	OM-SS-06-5	Total/NA	Solid	D 2216	
320-19659-8	OM-SS-03-2	Total/NA	Solid	D 2216	
320-19659-9	OM-SS-03-5	Total/NA	Solid	D 2216	
320-19659-10	OM-SS-05-2	Total/NA	Solid	D 2216	
320-19659-11	OM-SS-05-5	Total/NA	Solid	D 2216	
320-19659-12	OM-SS-07-2	Total/NA	Solid	D 2216	
320-19659-13	OM-SS-07-5	Total/NA	Solid	D 2216	
320-19659-14	OM-SS-04-2	Total/NA	Solid	D 2216	
320-19659-15	OM-SS-04-5	Total/NA	Solid	D 2216	
320-19659-16	OM-SS-15-2	Total/NA	Solid	D 2216	
320-19659-19	OM-SS-14-2	Total/NA	Solid	D 2216	
320-19659-20	OM-SS-13-2	Total/NA	Solid	D 2216	
320-19659-22	OM-SS-16	Total/NA	Solid	D 2216	
320-19659-1 DU	OM-SS-01-2	Total/NA	Solid	D 2216	

Analysis Batch: 115962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-23	OM-SS-19	Total/NA	Solid	D 2216	
320-19659-24	OM-SS-17	Total/NA	Solid	D 2216	
320-19659-25	OM-SS-11-2	Total/NA	Solid	D 2216	
320-19659-27	OM-SS-10-2	Total/NA	Solid	D 2216	
320-19659-29	OM-SS-20	Total/NA	Solid	D 2216	
320-19659-30	OM-SS-09-2	Total/NA	Solid	D 2216	
320-19659-31	OM-SS-09-5	Total/NA	Solid	D 2216	
320-19659-32	OM-SS-08-2	Total/NA	Solid	D 2216	
320-19659-33	OM-SS-08-5	Total/NA	Solid	D 2216	
320-19659-34	OM-SS-12-2	Total/NA	Solid	D 2216	
320-19659-36	OM-SS-21	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-01-2
Date Collected: 06/16/16 08:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-01-2
Date Collected: 06/16/16 08:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-1
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			30.12 g	3 mL	116148	06/30/16 11:58	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			116636	07/06/16 13:48	UFB	TAL SAC
Total/NA	Prep	8290			9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118160	07/17/16 18:23	ALM	TAL SAC
Total/NA	Prep	8290	DL		9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	50			118598	07/20/16 18:24	ALM	TAL SAC

Client Sample ID: OM-SS-01-5
Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-02-2
Date Collected: 06/16/16 08:53
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-02-2
Date Collected: 06/16/16 08:53
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-3
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			30.36 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		20			115763	06/29/16 00:41	UFB	TAL SAC
Total/NA	Prep	8290			9.99 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118160	07/17/16 19:09	ALM	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-02-5
Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-18
Date Collected: 06/16/16 09:00
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-18
Date Collected: 06/16/16 09:00
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-5
Matrix: Solid
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.79 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			115763	06/29/16 01:10	UFB	TAL SAC

Client Sample ID: OM-SS-06-2
Date Collected: 06/16/16 09:11
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-06-2
Date Collected: 06/16/16 09:11
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-6
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.10 g	3 mL	116148	06/30/16 11:58	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		1			116636	07/07/16 01:35	UFB	TAL SAC
Total/NA	Prep	8290			10.08 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118160	07/17/16 19:55	ALM	TAL SAC

Client Sample ID: OM-SS-06-5
Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-03-2
Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-03-2
Date Collected: 06/16/16 09:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-8
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			30.76 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		50			115763	06/29/16 01:39	UFB	TAL SAC
Total/NA	Prep	8290			10.06 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		5			118598	07/20/16 16:51	ALM	TAL SAC

Client Sample ID: OM-SS-03-5
Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-05-2
Date Collected: 06/16/16 09:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-05-2
Date Collected: 06/16/16 09:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-10
Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.80 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		1			115763	06/29/16 02:32	UFB	TAL SAC
Total/NA	Prep	8290			10.03 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 01:02	ALM	TAL SAC

Client Sample ID: OM-SS-05-5
Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-07-2
Date Collected: 06/16/16 10:04
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-07-2
Date Collected: 06/16/16 10:04
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-12
Matrix: Solid
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.35 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		1			115763	06/29/16 03:01	UFB	TAL SAC
Total/NA	Prep	8290			10.00 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 01:49	ALM	TAL SAC

Client Sample ID: OM-SS-07-5
Date Collected: 06/16/16 10:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-04-2
Date Collected: 06/16/16 10:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-04-2
Date Collected: 06/16/16 10:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-14
Matrix: Solid
Percent Solids: 50.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.37 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		5			116479	07/01/16 10:24	RS1	TAL SAC
Total/NA	Prep	8290			10.06 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 02:35	ALM	TAL SAC

Client Sample ID: OM-SS-04-5
Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-15-2
Lab Sample ID: 320-19659-16
Date Collected: 06/16/16 10:32
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-15-2
Lab Sample ID: 320-19659-16
Date Collected: 06/16/16 10:32
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 58.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.09 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 03:21	ALM	TAL SAC

Client Sample ID: OM-SS-14-2
Lab Sample ID: 320-19659-19
Date Collected: 06/16/16 10:45
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-14-2
Lab Sample ID: 320-19659-19
Date Collected: 06/16/16 10:45
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 04:07	ALM	TAL SAC
Total/NA	Prep	8290	RA		9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118613	07/19/16 16:28	SMA	TAL SAC

Client Sample ID: OM-SS-13-2
Lab Sample ID: 320-19659-20
Date Collected: 06/16/16 10:54
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-13-2
Lab Sample ID: 320-19659-20
Date Collected: 06/16/16 10:54
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.03 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 04:53	ALM	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-16
Date Collected: 06/16/16 11:04
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-16
Date Collected: 06/16/16 11:04
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-22
Matrix: Solid
Percent Solids: 59.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.43 g	6 mL	116148	06/30/16 11:58	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			116636	07/07/16 02:04	UFB	TAL SAC

Client Sample ID: OM-SS-19
Date Collected: 06/16/16 11:08
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-19
Date Collected: 06/16/16 11:08
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-23
Matrix: Solid
Percent Solids: 63.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			30.03 g	6 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		5			116479	07/01/16 10:52	RS1	TAL SAC

Client Sample ID: OM-SS-17
Date Collected: 06/16/16 11:13
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-17
Date Collected: 06/16/16 11:13
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-24
Matrix: Solid
Percent Solids: 64.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.48 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		5			115763	06/29/16 04:27	UFB	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-11-2
Date Collected: 06/16/16 11:33
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-11-2
Date Collected: 06/16/16 11:33
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-25
Matrix: Solid
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 05:39	ALM	TAL SAC
Total/NA	Prep	8290	RA		9.96 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118613	07/19/16 17:06	SMA	TAL SAC

Client Sample ID: OM-SS-10-2
Date Collected: 06/16/16 11:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-10-2
Date Collected: 06/16/16 11:47
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-27
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.07 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 06:26	ALM	TAL SAC
Total/NA	Prep	8290	DL		10.07 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	20			118598	07/20/16 17:38	ALM	TAL SAC
Total/NA	Prep	8290	RA		10.07 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118613	07/19/16 19:37	SMA	TAL SAC

Client Sample ID: OM-SS-20
Date Collected: 06/16/16 11:55
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-20
Date Collected: 06/16/16 11:55
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-29
Matrix: Solid
Percent Solids: 57.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			9.99 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118162	07/18/16 07:12	ALM	TAL SAC
Total/NA	Prep	8290	RA		9.99 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118613	07/19/16 17:44	SMA	TAL SAC

Client Sample ID: OM-SS-09-2
Date Collected: 06/16/16 12:05
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-09-2
Date Collected: 06/16/16 12:05
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-30
Matrix: Solid
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.96 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		5			115763	06/29/16 04:56	UFB	TAL SAC
Total/NA	Prep	8290			10.09 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118585	07/18/16 21:01	SMA	TAL SAC
Total/NA	Prep	8290	DL		10.09 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	10			119069	07/21/16 20:07	KSS	TAL SAC
Total/NA	Prep	8290	RA		10.09 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118975	07/21/16 12:58	SMA	TAL SAC

Client Sample ID: OM-SS-09-5
Date Collected: 06/16/16 12:09
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-08-2
Date Collected: 06/16/16 12:21
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-08-2

Lab Sample ID: 320-19659-32
Date Collected: 06/16/16 12:21
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550B			29.78 g	3 mL	115239	06/24/16 13:15	JTN	TAL SAC
Silica Gel Cleanup	Analysis	8015B		10			116479	07/01/16 11:21	RS1	TAL SAC
Total/NA	Prep	8290			10.08 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118585	07/18/16 21:48	SMA	TAL SAC
Total/NA	Prep	8290	DL		10.08 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	10			119069	07/21/16 20:53	KSS	TAL SAC
Total/NA	Prep	8290	RA		10.08 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A	RA	1			118975	07/21/16 13:36	SMA	TAL SAC

Client Sample ID: OM-SS-08-5

Lab Sample ID: 320-19659-33
Date Collected: 06/16/16 12:25
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-12-2

Lab Sample ID: 320-19659-34
Date Collected: 06/16/16 12:38
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Client Sample ID: OM-SS-12-2

Lab Sample ID: 320-19659-34
Date Collected: 06/16/16 12:38
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.03 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118585	07/18/16 22:34	SMA	TAL SAC

Client Sample ID: OM-SS-21

Lab Sample ID: 320-19659-36
Date Collected: 06/16/16 12:45
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115962	06/29/16 14:23	JMD	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Client Sample ID: OM-SS-21

Lab Sample ID: 320-19659-36

Date Collected: 06/16/16 12:45
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.07 g	20 uL	117526	07/12/16 13:07	BNB	TAL SAC
Total/NA	Analysis	8290A		1			118585	07/18/16 23:20	SMA	TAL SAC

Client Sample ID: OM-W

Lab Sample ID: 320-19659-37

Date Collected: 06/16/16 13:10
Date Received: 06/17/16 13:50

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			968.4 mL	3 mL	115045	06/23/16 11:34	NGK	TAL SAC
Silica Gel Cleanup	Analysis	8015B		1			115426	06/27/16 18:13	UFB	TAL SAC
Silica Gel Cleanup	Prep	3510C SGC	RE		953 mL	3 mL	116520	07/05/16 10:54	K1G	TAL SAC
Silica Gel Cleanup	Analysis	8015B	RE	1			116636	07/07/16 12:40	UFB	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2897	01-31-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B	3510C SGC	Water	Motor Oil Range Organics (C24-C40)
8015B	3550B	Solid	Motor Oil Range Organics (C24-C40)
8290A	8290	Solid	1,2,3,4,6,7,8-HpCDD
8290A	8290	Solid	1,2,3,4,6,7,8-HpCDF
8290A	8290	Solid	1,2,3,4,7,8,9-HpCDF
8290A	8290	Solid	1,2,3,4,7,8-HxCDD
8290A	8290	Solid	1,2,3,4,7,8-HxCDF
8290A	8290	Solid	1,2,3,6,7,8-HxCDD
8290A	8290	Solid	1,2,3,6,7,8-HxCDF
8290A	8290	Solid	1,2,3,7,8,9-HxCDD
8290A	8290	Solid	1,2,3,7,8,9-HxCDF
8290A	8290	Solid	1,2,3,7,8-PeCDD
8290A	8290	Solid	1,2,3,7,8-PeCDF
8290A	8290	Solid	2,3,4,6,7,8-HxCDF
8290A	8290	Solid	2,3,4,7,8-PeCDF
8290A	8290	Solid	2,3,7,8-TCDD
8290A	8290	Solid	2,3,7,8-TCDF
8290A	8290	Solid	OCDD
8290A	8290	Solid	OCDF
8290A	8290	Solid	Total HpCDD
8290A	8290	Solid	Total HpCDF
8290A	8290	Solid	Total HxCDD
8290A	8290	Solid	Total HxCDF
8290A	8290	Solid	Total PeCDD
8290A	8290	Solid	Total PeCDF
8290A	8290	Solid	Total TCDD
8290A	8290	Solid	Total TCDF
D 2216		Solid	Percent Moisture

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SAC
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC

Protocol References:

ASTM = ASTM International

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-19659-1	OM-SS-01-2	Solid	06/16/16 08:07	06/17/16 13:50
320-19659-2	OM-SS-01-5	Solid	06/16/16 08:10	06/17/16 13:50
320-19659-3	OM-SS-02-2	Solid	06/16/16 08:53	06/17/16 13:50
320-19659-4	OM-SS-02-5	Solid	06/16/16 08:56	06/17/16 13:50
320-19659-5	OM-SS-18	Solid	06/16/16 09:00	06/17/16 13:50
320-19659-6	OM-SS-06-2	Solid	06/16/16 09:11	06/17/16 13:50
320-19659-7	OM-SS-06-5	Solid	06/16/16 09:14	06/17/16 13:50
320-19659-8	OM-SS-03-2	Solid	06/16/16 09:25	06/17/16 13:50
320-19659-9	OM-SS-03-5	Solid	06/16/16 09:28	06/17/16 13:50
320-19659-10	OM-SS-05-2	Solid	06/16/16 09:47	06/17/16 13:50
320-19659-11	OM-SS-05-5	Solid	06/16/16 09:52	06/17/16 13:50
320-19659-12	OM-SS-07-2	Solid	06/16/16 10:04	06/17/16 13:50
320-19659-13	OM-SS-07-5	Solid	06/16/16 10:07	06/17/16 13:50
320-19659-14	OM-SS-04-2	Solid	06/16/16 10:21	06/17/16 13:50
320-19659-15	OM-SS-04-5	Solid	06/16/16 10:25	06/17/16 13:50
320-19659-16	OM-SS-15-2	Solid	06/16/16 10:32	06/17/16 13:50
320-19659-19	OM-SS-14-2	Solid	06/16/16 10:45	06/17/16 13:50
320-19659-20	OM-SS-13-2	Solid	06/16/16 10:54	06/17/16 13:50
320-19659-22	OM-SS-16	Solid	06/16/16 11:04	06/17/16 13:50
320-19659-23	OM-SS-19	Solid	06/16/16 11:08	06/17/16 13:50
320-19659-24	OM-SS-17	Solid	06/16/16 11:13	06/17/16 13:50
320-19659-25	OM-SS-11-2	Solid	06/16/16 11:33	06/17/16 13:50
320-19659-27	OM-SS-10-2	Solid	06/16/16 11:47	06/17/16 13:50
320-19659-29	OM-SS-20	Solid	06/16/16 11:55	06/17/16 13:50
320-19659-30	OM-SS-09-2	Solid	06/16/16 12:05	06/17/16 13:50
320-19659-31	OM-SS-09-5	Solid	06/16/16 12:09	06/17/16 13:50
320-19659-32	OM-SS-08-2	Solid	06/16/16 12:21	06/17/16 13:50
320-19659-33	OM-SS-08-5	Solid	06/16/16 12:25	06/17/16 13:50
320-19659-34	OM-SS-12-2	Solid	06/16/16 12:38	06/17/16 13:50
320-19659-36	OM-SS-21	Solid	06/16/16 12:45	06/17/16 13:50
320-19659-37	OM-W	Water	06/16/16 13:10	06/17/16 13:50

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 1 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Dioxins/Furans (EPA Method 8290)	Request for Analysis	Additional Requirements
OM-SS-01-2	6/16/16	0807			Soil	2	X	X	320-19659 Chain of Custody	
OM-SS-01-5	6/16/16	0810			Soil	2	X	X		HOLD
OM-SS-02-2	6/16/16	0853			Soil	2	X	X		
OM-SS-02-5	6/16/16	0856			Soil	2	X	X		HOLD
OM-SS-18	6/16/16	0900			Soil	1	X			
OM-SS-06-2	6/16/16	0911			Soil	2	X	X		
OM-SS-06-5	6/16/16	0914			Soil	2	X	X		HOLD
OM-SS-03-2	6/16/16	0925			Soil	2	X	X		
OM-SS-03-5	6/16/16	0928			Soil	2	X	X		HOLD
OM-SS-05-2	6/16/16	0947			Soil	2	X	X		
OM-SS-05-5	6/16/16	0952			Soil	2	X	X		HOLD
OM-SS-07-2	6/16/16	1004			Soil	2	X	X		
OM-SS-07-5	6/16/16	1007			Soil	2	X	X		HOLD

Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
	6/17/16 1350		6-17-16 1350
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

4.6°C
S.A.L

For Laboratory Use Only

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 2 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Dioxins/Furans (EPA Method 8290)								Additional Requirements
OM-SS-04-2	6/16/16	1021			Soil	2	X	X								
OM-SS-04-5	6/16/16	1025			Soil	2	X	X								HOLD
OM-SS-15-2	6/16/16	1032			Soil	1		X								
OM-SS-15-5	6/16/16	1036			Soil	1		X								HOLD
OM-SS-14-5	6/16/16	1042			Soil	1		X								HOLD
OM-SS-14-2	6/16/16	1045			Soil	1		X								
OM-SS-13-2	6/16/16	1054			Soil	1		X								
OM-SS-13-5	6/16/16	1057			Soil	1		X								HOLD
OM-SS-16	6/16/16	1104			Soil	1	X									
OM-SS-19	6/16/16	1108			Soil	1	X									
OM-SS-17	6/16/16	1113			Soil	1	X									
OM-SS-11-2	6/16/16	1133			Soil	1		X								
OM-SS-11-5	6/16/16	1144			Soil	1		X								HOLD

Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
	6/17/16 1850		6-17-16 1850
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
			6/17/16 0855
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

4.6°C
5.9°C

For Laboratory Use Only

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 3 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Dioxins/Furans (EPA Method 8290)							Additional Requirements
OM-SS-10-2	6/16/16	1147			Soil	1		X							
OM-SS-10-5	6/16/16	1151			Soil	1		X							HOLD
OM-SS-20	6/16/16	1155			Soil	1		X							
OM-SS-09-2	6/16/16	1205			Soil	2	X	X							
OM-SS-09-5	6/16/16	1209			Soil	2	X	X							HOLD
OM-SS-08-2	6/16/16	1221			Soil	2	X	X							
OM-SS-08-5	6/16/16	1225			Soil	2	X	X							HOLD
OM-SS-12-2	6/16/16	1238			Soil	1		X							
OM-SS-12-5	6/16/16	1242			Soil	1		X							HOLD
OM-SS-21	6/16/16	1245			Soil	1		X							
OM-W	6/16/16	1310			Soil	2	X								
	6/ /16				Soil										
	6/ /16				Soil										

Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
[signature]	6/17/16 1352	[signature]	6-17-16 0950
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

For Laboratory Use Only

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 320-19659-1

Login Number: 19659
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	-37: COC lists as soill, but it is a water
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

MT. SHASTA OLD MILL
MT. SHASTA, SISKIYOU COUNTY, CALIFORNIA
DATA VALIDATION REPORT

Date: October 12, 2016
Laboratory: TestAmerica Laboratories, Inc., West Sacramento, CA
Laboratory Job Number: 320-19659-2
Data Validation Performed By: Mindy Song, CSS-Dynamac
Weston Work Order #: 20074.063.515.1007.01

This data validation report has been prepared by CSS-Dynamac. This report documents the data validation for 15 soil samples collected for the Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Dioxins and Furans by SW-846 Method 8290A

A level II data package was requested from TestAmerica Laboratories, Inc. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated August 2014 and "Contract Laboratory Program National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review" dated August 2011. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

Data Validation Report – October 12, 2016
Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, CA
Laboratory: TestAmerica Laboratories, Inc.
Laboratory Job Number: 320-19659-2

DIOXINS AND FURANS BY SW-846 METHOD 8290A

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
OM-SS-01-5	320-19659-2	Soil	6/16/16	7/11/16	8/22/16
OM-SS-02-5	320-19659-4	Soil	6/16/16	7/11/16	8/22/16
OM-SS-06-5	320-19659-7	Soil	6/16/16	7/11/16	8/22/16
OM-SS-03-5	320-19659-9	Soil	6/16/16	7/11/16	8/22/16
OM-SS-05-5	320-19659-11	Soil	6/16/16	7/11/16	8/22/16
OM-SS-07-5	320-19659-13	Soil	6/16/16	7/11/16	8/23/16
OM-SS-04-5	320-19659-15	Soil	6/16/16	7/11/16	8/23/16
OM-SS-15-5	320-19659-17	Soil	6/16/16	7/11/16	8/23/16
OM-SS-14-5	320-19659-18	Soil	6/16/16	7/11/16	8/23/16
OM-SS-13-5	320-19659-21	Soil	6/16/16	7/11/16	8/23/16
OM-SS-11-5	320-19659-26	Soil	6/16/16	7/11/16	8/23/16
OM-SS-10-5	320-19659-28	Soil	6/16/16	7/11/16	8/23/16
OM-SS-09-5	320-19659-31	Soil	6/16/16	7/11/16	8/23/16
OM-SS-08-5	320-19659-33	Soil	6/16/16	7/11/16	8/23/16
OM-SS-12-5	320-19659-35	Soil	6/16/16	7/11/16	8/23/16

1. Data Verification Check

A data verification and completeness check was performed in accordance with the Stage 1 and 2A verification checks outlined in the EPA "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use" dated January 13, 2009. For the Dioxins/Furans analyses, all analytical data package items were received from the laboratory and the analyses requested were performed.

2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection to extraction and 45 days from extraction to analysis.

3. Blanks

Method blank was analyzed with the Dioxins/Furans analyses. The method blank was free of target compound contamination above the reporting limits.

4. Surrogate Results

The surrogate recoveries were within the laboratory-established QC limits.

5. Laboratory Control Sample (LCS) Results

The LCS recoveries were within laboratory QC limits except following: The recovery of 1,2,3,4,6,7,8-HpCDD was slightly above the upper control limit and the detected results of 1,2,3,4,6,7,8-HpCDD in the samples were qualified as estimated (J).

6. Laboratory Duplicate Results/Field Duplicate Results

Laboratory duplicate was not analyzed but LCS Duplicate (LCSD) was analyzed. All relative percent differences (RPDs) except 1,2,3,4,6,7,8-HpCDD were within the control limits. The detected results of 1,2,3,4,6,7,8-HpCDD in the samples were qualified as estimated (J).

Sample OM-SS-20 was a field duplicate of sample OM-SS-10-5. The relative percent differences (RPDs) of 2,3,7,8-TCDD and 2,3,7,8-TCDF were within the control limits. The RPDs of target analytes except 2,3,7,8-TCDD and 2,3,7,8-TCDF were outside of control limits and the detected results in samples OM-SS-20 and OM-SS-10-5 were qualified as estimated (J).

7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results

Site-specific MS and MSD were not analyzed.

8. Overall Assessment

TestAmerica flagged sample results with the following laboratory qualifiers:

B: Indicates that compound was found in the blank and sample. The data validator removed these qualifiers.

J: Indicates that the concentration is an approximate value because the analyte concentration is below the reporting limit (RL) and above the method detection limit (MDL). These qualifiers were left in place by the data validator.

*: Indicates that LCS or LCSD is outside acceptance limits. The data validator removed these qualifiers and added 'J' qualifiers.

G: Indicates that the reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference. The data validator removed these qualifiers.

E: Indicates result exceeded calibration range. The data validator removed these qualifiers and added "J" qualifiers.

q: Indicates that the reported concentration is the estimated maximum possible concentration (EMPC) of the analyte, quantitated using the theoretical ion ratio. The measured ion ratio did not meet qualitative identification criteria and indicates a possible interference. The data validator removed these qualifiers and added "J" qualifiers.

The Dioxins and Furans data are acceptable for use as qualified based on the information received.

Data Validation Report – October 12, 2016
Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, CA
Laboratory: TestAmerica Laboratories, Inc.
Laboratory Job Number: 320-19659-2

ATTACHMENT

TESTAMRICA LABORATORIES INC
RESULTS SUMMARY WITH QUALIFIERS

Client Sample ID: OM-SS-01-5
Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid
Percent Solids: 70.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000014	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,7,8-TCDF	0.00000024	J	0.0000014	0.0000000 16	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8-PeCDD	0.000000029	J q	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8-PeCDF	0.000000027	J q	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,4,7,8-PeCDF	0.000000035	J q	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8-HxCDD	0.000000062	J	0.0000071	0.0000000 24	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,6,7,8-HxCDD	0.00000010	J q B	0.0000071	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8,9-HxCDD	0.00000017	J	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8-HxCDF	0.00000014	J B	0.0000071	0.0000000 33	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,6,7,8-HxCDF	ND	U	0.0000071	0.0000000 30	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,4,6,7,8-HxCDF	0.000000042	J	0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,6,7,8-HpCDD	0.000033	B J	0.0000071	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,6,7,8-HpCDF	0.00000038	J B	0.0000071	0.0000000 23	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8,9-HpCDF	0.000000050	J q B	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
OCDF	0.0000047	J B	0.000014	0.0000000 64	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total TCDD	0.00000020	J	0.0000014	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total TCDF	0.00000032	J q	0.0000014	0.0000000 16	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total PeCDD	0.000000029	J q	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total PeCDF	0.000000061	J q	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HxCDD	0.00000058	J q B	0.0000071	0.0000000 21	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HxCDF	0.00000018	J B	0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HpCDD	0.000073	B	0.0000071	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HpCDF	0.0000015	J q B	0.0000071	0.0000000 25	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,7,8-PeCDF	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*

Client Sample ID: OM-SS-01-5

Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid
Percent Solids: 70.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135	07/11/16 14:06	08/22/16 20:46	1
13C-OCDD	77		40 - 135	07/11/16 14:06	08/22/16 20:46	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.051	B	0.00028	0.000049	mg/Kg	☼	07/11/16 14:06	08/23/16 20:09	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	80		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-2,3,7,8-TCDF	88		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,7,8-PeCDD	82		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,7,8-PeCDF	89		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,6,7,8-HxCDD	87		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,7,8-HxCDF	89		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,6,7,8-HpCDD	103		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,6,7,8-HpCDF	106		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-OCDD	107		40 - 135	07/11/16 14:06	08/23/16 20:09	20

Client Sample ID: OM-SS-02-5

Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4
Matrix: Solid
Percent Solids: 74.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000013	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,7,8-TCDF	ND	U	0.0000013	0.00000019	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8-PeCDD	ND	U	0.0000067	0.00000046	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8-PeCDF	ND	U	0.0000067	0.00000023	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,4,7,8-PeCDF	ND	U	0.0000067	0.00000024	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8-HxCDD	**0.00000011**	J	0.0000067	0.00000042	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,6,7,8-HxCDD	**0.00000044**	J B	0.0000067	0.00000038	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8,9-HxCDD	**0.00000031**	J	0.0000067	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8-HxCDF	**0.000000089**	J B	0.0000067	0.00000035	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,6,7,8-HxCDF	**0.000000051**	~~J H G M C~~ J	0.0000067	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000067	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,4,6,7,8-HxCDF	ND	U	0.0000067	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,6,7,8-HpCDD	**0.0000041**	~~J B~~ J	0.0000067	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,6,7,8-HpCDF	**0.0000028**	J B	0.0000067	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000067	0.00000040	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1

Client Sample ID: OM-SS-02-5

Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4

Matrix: Solid
Percent Solids: 74.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.000038	~~B~~	0.000013	0.00000075	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
OCDF	0.0000016	J ~~B~~	0.000013	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total TCDD	ND	U	0.0000013	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total TCDF	ND	U	0.0000013	0.00000019	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total PeCDD	0.000000066	J ~~q EMPC~~	0.0000067	0.00000046	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total PeCDF	ND	U	0.0000067	0.00000024	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HxCDD	0.0000026	J ~~B~~	0.0000067	0.00000038	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HxCDF	0.0000015	J ~~q B EMPC~~	0.0000067	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HpCDD	0.0000074	~~B~~	0.0000067	0.000001 4	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HpCDF	0.0000053	J ~~B~~	0.0000067	0.00000037	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,7,8-PeCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-OCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*

Client Sample ID: OM-SS-06-5

Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7

Matrix: Solid
Percent Solids: 77.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000013	0.00000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,7,8-TCDF	ND	U	0.0000013	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8-PeCDD	ND	U	0.0000064	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8-PeCDF	ND	U	0.0000064	0.00000021	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,4,7,8-PeCDF	ND	U	0.0000064	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,7,8-HxCDD	0.00000012	J ~~q EMPC~~	0.0000064	0.00000035	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,6,7,8-HxCDD	0.00000089	J ~~B~~	0.0000064	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8,9-HxCDD	0.00000031	J	0.0000064	0.00000028	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1

Client Sample ID: OM-SS-06-5

Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7

Matrix: Solid
Percent Solids: 77.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDF	0.00000022	J B	0.0000064	0.00000055	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,6,7,8-HxCDF	0.00000018	J	0.0000064	0.00000050	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000064	0.00000053	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,4,6,7,8-HxCDF	0.00000020	J	0.0000064	0.00000054	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,6,7,8-HpCDD	0.000024	B J	0.0000064	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,6,7,8-HpCDF	0.000022	B	0.0000064	0.0000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000064	0.0000017	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
OCDD	0.00030	B	0.000013	0.0000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
OCDF	0.000016	B	0.000013	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total TCDD	0.00000022	J q Empl	0.0000013	0.00000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total TCDF	0.000000078	J q Empl	0.0000013	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total PeCDD	0.00000016	J	0.0000064	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total PeCDF	0.00000089	J q Empl	0.0000064	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HxCDD	0.0000042	J q B Empl	0.0000064	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HxCDF	0.0000077	B	0.0000064	0.00000053	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HpCDD	0.000043	B	0.0000064	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HpCDF	0.000042	B	0.0000064	0.0000015	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	84		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-2,3,7,8-TCDF	87		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,7,8-PeCDD	82		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,7,8-PeCDF	86		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,6,7,8-HxCDD	90		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,4,7,8-HxCDF	90		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,4,6,7,8-HpCDD	88		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	07/11/16 14:06	08/22/16 22:17	1
13C-OCDD	80		40 - 135	07/11/16 14:06	08/22/16 22:17	1

Client Sample ID: OM-SS-03-5

Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9

Matrix: Solid
Percent Solids: 79.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000052	J	0.0000012	0.00000070	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1

Client Sample ID: OM-SS-03-5
Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9
Matrix: Solid
Percent Solids: 79.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000035	J	0.0000012	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8-PeCDD	0.0000015	J	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8-PeCDF	0.00000040	J q	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
2,3,4,7,8-PeCDF	0.00000056	J	0.0000062	0.0000001 8	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8-HxCDD	0.0000038	J	0.0000062	0.0000002 4	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,6,7,8-HxCDD	0.000037	B	0.0000062	0.0000002 2	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8,9-HxCDD	0.0000082		0.0000062	0.0000001 9	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8-HxCDF	0.0000036	J B	0.0000062	0.0000005 6	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,6,7,8-HxCDF	0.0000035	J	0.0000062	0.0000005 0	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000062	0.0000005 3	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
2,3,4,6,7,8-HxCDF	0.0000036	J	0.0000062	0.0000005 4	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,6,7,8-HpCDD	0.00051	B J	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,6,7,8-HpCDF	0.00042	B	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8,9-HpCDF	0.0000043	J B	0.0000062	0.0000039	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
OCDD	0.0046	B	0.000012	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
OCDF	0.00021	B	0.000012	0.0000001 1	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total TCDD	0.000021	q J	0.0000012	0.0000000 70	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total TCDF	0.0000040		0.0000012	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total PeCDD	0.000019	q J	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total PeCDF	0.000017	q J	0.0000062	0.0000001 8	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HxCDD	0.00021	B	0.0000062	0.0000002 1	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HxCDF	0.00016	B	0.0000062	0.0000005 3	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HpCDD	0.00093	B	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HpCDF	0.00071	B	0.0000062	0.0000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-OCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*

Client Sample ID: OM-SS-05-5
Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid
Percent Solids: 65.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000015	0.00000021	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,7,8-TCDF	ND	U	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8-PeCDD	ND	U	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8-PeCDF	ND	U	0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,4,7,8-PeCDF	ND	U	0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8-HxCDD	ND	U	0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,6,7,8-HxCDD	**0.000000076**	J B	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8,9-HxCDD	**0.000000051**	J ~~q-EMPC~~	0.0000076	0.00000028	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8-HxCDF	ND	U	0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,6,7,8-HxCDF	ND	U	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000076	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,4,6,7,8-HxCDF	ND	U	0.0000076	0.00000035	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,6,7,8-HpCDD	**0.00000043**	~~J B~~ J	0.0000076	0.0000013	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,6,7,8-HpCDF	ND	U	0.0000076	0.00000012	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000076	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
OCDD	**0.0000031**	J B	0.000015	0.00000058	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
OCDF	ND	U	0.000015	0.00000018	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total TCDD	ND	U	0.0000015	0.00000021	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total TCDF	ND	U	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total PeCDD	ND	U	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total PeCDF	ND	U	0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HxCDD	**0.00000013**	J ~~q-B-EMPC~~	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HxCDF	ND	U	0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HpCDD	**0.00000067**	J ~~q-B-EMPC~~	0.0000076	0.00000013	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HpCDF	ND	U	0.0000076	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*

Client Sample ID: OM-SS-05-5

Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid
Percent Solids: 65.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	91		40 - 135	07/11/16 14:06	08/22/16 23:49	1
13C-1,2,3,4,7,8-HxCDF	91		40 - 135	07/11/16 14:06	08/22/16 23:49	1
13C-1,2,3,4,6,7,8-HpCDD	94		40 - 135	07/11/16 14:06	08/22/16 23:49	1
13C-1,2,3,4,6,7,8-HpCDF	95		40 - 135	07/11/16 14:06	08/22/16 23:49	1
13C-OCDD	85		40 - 135	07/11/16 14:06	08/22/16 23:49	1

Client Sample ID: OM-SS-07-5

Date Collected: 06/16/16 10:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-13
Matrix: Solid
Percent Solids: 68.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000015	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,7,8-TCDF	ND	U	0.0000015	0.00000015	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8-PeCDD	ND	U	0.0000073	0.00000039	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8-PeCDF	ND	U	0.0000073	0.00000021	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,4,7,8-PeCDF	ND	U	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8-HxCDD	**0.000000063**	J ~~B~~ Emfc	0.0000073	0.00000037	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,6,7,8-HxCDD	**0.00000046**	J ~~B~~	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8,9-HxCDD	**0.00000023**	J	0.0000073	0.00000029	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8-HxCDF	ND	U	0.0000073	0.00000037	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,6,7,8-HxCDF	**0.000000051**	J ~~B~~ Emfc	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000073	0.00000036	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,4,6,7,8-HxCDF	**0.000000050**	J	0.0000073	0.00000036	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,6,7,8-HpCDD	**0.0000078**	~~B~~ J	0.0000073	0.00000013	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,6,7,8-HpCDF	**0.0000038**	J ~~B~~	0.0000073	0.00000047	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000073	0.00000057	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
OCDD	**0.000095**	~~B~~	0.000015	0.00000086	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
OCDF	**0.0000026**	J ~~B~~	0.000015	0.00000060	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total TCDD	**0.00000011**	J	0.0000015	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total TCDF	ND	U	0.0000015	0.00000015	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total PeCDD	ND	U	0.0000073	0.00000039	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total PeCDF	**0.000000093**	J	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1

Client Sample ID: OM-SS-07-5

Date Collected: 06/16/16 10:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-13
Matrix: Solid
Percent Solids: 68.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	0.0000027	J ~~q B~~ EMPC	0.0000073	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HxCDF	0.0000015	J ~~q B~~ EMPC	0.0000073	0.0000000 36	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HpCDD	0.000015	~~B~~	0.0000073	0.0000001 3	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HpCDF	0.0000068	J ~~q B~~ EMPC	0.0000073	0.0000000 52	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-2,3,7,8-TCDF	*72*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,7,8-HxCDF	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*80*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-OCDD	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*

Client Sample ID: OM-SS-04-5

Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15
Matrix: Solid
Percent Solids: 60.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000050	J	0.0000016	0.0000000 68	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,7,8-TCDF	0.00000035	J	0.0000016	0.0000001 4	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8-PeCDD	0.0000028	J	0.0000082	0.0000000 89	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8-PeCDF	0.00000079	J ~~q~~ EMPC	0.0000082	0.0000001 6	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,4,7,8-PeCDF	0.0000010	J	0.0000082	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8-HxCDD	0.0000077	J	0.0000082	0.0000002 6	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,6,7,8-HxCDD	0.000045	~~B~~	0.0000082	0.0000002 4	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8,9-HxCDD	0.000013		0.0000082	0.0000002 0	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8-HxCDF	0.0000058	J ~~B~~	0.0000082	0.0000010	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,6,7,8-HxCDF	0.0000054	J	0.0000082	0.0000009 0	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000082	0.0000009 5	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,4,6,7,8-HxCDF	0.0000050	J	0.0000082	0.0000009 6	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,6,7,8-HpCDD	0.00095	~~B~~ J	0.0000082	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,6,7,8-HpCDF	0.00062	~~B~~	0.0000082	0.0000037	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8,9-HpCDF	0.0000078	J ~~B~~	0.0000082	0.0000044	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
OCDD	0.0089	~~B~~ J	0.000016	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1

Client Sample ID: OM-SS-04-5

Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15
Matrix: Solid
Percent Solids: 60.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	0.00056	B	0.000016	0.00000021	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total TCDD	0.000013	q J	0.0000016	0.00000068	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total TCDF	0.0000067	q J	0.0000016	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total PeCDD	0.000020	q J	0.0000082	0.00000089	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total PeCDF	0.000033	q J	0.0000082	0.00000017	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HxCDD	0.00024	B	0.0000082	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HxCDF	0.00029	B	0.0000082	0.00000095	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HpCDD	0.0017	B	0.0000082	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HpCDF	0.0012	B	0.0000082	0.0000040	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,7,8-PeCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,7,8-HxCDF	*98*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*78*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-OCDD	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*

Client Sample ID: OM-SS-15-5

Date Collected: 06/16/16 10:36
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-17
Matrix: Solid
Percent Solids: 68.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000014	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,7,8-TCDF	0.00000044	J	0.0000014	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8-PeCDD	0.000000052	J	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8-PeCDF	0.00000012	J	0.0000072	0.00000029	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,4,7,8-PeCDF	0.000000080	J q	0.0000072	0.00000030	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8-HxCDD	0.000000066	J q	0.0000072	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,6,7,8-HxCDD	0.000000095	J B q	0.0000072	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8,9-HxCDD	0.000000073	J	0.0000072	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8-HxCDF	0.00000021	J B	0.0000072	0.00000035	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,6,7,8-HxCDF	0.00000013	J	0.0000072	0.00000032	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1

Client Sample ID: OM-SS-15-5

Date Collected: 06/16/16 10:36
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-17
Matrix: Solid
Percent Solids: 68.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	0.000000059	J q	0.0000072	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,4,6,7,8-HxCDF	0.000000084	J	0.0000072	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,6,7,8-HpCDD	0.0000012	J B	0.0000072	0.0000000 41	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,6,7,8-HpCDF	0.0000017	J B	0.0000072	0.0000000 43	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8,9-HpCDF	0.00000024	J B	0.0000072	0.0000000 51	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
OCDD	0.000015	B	0.000014	0.0000000 51	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
OCDF	0.0000043	J B	0.000014	0.0000000 39	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total TCDD	0.00000019	J q	0.0000014	0.0000000 25	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total TCDF	0.0000015	q J	0.0000014	0.0000000 23	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total PeCDD	0.00000018	J q	0.0000072	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total PeCDF	0.00000045	J q	0.0000072	0.0000000 29	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HxCDD	0.00000083	J B q	0.0000072	0.0000000 23	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HxCDF	0.00000076	J B q	0.0000072	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HpCDD	0.0000030	J B	0.0000072	0.0000000 41	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HpCDF	0.0000031	J B	0.0000072	0.0000000 47	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,6,7,8-HxCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-OCDD	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*

Client Sample ID: OM-SS-14-5

Date Collected: 06/16/16 10:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-18
Matrix: Solid
Percent Solids: 74.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000098		0.0000013	0.0000007 9	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8-PeCDD	0.000022		0.0000067	0.0000004 0	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8-PeCDF	0.0000022	J q	0.0000067	0.0000007 9	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1

Client Sample ID: OM-SS-14-5
Date Collected: 06/16/16 10:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-18
Matrix: Solid
Percent Solids: 74.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.0000026	J	0.0000067	0.00000082	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8-HxCDD	0.000073		0.0000067	0.0000012	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,6,7,8-HxCDD	0.00030	B	0.0000067	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8,9-HxCDD	0.000076		0.0000067	0.00000092	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8-HxCDF	0.000020	B	0.0000067	0.0000035	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,6,7,8-HxCDF	0.000019		0.0000067	0.0000031	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
2,3,4,6,7,8-HxCDF	0.000020		0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,6,7,8-HpCDF	0.0023	B G	0.000010	0.000010	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8,9-HpCDF	0.000027	B G	0.000012	0.000012	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
OCDF	0.0016	B	0.000013	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total TCDD	0.00031		0.0000013	0.00000079	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total TCDF	0.000020	q Estimated J	0.0000013	0.00000018	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total PeCDD	0.00018		0.0000067	0.00000040	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total PeCDF	0.00011	q Estimated J	0.0000067	0.00000081	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HxCDD	0.0015	B	0.0000067	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HxCDF	0.0011	B	0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HpCDF	0.0044	B G	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	78		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-2,3,7,8-TCDF	83		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,7,8-PeCDD	77		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,7,8-PeCDF	82		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,6,7,8-HxCDD	86		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,4,6,7,8-HpCDD	84		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-1,2,3,4,6,7,8-HpCDF	87		40 - 135	07/11/16 14:06	08/23/16 06:26	1
13C-OCDD	72		40 - 135	07/11/16 14:06	08/23/16 06:26	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0031	B J	0.000033	0.000021	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5
OCDD	0.020	B	0.000067	0.000013	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5
Total HpCDD	0.0053	B	0.000033	0.000021	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	81		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-2,3,7,8-TCDF	87		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,7,8-PeCDD	77		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,7,8-PeCDF	85		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,6,7,8-HxCDD	82		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,4,7,8-HxCDF	80		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,4,6,7,8-HpCDD	95		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-1,2,3,4,6,7,8-HpCDF	100		40 - 135	07/11/16 14:06	08/23/16 19:23	5
13C-OCDD	93		40 - 135	07/11/16 14:06	08/23/16 19:23	5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000086	J	0.0000013	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 18:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	87		40 - 135	07/11/16 14:06	08/23/16 18:55	1

Client Sample ID: OM-SS-13-5

Date Collected: 06/16/16 10:57
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-21

Matrix: Solid
Percent Solids: 49.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000020	0.00000049	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,7,8-TCDF	0.00000035	J	0.0000020	0.00000046	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8-PeCDD	0.00000073	J	0.000010	0.00000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8-PeCDF	0.00000051	J q	0.000010	0.00000097	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,4,7,8-PeCDF	0.00000073	J	0.000010	0.00000010	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8-HxCDD	0.0000013	J q	0.000010	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,6,7,8-HxCDD	0.000011	B	0.000010	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8,9-HxCDD	0.0000034	J	0.000010	0.00000091	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8-HxCDF	0.0000027	J B q	0.000010	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,6,7,8-HxCDF	0.0000027	J	0.000010	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8,9-HxCDF	ND	U	0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,4,6,7,8-HxCDF	0.0000026	J	0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,6,7,8-HpCDD	0.00014	B J	0.000010	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,6,7,8-HpCDF	0.00023	B	0.000010	0.00000088	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8,9-HpCDF	0.0000018	J B	0.000010	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
OCDD	0.00098	B	0.000020	0.00000042	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
OCDF	0.00010	B	0.000020	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total TCDD	0.0000043	q J	0.0000020	0.00000049	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total TCDF	0.0000032	q J	0.0000020	0.00000046	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total PeCDD	0.0000056	J q	0.000010	0.00000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total PeCDF	0.000017	q J	0.000010	0.00000099	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HxCDD	0.000055	B q J	0.000010	0.00000010	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HxCDF	0.00011	B q J	0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HpCDD	0.00025	B	0.000010	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-13-5

Date Collected: 06/16/16 10:57
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-21
Matrix: Solid
Percent Solids: 49.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HpCDF	0.00038	~~B~~	0.000010	0.00000097	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,7,8-PeCDD	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*82*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*66*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-OCDD	*50*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*

Client Sample ID: OM-SS-11-5

Date Collected: 06/16/16 11:44
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-26
Matrix: Solid
Percent Solids: 66.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000020		0.0000015	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,7,8-TCDF	0.0000011	J	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8-PeCDD	0.000011		0.0000075	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,4,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8-HxCDD	0.000041		0.0000075	0.00000093	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,6,7,8-HxCDD	0.00018	~~B~~	0.0000075	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8,9-HxCDD	0.000058		0.0000075	0.00000073	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8-HxCDF	0.000047	~~B G~~	0.0000087	0.0000087	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,6,7,8-HxCDF	0.000036	~~G~~	0.0000078	0.0000078	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8,9-HxCDF	ND	~~G~~ U	0.0000083	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,4,6,7,8-HxCDF	0.000031	~~G~~	0.0000084	0.0000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,6,7,8-HpCDD	0.0026	~~B * G~~ J	0.000014	0.000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,6,7,8-HpCDF	0.0055	~~E B G~~ J	0.000037	0.000037	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8,9-HpCDF	0.000092	~~B G~~	0.000045	0.000045	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
OCDD	0.019	~~E B~~ J	0.000015	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
OCDF	0.0045	~~B~~	0.000015	0.0000012	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total TCDD	0.000052		0.0000015	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total TCDF	0.000013	~~q~~ EMPC J	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total PeCDD	0.00018		0.0000075	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total PeCDF	0.00017	~~q~~ EMPC J	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HxCDD	0.0011	~~B~~	0.0000075	0.00000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HxCDF	0.0026	~~B G~~	0.0000083	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HpCDD	0.0047	~~B G~~	0.000014	0.000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HpCDF	0.012	~~B G~~	0.000041	0.000041	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-2,3,7,8-TCDF	62		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,7,8-PeCDD	58		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,7,8-PeCDF	62		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,6,7,8-HxCDD	63		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,7,8-HxCDF	64		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,6,7,8-HpCDD	56		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,6,7,8-HpCDF	56		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-OCDD	51		40 - 135	07/11/16 14:06	08/23/16 07:58	1

Client Sample ID: OM-SS-10-5
Date Collected: 06/16/16 11:51
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-28
Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000053		0.0000017	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,7,8-TCDF	0.0000017		0.0000017	0.00000016	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8-PeCDD	0.000031	J	0.0000086	0.00000071	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8-PeCDF	0.0000065	J	0.0000086	0.00000090	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,4,7,8-PeCDF	0.0000053	J	0.0000086	0.00000094	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8-HxCDD	0.000062	J	0.0000086	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,6,7,8-HxCDD	0.00026	J	0.0000086	0.0000013	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8,9-HxCDD	0.00015	J	0.0000086	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8-HxCDF	0.000051	J	0.0000086	0.0000057	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,6,7,8-HxCDF	0.000062	J	0.0000086	0.0000052	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8,9-HxCDF	ND	UJ	0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,4,6,7,8-HxCDF	0.000058	J	0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,6,7,8-HpCDD	0.0022	J	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,6,7,8-HpCDF	0.0068	J	0.000045	0.000045	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8,9-HpCDF	ND	UJ	0.000054	0.000054	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
OCDD	0.0090	J	0.000017	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
OCDF	0.0024	J	0.000017	0.00000060	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total TCDD	0.00011	J	0.0000017	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total TCDF	0.000021	J	0.0000017	0.00000016	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total PeCDD	0.00036	J	0.0000086	0.00000071	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total PeCDF	0.00026	J	0.0000086	0.00000092	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HxCDD	0.0018	J	0.0000086	0.0000013	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HxCDF	0.0027	J	0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HpCDD	0.0038	J	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HpCDF	0.010	J	0.000049	0.000049	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	77		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-2,3,7,8-TCDF	83		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,7,8-PeCDD	78		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,7,8-PeCDF	83		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,6,7,8-HxCDD	85		40 - 135	07/11/16 14:06	08/23/16 08:44	1

Client Sample ID: OM-SS-10-5

Date Collected: 06/16/16 11:51
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-28
Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,4,6,7,8-HpCDF	78		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-OCDD	73		40 - 135	07/11/16 14:06	08/23/16 08:44	1

Client Sample ID: OM-SS-09-5

Date Collected: 06/16/16 12:09
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-31
Matrix: Solid
Percent Solids: 68.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000024		0.0000015	0.00000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,7,8-TCDF	0.00000033	J	0.0000015	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8-PeCDD	0.0000066	J	0.0000073	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8-PeCDF	0.0000017	J	0.0000073	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,4,7,8-PeCDF	0.0000017	J	0.0000073	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8-HxCDD	0.000017		0.0000073	0.0000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,6,7,8-HxCDD	0.00055	B	0.0000073	0.0000019	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8,9-HxCDD	0.000049		0.0000073	0.0000016	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8-HxCDF	0.000014	B	0.0000073	0.0000029	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000073	0.0000026	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,4,6,7,8-HxCDF	0.0000054	J	0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,6,7,8-HpCDD	0.0025	B	0.0000090	0.0000090	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,6,7,8-HpCDF	0.0015	B	0.0000073	0.0000060	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8,9-HpCDF	0.000012	B	0.0000073	0.0000072	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
OCDD	0.0067	B	0.000015	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
OCDF	0.00057	B	0.000015	0.00000027	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total TCDD	0.00029		0.0000015	0.00000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total TCDF	0.0000051	J	0.0000015	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total PeCDD	0.000088		0.0000073	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total PeCDF	0.000040	J	0.0000073	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HxCDD	0.0019	B	0.0000073	0.0000018	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HxCDF	0.00080	B	0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HpCDD	0.0036	B	0.0000090	0.0000090	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HpCDF	0.0027	B	0.0000073	0.0000066	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	82		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-2,3,7,8-TCDF	86		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,7,8-PeCDD	79		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,7,8-PeCDF	85		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,6,7,8-HxCDD	84		40 - 135	07/11/16 14:06	08/23/16 09:30	1

Client Sample ID: OM-SS-09-5

Date Collected: 06/16/16 12:09
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-31
Matrix: Solid
Percent Solids: 68.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,4,6,7,8-HpCDD	89		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,4,6,7,8-HpCDF	86		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-OCDD	84		40 - 135	07/11/16 14:06	08/23/16 09:30	1

Client Sample ID: OM-SS-08-5

Date Collected: 06/16/16 12:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-33
Matrix: Solid
Percent Solids: 68.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND	U	0.0000015	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,7,8-TCDF	ND	U	0.0000015	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8-PeCDD	ND	U	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8-PeCDF	0.000000023	J q	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,4,7,8-PeCDF	ND	U	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8-HxCDD	ND	U	0.0000073	0.00000038	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,6,7,8-HxCDD	0.00000022	J B q	0.0000073	0.00000035	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8,9-HxCDD	0.00000010	J q	0.0000073	0.00000030	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8-HxCDF	ND	U	0.0000073	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,6,7,8-HxCDF	ND	U	0.0000073	0.00000052	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000073	0.00000056	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,4,6,7,8-HxCDF	ND	U	0.0000073	0.00000056	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,6,7,8-HpCDD	0.00000072	J B	0.0000073	0.00000055	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,6,7,8-HpCDF	0.00000053	J B	0.0000073	0.00000054	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0000073	0.00000065	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
OCDD	0.0000098	J B	0.000015	0.00000042	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
OCDF	0.00000041	J B	0.000015	0.00000032	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total TCDD	0.00000011	J q	0.0000015	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total TCDF	0.000000027	J q	0.0000015	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total PeCDD	ND	U	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total PeCDF	0.000000023	J q	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HxCDD	0.00000052	J B q	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1

Client Sample ID: OM-SS-08-5

Date Collected: 06/16/16 12:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-33
Matrix: Solid
Percent Solids: 68.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDF	ND	U	0.0000073	0.0000000 58	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HpCDD	0.0000013	J B ~~q Empc~~	0.0000073	0.0000000 55	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HpCDF	0.00000095	J ~~B~~	0.0000073	0.0000000 60	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-2,3,7,8-TCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*93*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-OCDD	*90*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*

Client Sample ID: OM-SS-12-5

Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35
Matrix: Solid
Percent Solids: 71.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000014		0.0000014	0.0000000 54	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,7,8-TCDF	0.00000026	J ~~q Empc~~	0.0000014	0.0000000 41	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8-PeCDD	0.0000068	J	0.0000070	0.0000002 0	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8-PeCDF	0.00000064	J	0.0000070	0.0000002 6	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,4,7,8-PeCDF	0.00000057	J	0.0000070	0.0000002 7	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8-HxCDD	0.000011		0.0000070	0.0000004 8	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,6,7,8-HxCDD	0.000056	~~B~~	0.0000070	0.0000004 4	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8,9-HxCDD	0.000032		0.0000070	0.0000003 8	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8-HxCDF	0.0000059	J ~~B~~	0.0000070	0.0000008 6	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,6,7,8-HxCDF	0.0000050	J	0.0000070	0.0000007 7	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8,9-HxCDF	ND	U	0.0000070	0.0000008 2	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,4,6,7,8-HxCDF	0.0000047	J	0.0000070	0.0000008 3	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,6,7,8-HpCDD	0.00075	~~B~~ J	0.0000070	0.0000042	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,6,7,8-HpCDF	0.00097	~~B~~	0.0000070	0.0000064	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8,9-HpCDF	ND	~~C~~ U	0.0000076	0.0000076	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
OCDD	0.0050	~~B~~	0.000014	0.0000019	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
OCDF	0.00044	~~B~~	0.000014	0.0000001 9	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1

Client Sample ID: OM-SS-12-5
Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35
Matrix: Solid
Percent Solids: 71.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	0.000029		0.0000014	0.00000054	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total TCDF	0.0000040	~~B~~ EMPC J	0.0000014	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total PeCDD	0.000076	~~B~~ EMPC J	0.0000070	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total PeCDF	0.000031		0.0000070	0.00000026	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HxCDD	0.00046	~~B~~	0.0000070	0.00000043	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HxCDF	0.00031	~~B~~	0.0000070	0.00000082	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HpCDD	0.0015	~~B~~	0.0000070	0.0000042	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HpCDF	0.0015	~~B~~	0.0000070	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	85		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-2,3,7,8-TCDF	87		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,7,8-PeCDD	84		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,7,8-PeCDF	89		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,6,7,8-HxCDD	88		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,4,7,8-HxCDF	92		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,4,6,7,8-HpCDD	85		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-1,2,3,4,6,7,8-HpCDF	86		40 - 135	07/11/16 14:06	08/23/16 11:02	1
13C-OCDD	73		40 - 135	07/11/16 14:06	08/23/16 11:02	1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-19659-2
TestAmerica Sample Delivery Group: ON HOLD
Client Project/Site: Mt. Shasta, Old Mill

For:
Weston Solutions, Inc.
1340 Treat Blvd., Suite 210
Walnut Creek, California 94597

Attn: Ms. Tara Fitzgerald

Linda C. Laver

Authorized for release by:
9/2/2016 11:00:22 AM

Linda C. Laver, Project Manager II
(916)374-4362
linda.laver@testamericainc.com

Table of Contents

Qualifiers

Dioxin

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
E	Result exceeded calibration range.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 320-19659-2

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative
320-19659-2

Comments
Samples were received on June 17, 2016, and several were placed on HOLD pending results form the samples to be analyzed. Due to heavy backlog in the lab at that time, TestAmerica extracted the samples for Method 8290 that were submitted on HOLD and held the extracts in case they would be requested. This was to ensure that the extraction would be performed within hold time. On August 17, 2016, TestAmerica was requested to analyze the extracts. This report contains the analytical results for these 8290 analyses only. All other data has been reported in Job 320-19659-1.

Receipt
The samples were received on 6/17/2016 1:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

Dioxin
Method(s) 8290A: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): OM-SS-14-5 (320-19659-18), OM-SS-11-5 (320-19659-26), OM-SS-10-5 (320-19659-28), OM-SS-09-5 (320-19659-31) and OM-SS-12-5 (320-19659-35) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method(s) 8290A: The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: OM-SS-04-5 (320-19659-15), OM-SS-11-5 (320-19659-26), OM-SS-10-5 (320-19659-28) and OM-SS-09-5 (320-19659-31). These peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range. The data has been reported with E flags.

Method(s) 8290A: The following analyte recovered slightly above the upper control limit for the laboratory control sample (LCS) associated with preparation batch 320-117366: 1,2,3,4,6,7,8-HpCDD. The data was evaluated and determined to be a random marginal exceedance and is not indicative of a systematic control problem. The data has been flagged and reported.

Method(s) 8290A: The precision (RPD) of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) associated with preparation batch 320-117366 was outside control limits for the following analyte: 1,2,3,4,6,7,8-HpCDD.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-01-5 — Lab Sample ID: 320-19659-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.00000024	J	0.0000014	0.00000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000000029	J q	0.0000071	0.00000027	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.000000027	J q	0.0000071	0.00000019	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.000000035	J q	0.0000071	0.00000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000000062	J	0.0000071	0.00000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00000010	J q B	0.0000071	0.00000022	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00000017	J	0.0000071	0.00000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.00000014	J B	0.0000071	0.00000033	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000000042	J	0.0000071	0.00000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.000033	B *	0.0000071	0.0000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00000038	J B	0.0000071	0.00000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000000050	J q B	0.0000071	0.00000027	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0000047	J B	0.000014	0.00000064	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00000020	J	0.0000014	0.00000022	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.00000032	J q	0.0000014	0.00000016	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000000029	J q	0.0000071	0.00000027	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000000061	J q	0.0000071	0.00000019	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00000058	J q B	0.0000071	0.00000021	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00000018	J B	0.0000071	0.00000032	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.000073	B	0.0000071	0.0000020	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0000015	J q B	0.0000071	0.00000025	mg/Kg	1	☼	8290A	Total/NA
OCDD - DL	0.051	B	0.00028	0.000049	mg/Kg	20	☼	8290A	Total/NA

Client Sample ID: OM-SS-02-5 — Lab Sample ID: 320-19659-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.00000011	J	0.0000067	0.00000042	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00000044	J B	0.0000067	0.00000038	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00000031	J	0.0000067	0.00000033	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000000089	J B	0.0000067	0.00000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000000051	J q	0.0000067	0.00000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0000041	J B *	0.0000067	0.00000014	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample ID: OM-SS-02-5 (Continued) — Lab Sample ID: 320-19659-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	0.0000028	J B	0.0000067	0.000000033	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.000038	B	0.000013	0.000000075	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0000016	J B	0.000013	0.000000032	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000000066	J q	0.0000067	0.000000046	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0000026	J B	0.0000067	0.000000038	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0000015	J q B	0.0000067	0.000000034	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0000074	B	0.0000067	0.00000014	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0000053	J B	0.0000067	0.000000037	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-06-5 — Lab Sample ID: 320-19659-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.00000012	J q	0.0000064	0.000000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00000089	J B	0.0000064	0.000000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00000031	J	0.0000064	0.000000028	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.00000022	J B	0.0000064	0.000000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.00000018	J	0.0000064	0.000000050	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.00000020	J	0.0000064	0.000000054	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.000024	B *	0.0000064	0.00000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.000022	B	0.0000064	0.00000014	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.00030	B	0.000013	0.00000023	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.000016	B	0.000013	0.000000033	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00000022	J q	0.0000013	0.000000023	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000000078	J q	0.0000013	0.000000014	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00000016	J	0.0000064	0.000000033	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00000089	J q	0.0000064	0.000000022	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0000042	J q B	0.0000064	0.000000032	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0000077	B	0.0000064	0.000000053	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.000043	B	0.0000064	0.00000020	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.000042	B	0.0000064	0.00000015	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-03-5 — Lab Sample ID: 320-19659-9

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000052	J	0.0000012	0.00000070	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000035	J	0.0000012	0.00000034	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000015	J	0.0000062	0.00000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000040	J q	0.0000062	0.00000017	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000056	J	0.0000062	0.00000018	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000038	J	0.0000062	0.00000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000037	B	0.0000062	0.00000022	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.0000082		0.0000062	0.00000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000036	J B	0.0000062	0.00000056	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000035	J	0.0000062	0.00000050	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000036	J	0.0000062	0.00000054	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00051	B *	0.0000062	0.0000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00042	B	0.0000062	0.0000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000043	J B	0.0000062	0.0000039	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0046	B	0.000012	0.0000032	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00021	B	0.000012	0.00000011	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000021	q	0.0000012	0.00000070	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000040		0.0000012	0.00000034	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000019	q	0.0000062	0.00000017	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000017	q	0.0000062	0.00000018	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00021	B	0.0000062	0.00000021	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00016	B	0.0000062	0.00000053	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.00093	B	0.0000062	0.0000032	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.00071	B	0.0000062	0.0000036	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-05-5 — Lab Sample ID: 320-19659-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	0.000000076	J B	0.0000076	0.00000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000000051	J q	0.0000076	0.00000028	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00000043	J B *	0.0000076	0.00000013	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0000031	J B	0.000015	0.00000058	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00000013	J q B	0.0000076	0.00000032	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-05-5 (Continued) — Lab Sample ID: 320-19659-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total HpCDD	0.00000067	J q B	0.0000076	0.00000013	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-07-5 — Lab Sample ID: 320-19659-13

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.000000063	J q	0.0000073	0.00000037	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00000046	J B	0.0000073	0.00000034	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00000023	J	0.0000073	0.00000029	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000000051	J q	0.0000073	0.00000034	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000000050	J	0.0000073	0.00000036	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0000078	B *	0.0000073	0.00000013	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0000038	J B	0.0000073	0.00000047	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.000095	B	0.000015	0.00000086	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0000026	J B	0.000015	0.00000060	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00000011	J	0.0000015	0.00000024	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000000093	J	0.0000073	0.00000022	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0000027	J q B	0.0000073	0.00000034	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0000015	J q B	0.0000073	0.00000036	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.000015	B	0.0000073	0.00000013	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0000068	J q B	0.0000073	0.00000052	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-04-5 — Lab Sample ID: 320-19659-15

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.00000050	J	0.0000016	0.00000068	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000035	J	0.0000016	0.00000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000028	J	0.0000082	0.00000089	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000079	J q	0.0000082	0.00000016	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000010	J	0.0000082	0.00000017	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000077	J	0.0000082	0.00000026	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000045	B	0.0000082	0.00000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000013		0.0000082	0.00000020	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-04-5 (Continued) — Lab Sample ID: 320-19659-15

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDF	0.0000058	J B	0.0000082	0.0000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000054	J	0.0000082	0.00000090	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000050	J	0.0000082	0.00000096	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00095	B *	0.0000082	0.0000070	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00062	B	0.0000082	0.0000037	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000078	J B	0.0000082	0.0000044	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0089	E B	0.000016	0.0000056	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00056	B	0.000016	0.00000021	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000013	q	0.0000016	0.00000068	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000067	q	0.0000016	0.00000014	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000020	q	0.0000082	0.00000089	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000033	q	0.0000082	0.00000017	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00024	B	0.0000082	0.00000024	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00029	B	0.0000082	0.00000095	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0017	B	0.0000082	0.0000070	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0012	B	0.0000082	0.0000040	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-15-5 — Lab Sample ID: 320-19659-17

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.00000044	J	0.0000014	0.00000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000000052	J	0.0000072	0.00000034	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000012	J	0.0000072	0.00000029	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.000000080	J q	0.0000072	0.00000030	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000000066	J q	0.0000072	0.00000025	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000000095	J B q	0.0000072	0.00000023	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000000073	J	0.0000072	0.00000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.00000021	J B	0.0000072	0.00000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.00000013	J	0.0000072	0.00000032	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	0.000000059	J q	0.0000072	0.00000034	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000000084	J	0.0000072	0.00000034	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0000012	J B *	0.0000072	0.00000041	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0000017	J B	0.0000072	0.00000043	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-15-5 (Continued) — Lab Sample ID: 320-19659-17

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8,9-HpCDF	0.00000024	J B	0.0000072	0.00000051	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.000015	B	0.000014	0.00000051	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0000043	J B	0.000014	0.00000039	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00000019	J q	0.0000014	0.00000025	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000015	q	0.0000014	0.00000023	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00000018	J q	0.0000072	0.00000034	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00000045	J q	0.0000072	0.00000029	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00000083	J B q	0.0000072	0.00000023	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00000076	J B q	0.0000072	0.00000034	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0000030	J B	0.0000072	0.00000041	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0000031	J B	0.0000072	0.00000047	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-14-5 — Lab Sample ID: 320-19659-18

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000098		0.0000013	0.00000079	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000022		0.0000067	0.00000040	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000022	J q	0.0000067	0.00000079	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000026	J	0.0000067	0.00000082	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000073		0.0000067	0.0000012	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00030	B	0.0000067	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000076		0.0000067	0.00000092	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000020	B	0.0000067	0.0000035	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000019		0.0000067	0.0000031	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000020		0.0000067	0.0000033	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0023	B G	0.000010	0.000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000027	B G	0.000012	0.000012	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0016	B	0.000013	0.00000051	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00031		0.0000013	0.00000079	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000020	q	0.0000013	0.00000018	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00018		0.0000067	0.00000040	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00011	q	0.0000067	0.00000081	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0015	B	0.0000067	0.0000011	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0011	B	0.0000067	0.0000033	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0044	B G	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-14-5 (Continued) — Lab Sample ID: 320-19659-18

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD - DL	0.0031	B *	0.000033	0.000021	mg/Kg	5	☼	8290A	Total/NA
OCDD - DL	0.020	B	0.000067	0.000013	mg/Kg	5	☼	8290A	Total/NA
Total HpCDD - DL	0.0053	B	0.000033	0.000021	mg/Kg	5	☼	8290A	Total/NA
2,3,7,8-TCDF - RA	0.00000086	J	0.0000013	0.00000024	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-13-5 — Lab Sample ID: 320-19659-21

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.00000035	J	0.0000020	0.00000046	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.00000073	J	0.000010	0.00000084	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000051	J q	0.000010	0.00000097	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000073	J	0.000010	0.00000010	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.0000013	J q	0.000010	0.00000012	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000011	B	0.000010	0.00000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.0000034	J	0.000010	0.00000091	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000027	J B q	0.000010	0.00000025	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000027	J	0.000010	0.00000023	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000026	J	0.000010	0.00000024	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00014	B *	0.000010	0.00000058	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00023	B	0.000010	0.00000088	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.0000018	J B	0.000010	0.0000011	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.00098	B	0.000020	0.00000042	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00010	B	0.000020	0.00000011	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.0000043	q	0.0000020	0.00000049	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000032	q	0.0000020	0.00000046	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.0000056	J q	0.000010	0.00000084	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000017	q	0.000010	0.00000099	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.000055	B q	0.000010	0.00000010	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00011	B q	0.000010	0.00000024	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.00025	B	0.000010	0.00000058	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.00038	B	0.000010	0.00000097	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-11-5 — Lab Sample ID: 320-19659-26

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000020		0.0000015	0.00000011	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.0000011	J	0.0000015	0.00000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000011		0.0000075	0.0000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000041		0.0000075	0.00000093	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00018	B	0.0000075	0.00000085	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000058		0.0000075	0.00000073	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000047	B G	0.0000087	0.0000087	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000036	G	0.0000078	0.0000078	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000031	G	0.0000084	0.0000084	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0026	B * G	0.000014	0.000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0055	E B G	0.000037	0.000037	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000092	B G	0.000045	0.000045	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.019	E B	0.000015	0.0000083	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0045	B	0.000015	0.0000012	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.000052		0.0000015	0.00000011	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000013	q	0.0000015	0.00000014	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00018		0.0000075	0.0000014	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00017	q	0.0000075	0.0000011	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0011	B	0.0000075	0.00000083	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0026	B G	0.0000083	0.0000083	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0047	B G	0.000014	0.000014	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.012	B G	0.000041	0.000041	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-10-5 — Lab Sample ID: 320-19659-28

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000053		0.0000017	0.00000051	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.0000017		0.0000017	0.00000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.000031		0.0000086	0.00000071	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000065	J	0.0000086	0.00000090	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000053	J	0.0000086	0.00000094	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000062		0.0000086	0.0000014	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00026	B	0.0000086	0.0000013	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00015		0.0000086	0.0000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000051	B	0.0000086	0.0000057	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.000062		0.0000086	0.0000052	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.000058		0.0000086	0.0000055	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0022	B * G	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0068	E B G	0.000045	0.000045	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-10-5 (Continued) — Lab Sample ID: 320-19659-28

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDD	0.0090	E B	0.000017	0.0000056	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.0024	B	0.000017	0.00000060	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00011		0.0000017	0.00000051	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000021	q	0.0000017	0.00000016	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.00036		0.0000086	0.00000071	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.00026		0.0000086	0.00000092	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0018	B	0.0000086	0.0000013	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.0027	B	0.0000086	0.0000055	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0038	B G	0.000011	0.000011	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.010	B G	0.000049	0.000049	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-09-5 — Lab Sample ID: 320-19659-31

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000024		0.0000015	0.00000028	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000033	J	0.0000015	0.00000085	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000066	J	0.0000073	0.00000041	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.0000017	J q	0.0000073	0.00000020	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.0000017	J	0.0000073	0.00000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000017		0.0000073	0.0000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00055	B	0.0000073	0.0000019	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000049		0.0000073	0.0000016	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.000014	B	0.0000073	0.0000029	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000073	0.0000026	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000054	J	0.0000073	0.0000028	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.0025	B * G	0.0000090	0.0000090	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.0015	B	0.0000073	0.0000060	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.000012	B	0.0000073	0.0000072	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0067	E B	0.000015	0.0000056	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00057	B	0.000015	0.00000027	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00029		0.0000015	0.00000028	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000051	q	0.0000015	0.00000085	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000088		0.0000073	0.00000041	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000040	q	0.0000073	0.00000020	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.0019	B	0.0000073	0.0000018	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00080	B	0.0000073	0.0000028	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0036	B G	0.0000090	0.0000090	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0027	B	0.0000073	0.0000066	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-08-5 — Lab Sample ID: 320-19659-33

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	0.000000023	J q	0.0000073	0.00000002	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.00000022	J B q	0.0000073	0.00000003	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.00000010	J q	0.0000073	0.00000003	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00000072	J B *	0.0000073	0.00000005	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00000053	J B	0.0000073	0.00000005	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0000098	J B	0.000015	0.00000004	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00000041	J B	0.000015	0.00000003	mg/Kg	1	☼	8290A	Total/NA
Total TCDD	0.00000011	J q	0.0000015	0.00000002	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.000000027	J q	0.0000015	0.00000001	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000000023	J q	0.0000073	0.00000002	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00000052	J B q	0.0000073	0.00000003	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0000013	J B q	0.0000073	0.00000005	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.00000095	J B	0.0000073	0.00000006	mg/Kg	1	☼	8290A	Total/NA

Client Sample ID: OM-SS-12-5 — Lab Sample ID: 320-19659-35

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.0000014		0.0000014	0.00000005	mg/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.00000026	J q	0.0000014	0.00000004	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	0.0000068	J	0.0000070	0.00000020	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	0.00000064	J	0.0000070	0.00000026	mg/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.00000057	J	0.0000070	0.00000027	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.000011		0.0000070	0.00000048	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.000056	B	0.0000070	0.00000044	mg/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.000032		0.0000070	0.00000038	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.0000059	J B	0.0000070	0.00000086	mg/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.0000050	J	0.0000070	0.00000077	mg/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.0000047	J	0.0000070	0.00000083	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.00075	B *	0.0000070	0.0000042	mg/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.00097	B	0.0000070	0.0000064	mg/Kg	1	☼	8290A	Total/NA
OCDD	0.0050	B	0.000014	0.0000019	mg/Kg	1	☼	8290A	Total/NA
OCDF	0.00044	B	0.000014	0.00000019	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-12-5 (Continued)

Lab Sample ID: 320-19659-35

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.000029		0.0000014	0.000000054	mg/Kg	1	☼	8290A	Total/NA
Total TCDF	0.0000040	q	0.0000014	0.000000041	mg/Kg	1	☼	8290A	Total/NA
Total PeCDD	0.000076	q	0.0000070	0.00000020	mg/Kg	1	☼	8290A	Total/NA
Total PeCDF	0.000031		0.0000070	0.00000026	mg/Kg	1	☼	8290A	Total/NA
Total HxCDD	0.00046	B	0.0000070	0.00000043	mg/Kg	1	☼	8290A	Total/NA
Total HxCDF	0.00031	B	0.0000070	0.00000082	mg/Kg	1	☼	8290A	Total/NA
Total HpCDD	0.0015	B	0.0000070	0.0000042	mg/Kg	1	☼	8290A	Total/NA
Total HpCDF	0.0015	B	0.0000070	0.0000070	mg/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: OM-SS-01-5
Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid
Percent Solids: 70.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000014	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,7,8-TCDF	**0.00000024**	**J**	0.0000014	0.0000000 16	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8-PeCDD	**).000000029**	**J q**	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8-PeCDF	**).000000027**	**J q**	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,4,7,8-PeCDF	**).000000035**	**J q**	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8-HxCDD	**).000000062**	**J**	0.0000071	0.0000000 24	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,6,7,8-HxCDD	**0.00000010**	**J q B**	0.0000071	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8,9-HxCDD	**0.00000017**	**J**	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8-HxCDF	**0.00000014**	**J B**	0.0000071	0.0000000 33	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,6,7,8-HxCDF	ND		0.0000071	0.0000000 30	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,7,8,9-HxCDF	ND		0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
2,3,4,6,7,8-HxCDF	**).000000042**	**J**	0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,6,7,8-HpCDD	**0.000033**	**B ***	0.0000071	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,6,7,8-HpCDF	**0.00000038**	**J B**	0.0000071	0.0000000 23	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
1,2,3,4,7,8,9-HpCDF	**).000000050**	**J q B**	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
OCDF	**0.0000047**	**J B**	0.000014	0.0000000 64	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total TCDD	**0.00000020**	**J**	0.0000014	0.0000000 22	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total TCDF	**0.00000032**	**J q**	0.0000014	0.0000000 16	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total PeCDD	**).000000029**	**J q**	0.0000071	0.0000000 27	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total PeCDF	**).000000061**	**J q**	0.0000071	0.0000000 19	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HxCDD	**0.00000058**	**J q B**	0.0000071	0.0000000 21	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HxCDF	**0.00000018**	**J B**	0.0000071	0.0000000 32	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HpCDD	**0.000073**	**B**	0.0000071	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1
Total HpCDF	**0.0000015**	**J q B**	0.0000071	0.0000000 25	mg/Kg	☼	07/11/16 14:06	08/22/16 20:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,7,8-PeCDF	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 20:46*	*1*

Client Sample ID: OM-SS-01-5

Lab Sample ID: 320-19659-2
Date Collected: 06/16/16 08:10
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 70.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135	07/11/16 14:06	08/22/16 20:46	1
13C-OCDD	77		40 - 135	07/11/16 14:06	08/22/16 20:46	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	0.051	B	0.00028	0.000049	mg/Kg	☼	07/11/16 14:06	08/23/16 20:09	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	80		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-2,3,7,8-TCDF	88		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,7,8-PeCDD	82		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,7,8-PeCDF	89		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,6,7,8-HxCDD	87		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,7,8-HxCDF	89		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,6,7,8-HpCDD	103		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-1,2,3,4,6,7,8-HpCDF	106		40 - 135	07/11/16 14:06	08/23/16 20:09	20
13C-OCDD	107		40 - 135	07/11/16 14:06	08/23/16 20:09	20

Client Sample ID: OM-SS-02-5

Lab Sample ID: 320-19659-4
Date Collected: 06/16/16 08:56
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 74.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000013	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,7,8-TCDF	ND		0.0000013	0.00000019	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8-PeCDD	ND		0.0000067	0.00000046	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8-PeCDF	ND		0.0000067	0.00000023	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,4,7,8-PeCDF	ND		0.0000067	0.00000024	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8-HxCDD	0.00000011	J	0.0000067	0.00000042	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,6,7,8-HxCDD	0.00000044	J B	0.0000067	0.00000038	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8,9-HxCDD	0.00000031	J	0.0000067	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8-HxCDF	).000000089	J B	0.0000067	0.00000035	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,6,7,8-HxCDF	).000000051	J q	0.0000067	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,7,8,9-HxCDF	ND		0.0000067	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
2,3,4,6,7,8-HxCDF	ND		0.0000067	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,6,7,8-HpCDD	0.0000041	J B *	0.0000067	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,6,7,8-HpCDF	0.0000028	J B	0.0000067	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000067	0.00000040	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1

Client Sample ID: OM-SS-02-5

Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4

Matrix: Solid
Percent Solids: 74.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	**0.000038**	**B**	0.000013	0.000000075	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
OCDF	**0.0000016**	**J B**	0.000013	0.000000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total TCDD	ND		0.0000013	0.000000032	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total TCDF	ND		0.0000013	0.000000019	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total PeCDD	**).000000066**	**J q**	0.0000067	0.000000046	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total PeCDF	ND		0.0000067	0.000000024	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HxCDD	**0.0000026**	**J B**	0.0000067	0.000000038	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HxCDF	**0.0000015**	**J q B**	0.0000067	0.000000034	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HpCDD	**0.0000074**	**B**	0.0000067	0.0000001 4	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1
Total HpCDF	**0.0000053**	**J B**	0.0000067	0.000000037	mg/Kg	☼	07/11/16 14:06	08/22/16 21:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,7,8-PeCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*
13C-OCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/22/16 21:32*	*1*

Client Sample ID: OM-SS-06-5

Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7

Matrix: Solid
Percent Solids: 77.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000013	0.000000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,7,8-TCDF	ND		0.0000013	0.000000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8-PeCDD	ND		0.0000064	0.000000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8-PeCDF	ND		0.0000064	0.000000021	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,4,7,8-PeCDF	ND		0.0000064	0.000000022	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,7,8-HxCDD	**0.00000012**	**J q**	0.0000064	0.000000035	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,6,7,8-HxCDD	**0.00000089**	**J B**	0.0000064	0.000000032	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8,9-HxCDD	**0.00000031**	**J**	0.0000064	0.000000028	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1

Client Sample ID: OM-SS-06-5

Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7

Matrix: Solid
Percent Solids: 77.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDF	0.00000022	J B	0.0000064	0.00000055	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,6,7,8-HxCDF	0.00000018	J	0.0000064	0.00000050	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,7,8,9-HxCDF	ND		0.0000064	0.00000053	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
2,3,4,6,7,8-HxCDF	0.00000020	J	0.0000064	0.00000054	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,6,7,8-HpCDD	0.000024	B *	0.0000064	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,6,7,8-HpCDF	0.000022	B	0.0000064	0.0000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000064	0.0000017	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
OCDD	0.00030	B	0.000013	0.0000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
OCDF	0.000016	B	0.000013	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total TCDD	0.00000022	J q	0.0000013	0.00000023	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total TCDF	.000000078	J q	0.0000013	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total PeCDD	0.00000016	J	0.0000064	0.00000033	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total PeCDF	0.00000089	J q	0.0000064	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HxCDD	0.0000042	J q B	0.0000064	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HxCDF	0.0000077	B	0.0000064	0.00000053	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HpCDD	0.000043	B	0.0000064	0.0000020	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1
Total HpCDF	0.000042	B	0.0000064	0.0000015	mg/Kg	☼	07/11/16 14:06	08/22/16 22:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,7,8-PeCDD	*82*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,7,8-PeCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*93*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*
13C-OCDD	*80*		*40 - 135*	*07/11/16 14:06*	*08/22/16 22:17*	*1*

Client Sample ID: OM-SS-03-5

Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9

Matrix: Solid
Percent Solids: 79.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000052	J	0.0000012	0.00000070	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1

Client Sample ID: OM-SS-03-5
Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9
Matrix: Solid
Percent Solids: 79.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000035	J	0.0000012	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8-PeCDD	0.0000015	J	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8-PeCDF	0.00000040	J q	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
2,3,4,7,8-PeCDF	0.00000056	J	0.0000062	0.0000001 8	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8-HxCDD	0.0000038	J	0.0000062	0.0000002 4	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,6,7,8-HxCDD	0.000037	B	0.0000062	0.0000002 2	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8,9-HxCDD	0.0000082		0.0000062	0.0000001 9	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8-HxCDF	0.0000036	J B	0.0000062	0.0000005 6	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,6,7,8-HxCDF	0.0000035	J	0.0000062	0.0000005 0	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,7,8,9-HxCDF	ND		0.0000062	0.0000005 3	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
2,3,4,6,7,8-HxCDF	0.0000036	J	0.0000062	0.0000005 4	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,6,7,8-HpCDD	0.00051	B *	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,6,7,8-HpCDF	0.00042	B	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
1,2,3,4,7,8,9-HpCDF	0.0000043	J B	0.0000062	0.0000039	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
OCDD	0.0046	B	0.000012	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
OCDF	0.00021	B	0.000012	0.0000001 1	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total TCDD	0.000021	q	0.0000012	0.0000000 70	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total TCDF	0.0000040		0.0000012	0.0000000 34	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total PeCDD	0.000019	q	0.0000062	0.0000001 7	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total PeCDF	0.000017	q	0.0000062	0.0000001 8	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HxCDD	0.00021	B	0.0000062	0.0000002 1	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HxCDF	0.00016	B	0.0000062	0.0000005 3	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HpCDD	0.00093	B	0.0000062	0.0000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1
Total HpCDF	0.00071	B	0.0000062	0.0000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*
13C-OCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:03*	*1*

Client Sample ID: OM-SS-05-5
Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid
Percent Solids: 65.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000015	0.00000021	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,7,8-TCDF	ND		0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8-PeCDD	ND		0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8-PeCDF	ND		0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,4,7,8-PeCDF	ND		0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8-HxCDD	ND		0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,6,7,8-HxCDD	**).000000076**	**J B**	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8,9-HxCDD	**).000000051**	**J q**	0.0000076	0.00000028	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8-HxCDF	ND		0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,6,7,8-HxCDF	ND		0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,7,8,9-HxCDF	ND		0.0000076	0.00000034	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
2,3,4,6,7,8-HxCDF	ND		0.0000076	0.00000035	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,6,7,8-HpCDD	**0.00000043**	**J B ***	0.0000076	0.000000013	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,6,7,8-HpCDF	ND		0.0000076	0.000000012	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000076	0.000000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
OCDD	**0.0000031**	**J B**	0.000015	0.00000058	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
OCDF	ND		0.000015	0.000000018	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total TCDD	ND		0.0000015	0.00000021	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total TCDF	ND		0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total PeCDD	ND		0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total PeCDF	ND		0.0000076	0.00000022	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HxCDD	**0.00000013**	**J q B**	0.0000076	0.00000032	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HxCDF	ND		0.0000076	0.00000036	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HpCDD	**0.00000067**	**J q B**	0.0000076	0.000000013	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1
Total HpCDF	ND		0.0000076	0.000000014	mg/Kg	☼	07/11/16 14:06	08/22/16 23:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-2,3,7,8-TCDF	*92*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,7,8-PeCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*

Client Sample ID: OM-SS-05-5

Lab Sample ID: 320-19659-11
Date Collected: 06/16/16 09:52
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 65.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*95*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*
13C-OCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 23:49*	*1*

Client Sample ID: OM-SS-07-5

Lab Sample ID: 320-19659-13
Date Collected: 06/16/16 10:07
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000015	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,7,8-TCDF	ND		0.0000015	0.00000015	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8-PeCDD	ND		0.0000073	0.00000039	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8-PeCDF	ND		0.0000073	0.00000021	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,4,7,8-PeCDF	ND		0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8-HxCDD	**).000000063**	**J q**	0.0000073	0.00000037	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,6,7,8-HxCDD	**0.00000046**	**J B**	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8,9-HxCDD	**0.00000023**	**J**	0.0000073	0.00000029	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8-HxCDF	ND		0.0000073	0.00000037	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,6,7,8-HxCDF	**).000000051**	**J q**	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,7,8,9-HxCDF	ND		0.0000073	0.00000036	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
2,3,4,6,7,8-HxCDF	**).000000050**	**J**	0.0000073	0.00000036	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,6,7,8-HpCDD	**0.0000078**	**B ***	0.0000073	0.00000013	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,6,7,8-HpCDF	**0.0000038**	**J B**	0.0000073	0.00000047	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000073	0.00000057	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
OCDD	**0.000095**	**B**	0.000015	0.00000086	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
OCDF	**0.0000026**	**J B**	0.000015	0.00000060	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total TCDD	**0.00000011**	**J**	0.0000015	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total TCDF	ND		0.0000015	0.00000015	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total PeCDD	ND		0.0000073	0.00000039	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total PeCDF	**).000000093**	**J**	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1

Client Sample ID: OM-SS-07-5

Lab Sample ID: 320-19659-13
Date Collected: 06/16/16 10:07
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDD	0.0000027	J q B	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HxCDF	0.0000015	J q B	0.0000073	0.00000036	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HpCDD	0.000015	B	0.0000073	0.00000013	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1
Total HpCDF	0.0000068	J q B	0.0000073	0.00000052	mg/Kg	☼	07/11/16 14:06	08/23/16 00:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-2,3,7,8-TCDF	*72*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,7,8-HxCDF	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*80*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*
13C-OCDD	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 00:35*	*1*

Client Sample ID: OM-SS-04-5

Lab Sample ID: 320-19659-15
Date Collected: 06/16/16 10:25
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 60.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.00000050	J	0.0000016	0.00000068	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,7,8-TCDF	0.00000035	J	0.0000016	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8-PeCDD	0.0000028	J	0.0000082	0.00000089	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8-PeCDF	0.00000079	J q	0.0000082	0.00000016	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,4,7,8-PeCDF	0.0000010	J	0.0000082	0.00000017	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8-HxCDD	0.0000077	J	0.0000082	0.00000026	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,6,7,8-HxCDD	0.000045	B	0.0000082	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8,9-HxCDD	0.000013		0.0000082	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8-HxCDF	0.0000058	J B	0.0000082	0.0000010	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,6,7,8-HxCDF	0.0000054	J	0.0000082	0.00000090	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,7,8,9-HxCDF	ND		0.0000082	0.00000095	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
2,3,4,6,7,8-HxCDF	0.0000050	J	0.0000082	0.00000096	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,6,7,8-HpCDD	0.00095	B *	0.0000082	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,6,7,8-HpCDF	0.00062	B	0.0000082	0.0000037	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
1,2,3,4,7,8,9-HpCDF	0.0000078	J B	0.0000082	0.0000044	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
OCDD	0.0089	E B	0.000016	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1

Client Sample ID: OM-SS-04-5

Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15

Matrix: Solid
Percent Solids: 60.9

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	0.00056	B	0.000016	0.00000021	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total TCDD	0.000013	q	0.0000016	0.00000068	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total TCDF	0.0000067	q	0.0000016	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total PeCDD	0.000020	q	0.0000082	0.00000089	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total PeCDF	0.000033	q	0.0000082	0.00000017	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HxCDD	0.00024	B	0.0000082	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HxCDF	0.00029	B	0.0000082	0.00000095	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HpCDD	0.0017	B	0.0000082	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1
Total HpCDF	0.0012	B	0.0000082	0.0000040	mg/Kg	☼	07/11/16 14:06	08/23/16 04:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,7,8-PeCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,7,8-PeCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,6,7,8-HxCDD	*93*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,7,8-HxCDF	*98*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*78*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*
13C-OCDD	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 04:55*	*1*

Client Sample ID: OM-SS-15-5

Date Collected: 06/16/16 10:36
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-17

Matrix: Solid
Percent Solids: 68.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000014	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,7,8-TCDF	0.00000044	J	0.0000014	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8-PeCDD	.000000052	J	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8-PeCDF	0.00000012	J	0.0000072	0.00000029	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,4,7,8-PeCDF	.000000080	J q	0.0000072	0.00000030	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8-HxCDD	.000000066	J q	0.0000072	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,6,7,8-HxCDD	.000000095	J B q	0.0000072	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,7,8,9-HxCDD	.000000073	J	0.0000072	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8-HxCDF	0.00000021	J B	0.0000072	0.00000035	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,6,7,8-HxCDF	0.00000013	J	0.0000072	0.00000032	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1

Client Sample ID: OM-SS-15-5

Lab Sample ID: 320-19659-17

Date Collected: 06/16/16 10:36
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	.000000059	J q	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
2,3,4,6,7,8-HxCDF	.000000084	J	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,6,7,8-HpCDD	0.0000012	J B *	0.0000072	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,6,7,8-HpCDF	0.0000017	J B	0.0000072	0.00000043	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
1,2,3,4,7,8,9-HpCDF	0.00000024	J B	0.0000072	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
OCDD	0.000015	B	0.000014	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
OCDF	0.0000043	J B	0.000014	0.00000039	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total TCDD	0.00000019	J q	0.0000014	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total TCDF	0.0000015	q	0.0000014	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total PeCDD	0.00000018	J q	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total PeCDF	0.00000045	J q	0.0000072	0.00000029	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HxCDD	0.00000083	J B q	0.0000072	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HxCDF	0.00000076	J B q	0.0000072	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HpCDD	0.0000030	J B	0.0000072	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1
Total HpCDF	0.0000031	J B	0.0000072	0.00000047	mg/Kg	☼	07/11/16 14:06	08/23/16 05:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-2,3,7,8-TCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,6,7,8-HxCDD	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*
13C-OCDD	*75*		*40 - 135*	*07/11/16 14:06*	*08/23/16 05:41*	*1*

Client Sample ID: OM-SS-14-5

Lab Sample ID: 320-19659-18

Date Collected: 06/16/16 10:42
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 74.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000098		0.0000013	0.00000079	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8-PeCDD	0.000022		0.0000067	0.00000040	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8-PeCDF	0.0000022	J q	0.0000067	0.00000079	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1

Client Sample ID: OM-SS-14-5
Date Collected: 06/16/16 10:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-18
Matrix: Solid
Percent Solids: 74.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.0000026	J	0.0000067	0.00000082	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8-HxCDD	0.000073		0.0000067	0.0000012	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,6,7,8-HxCDD	0.00030	B	0.0000067	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8,9-HxCDD	0.000076		0.0000067	0.00000092	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8-HxCDF	0.000020	B	0.0000067	0.0000035	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,6,7,8-HxCDF	0.000019		0.0000067	0.0000031	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,7,8,9-HxCDF	ND		0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
2,3,4,6,7,8-HxCDF	0.000020		0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,6,7,8-HpCDF	0.0023	B G	0.000010	0.000010	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
1,2,3,4,7,8,9-HpCDF	0.000027	B G	0.000012	0.000012	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
OCDF	0.0016	B	0.000013	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total TCDD	0.00031		0.0000013	0.00000079	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total TCDF	0.000020	q	0.0000013	0.00000018	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total PeCDD	0.00018		0.0000067	0.00000040	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total PeCDF	0.00011	q	0.0000067	0.00000081	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HxCDD	0.0015	B	0.0000067	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HxCDF	0.0011	B	0.0000067	0.0000033	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1
Total HpCDF	0.0044	B G	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 06:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*78*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,7,8-PeCDF	*82*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,4,7,8-HxCDF	*83*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*
13C-OCDD	*72*		*40 - 135*	*07/11/16 14:06*	*08/23/16 06:26*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	0.0031	B *	0.000033	0.000021	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5
OCDD	0.020	B	0.000067	0.000013	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5
Total HpCDD	0.0053	B	0.000033	0.000021	mg/Kg	☼	07/11/16 14:06	08/23/16 19:23	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*81*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,6,7,8-HxCDD	*82*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-1,2,3,4,6,7,8-HpCDF	*100*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*
13C-OCDD	*93*		*40 - 135*	*07/11/16 14:06*	*08/23/16 19:23*	*5*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.00000086	J	0.0000013	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 18:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 18:55*	*1*

Client Sample ID: OM-SS-13-5

Date Collected: 06/16/16 10:57
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-21

Matrix: Solid
Percent Solids: 49.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000020	0.00000049	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,7,8-TCDF	0.00000035	J	0.0000020	0.00000046	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8-PeCDD	0.00000073	J	0.000010	0.00000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8-PeCDF	0.00000051	J q	0.000010	0.00000097	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,4,7,8-PeCDF	0.00000073	J	0.000010	0.00000010	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8-HxCDD	0.0000013	J q	0.000010	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,6,7,8-HxCDD	0.000011	B	0.000010	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8,9-HxCDD	0.0000034	J	0.000010	0.00000091	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8-HxCDF	0.0000027	J B q	0.000010	0.00000025	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,6,7,8-HxCDF	0.0000027	J	0.000010	0.00000023	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,7,8,9-HxCDF	ND		0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
2,3,4,6,7,8-HxCDF	0.0000026	J	0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,6,7,8-HpCDD	0.00014	B *	0.000010	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,6,7,8-HpCDF	0.00023	B	0.000010	0.00000088	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
1,2,3,4,7,8,9-HpCDF	0.0000018	J B	0.000010	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
OCDD	0.00098	B	0.000020	0.00000042	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
OCDF	0.00010	B	0.000020	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total TCDD	0.0000043	q	0.0000020	0.00000049	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total TCDF	0.0000032	q	0.0000020	0.00000046	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total PeCDD	0.0000056	J q	0.000010	0.00000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total PeCDF	0.000017	q	0.000010	0.00000099	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HxCDD	0.000055	B q	0.000010	0.00000010	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HxCDF	0.00011	B q	0.000010	0.00000024	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1
Total HpCDD	0.00025	B	0.000010	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1

Client Sample ID: OM-SS-13-5

Lab Sample ID: 320-19659-21

Date Collected: 06/16/16 10:57
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 49.7

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HpCDF	0.00038	B	0.000010	0.00000097	mg/Kg	☼	07/11/16 14:06	08/23/16 07:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,7,8-PeCDD	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*76*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*82*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*66*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*
13C-OCDD	*50*		*40 - 135*	*07/11/16 14:06*	*08/23/16 07:12*	*1*

Client Sample ID: OM-SS-11-5

Lab Sample ID: 320-19659-26

Date Collected: 06/16/16 11:44
Date Received: 06/17/16 13:50

Matrix: Solid
Percent Solids: 66.8

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000020		0.0000015	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,7,8-TCDF	0.0000011	J	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8-PeCDD	0.000011		0.0000075	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,4,7,8-PeCDF	0.0000032	J	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8-HxCDD	0.000041		0.0000075	0.00000093	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,6,7,8-HxCDD	0.00018	B	0.0000075	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8,9-HxCDD	0.000058		0.0000075	0.00000073	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8-HxCDF	0.000047	B G	0.0000087	0.0000087	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,6,7,8-HxCDF	0.000036	G	0.0000078	0.0000078	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,7,8,9-HxCDF	ND	G	0.0000083	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
2,3,4,6,7,8-HxCDF	0.000031	G	0.0000084	0.0000084	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,6,7,8-HpCDD	0.0026	B * G	0.000014	0.000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,6,7,8-HpCDF	0.0055	E B G	0.000037	0.000037	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
1,2,3,4,7,8,9-HpCDF	0.000092	B G	0.000045	0.000045	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
OCDD	0.019	E B	0.000015	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
OCDF	0.0045	B	0.000015	0.0000012	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total TCDD	0.000052		0.0000015	0.00000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total TCDF	0.000013	q	0.0000015	0.00000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total PeCDD	0.00018		0.0000075	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total PeCDF	0.00017	q	0.0000075	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HxCDD	0.0011	B	0.0000075	0.00000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HxCDF	0.0026	B G	0.0000083	0.0000083	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HpCDD	0.0047	B G	0.000014	0.000014	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1
Total HpCDF	0.012	B G	0.000041	0.000041	mg/Kg	☼	07/11/16 14:06	08/23/16 07:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-2,3,7,8-TCDF	62		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,7,8-PeCDD	58		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,7,8-PeCDF	62		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,6,7,8-HxCDD	63		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,7,8-HxCDF	64		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,6,7,8-HpCDD	56		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-1,2,3,4,6,7,8-HpCDF	56		40 - 135	07/11/16 14:06	08/23/16 07:58	1
13C-OCDD	51		40 - 135	07/11/16 14:06	08/23/16 07:58	1

Client Sample ID: OM-SS-10-5

Date Collected: 06/16/16 11:51
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-28

Matrix: Solid
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000053		0.0000017	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,7,8-TCDF	0.0000017		0.0000017	0.00000016	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8-PeCDD	0.000031		0.0000086	0.00000071	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8-PeCDF	0.0000065	J	0.0000086	0.00000090	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,4,7,8-PeCDF	0.0000053	J	0.0000086	0.00000094	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8-HxCDD	0.000062		0.0000086	0.0000014	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,6,7,8-HxCDD	0.00026	B	0.0000086	0.0000013	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8,9-HxCDD	0.00015		0.0000086	0.0000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8-HxCDF	0.000051	B	0.0000086	0.0000057	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,6,7,8-HxCDF	0.000062		0.0000086	0.0000052	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,7,8,9-HxCDF	ND		0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
2,3,4,6,7,8-HxCDF	0.000058		0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,6,7,8-HpCDD	0.0022	B * G	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,6,7,8-HpCDF	0.0068	E B G	0.000045	0.000045	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
1,2,3,4,7,8,9-HpCDF	ND	G	0.000054	0.000054	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
OCDD	0.0090	E B	0.000017	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
OCDF	0.0024	B	0.000017	0.00000060	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total TCDD	0.00011		0.0000017	0.00000051	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total TCDF	0.000021	q	0.0000017	0.00000016	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total PeCDD	0.00036		0.0000086	0.00000071	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total PeCDF	0.00026		0.0000086	0.00000092	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HxCDD	0.0018	B	0.0000086	0.0000013	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HxCDF	0.0027	B	0.0000086	0.0000055	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HpCDD	0.0038	B G	0.000011	0.000011	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1
Total HpCDF	0.010	B G	0.000049	0.000049	mg/Kg	☼	07/11/16 14:06	08/23/16 08:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	77		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-2,3,7,8-TCDF	83		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,7,8-PeCDD	78		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,7,8-PeCDF	83		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,6,7,8-HxCDD	85		40 - 135	07/11/16 14:06	08/23/16 08:44	1

Client Sample ID: OM-SS-10-5

Lab Sample ID: 320-19659-28
Date Collected: 06/16/16 11:51
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 58.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	86		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-1,2,3,4,6,7,8-HpCDF	78		40 - 135	07/11/16 14:06	08/23/16 08:44	1
13C-OCDD	73		40 - 135	07/11/16 14:06	08/23/16 08:44	1

Client Sample ID: OM-SS-09-5

Lab Sample ID: 320-19659-31
Date Collected: 06/16/16 12:09
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.0000024		0.0000015	0.00000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,7,8-TCDF	0.00000033	J	0.0000015	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8-PeCDD	0.0000066	J	0.0000073	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8-PeCDF	0.0000017	J q	0.0000073	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,4,7,8-PeCDF	0.0000017	J	0.0000073	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8-HxCDD	0.000017		0.0000073	0.0000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,6,7,8-HxCDD	0.00055	B	0.0000073	0.0000019	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8,9-HxCDD	0.000049		0.0000073	0.0000016	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8-HxCDF	0.000014	B	0.0000073	0.0000029	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,6,7,8-HxCDF	0.0000067	J	0.0000073	0.0000026	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,7,8,9-HxCDF	ND		0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
2,3,4,6,7,8-HxCDF	0.0000054	J	0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,6,7,8-HpCDD	0.0025	B * G	0.0000090	0.0000090	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,6,7,8-HpCDF	0.0015	B	0.0000073	0.0000060	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
1,2,3,4,7,8,9-HpCDF	0.000012	B	0.0000073	0.0000072	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
OCDD	0.0067	E B	0.000015	0.0000056	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
OCDF	0.00057	B	0.000015	0.00000027	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total TCDD	0.00029		0.0000015	0.00000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total TCDF	0.0000051	q	0.0000015	0.00000085	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total PeCDD	0.000088		0.0000073	0.0000041	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total PeCDF	0.000040	q	0.0000073	0.0000020	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HxCDD	0.0019	B	0.0000073	0.0000018	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HxCDF	0.00080	B	0.0000073	0.0000028	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HpCDD	0.0036	B G	0.0000090	0.0000090	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1
Total HpCDF	0.0027	B	0.0000073	0.0000066	mg/Kg	☼	07/11/16 14:06	08/23/16 09:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	82		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-2,3,7,8-TCDF	86		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,7,8-PeCDD	79		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,7,8-PeCDF	85		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,6,7,8-HxCDD	84		40 - 135	07/11/16 14:06	08/23/16 09:30	1

Client Sample ID: OM-SS-09-5

Lab Sample ID: 320-19659-31
Date Collected: 06/16/16 12:09
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDF	83		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,4,6,7,8-HpCDD	89		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-1,2,3,4,6,7,8-HpCDF	86		40 - 135	07/11/16 14:06	08/23/16 09:30	1
13C-OCDD	84		40 - 135	07/11/16 14:06	08/23/16 09:30	1

Client Sample ID: OM-SS-08-5

Lab Sample ID: 320-19659-33
Date Collected: 06/16/16 12:25
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 68.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000015	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,7,8-TCDF	ND		0.0000015	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8-PeCDD	ND		0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8-PeCDF	**).000000023**	**J q**	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,4,7,8-PeCDF	ND		0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8-HxCDD	ND		0.0000073	0.00000038	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,6,7,8-HxCDD	**0.00000022**	**J B q**	0.0000073	0.00000035	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8,9-HxCDD	**0.00000010**	**J q**	0.0000073	0.00000030	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8-HxCDF	ND		0.0000073	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,6,7,8-HxCDF	ND		0.0000073	0.00000052	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,7,8,9-HxCDF	ND		0.0000073	0.00000056	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
2,3,4,6,7,8-HxCDF	ND		0.0000073	0.00000056	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,6,7,8-HpCDD	**0.00000072**	**J B ***	0.0000073	0.00000055	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,6,7,8-HpCDF	**0.00000053**	**J B**	0.0000073	0.00000054	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
1,2,3,4,7,8,9-HpCDF	ND		0.0000073	0.00000065	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
OCDD	**0.0000098**	**J B**	0.000015	0.00000042	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
OCDF	**0.00000041**	**J B**	0.000015	0.00000032	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total TCDD	**0.00000011**	**J q**	0.0000015	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total TCDF	**).000000027**	**J q**	0.0000015	0.00000012	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total PeCDD	ND		0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total PeCDF	**).000000023**	**J q**	0.0000073	0.00000022	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HxCDD	**0.00000052**	**J B q**	0.0000073	0.00000034	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1

Client Sample ID: OM-SS-08-5

Date Collected: 06/16/16 12:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-33

Matrix: Solid
Percent Solids: 68.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HxCDF	ND		0.0000073	0.00000058	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HpCDD	**0.0000013**	**J B q**	0.0000073	0.00000055	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1
Total HpCDF	**0.00000095**	**J B**	0.0000073	0.00000060	mg/Kg	☼	07/11/16 14:06	08/23/16 10:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-2,3,7,8-TCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,7,8-PeCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*93*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*
13C-OCDD	*90*		*40 - 135*	*07/11/16 14:06*	*08/23/16 10:16*	*1*

Client Sample ID: OM-SS-12-5

Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35

Matrix: Solid
Percent Solids: 71.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**0.0000014**		0.0000014	0.00000054	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,7,8-TCDF	**0.00000026**	**J q**	0.0000014	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8-PeCDD	**0.0000068**	**J**	0.0000070	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8-PeCDF	**0.00000064**	**J**	0.0000070	0.00000026	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,4,7,8-PeCDF	**0.00000057**	**J**	0.0000070	0.00000027	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8-HxCDD	**0.000011**		0.0000070	0.00000048	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,6,7,8-HxCDD	**0.000056**	**B**	0.0000070	0.00000044	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8,9-HxCDD	**0.000032**		0.0000070	0.00000038	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8-HxCDF	**0.0000059**	**J B**	0.0000070	0.00000086	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,6,7,8-HxCDF	**0.0000050**	**J**	0.0000070	0.00000077	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,7,8,9-HxCDF	ND		0.0000070	0.00000082	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
2,3,4,6,7,8-HxCDF	**0.0000047**	**J**	0.0000070	0.00000083	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,6,7,8-HpCDD	**0.00075**	**B ***	0.0000070	0.0000042	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,6,7,8-HpCDF	**0.00097**	**B**	0.0000070	0.0000064	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
1,2,3,4,7,8,9-HpCDF	ND	G	0.0000076	0.0000076	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
OCDD	**0.0050**	**B**	0.000014	0.0000019	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
OCDF	**0.00044**	**B**	0.000014	0.00000019	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-12-5
Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35
Matrix: Solid
Percent Solids: 71.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	0.000029		0.0000014	0.00000054	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total TCDF	0.0000040	q	0.0000014	0.00000041	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total PeCDD	0.000076	q	0.0000070	0.00000020	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total PeCDF	0.000031		0.0000070	0.00000026	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HxCDD	0.00046	B	0.0000070	0.00000043	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HxCDF	0.00031	B	0.0000070	0.00000082	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HpCDD	0.0015	B	0.0000070	0.0000042	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1
Total HpCDF	0.0015	B	0.0000070	0.0000070	mg/Kg	☼	07/11/16 14:06	08/23/16 11:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,7,8-PeCDD	*84*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,4,7,8-HxCDF	*92*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*86*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*
13C-OCDD	*73*		*40 - 135*	*07/11/16 14:06*	*08/23/16 11:02*	*1*

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF1 (40-135)	HxCDD2 (40-135)	HxCDF1 (40-135)	HpCDD (40-135)	HpCDF1 (40-135)
320-19659-2	OM-SS-01-5	84	90	89	90	86	89	91	91
320-19659-2 - DL	OM-SS-01-5	80	88	82	89	87	89	103	106
320-19659-4	OM-SS-02-5	76	83	81	84	85	86	88	91
320-19659-7	OM-SS-06-5	84	87	82	86	90	90	88	93
320-19659-9	OM-SS-03-5	81	84	83	85	86	86	89	91
320-19659-11	OM-SS-05-5	86	92	89	91	91	91	94	95
320-19659-13	OM-SS-07-5	70	72	67	71	73	75	80	78
320-19659-15	OM-SS-04-5	84	85	84	87	93	98	78	83
320-19659-17	OM-SS-15-5	81	86	80	85	89	88	84	84
320-19659-18	OM-SS-14-5	78	83	77	82	86	83	84	87
320-19659-18 - DL	OM-SS-14-5	81	87	77	85	82	80	95	100
320-19659-18 - RA	OM-SS-14-5		87						
320-19659-21	OM-SS-13-5	70	69	74	74	76	82	63	66
320-19659-26	OM-SS-11-5	59	62	58	62	63	64	56	56
320-19659-28	OM-SS-10-5	77	83	78	83	85	86	80	78
320-19659-31	OM-SS-09-5	82	86	79	85	84	83	89	86
320-19659-33	OM-SS-08-5	85	89	85	89	88	91	95	93
320-19659-35	OM-SS-12-5	85	87	84	89	88	92	85	86
LCS 320-117366/2-A	Lab Control Sample	79	81	81	82	79	83	86	87
LCSD 320-117366/3-A	Lab Control Sample Dup	73	76	77	79	81	86	91	93
MB 320-117366/1-A	Method Blank	82	85	84	87	82	84	82	84

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OCDD (40-135)							
320-19659-2	OM-SS-01-5	77							
320-19659-2 - DL	OM-SS-01-5	107							
320-19659-4	OM-SS-02-5	76							
320-19659-7	OM-SS-06-5	80							
320-19659-9	OM-SS-03-5	86							
320-19659-11	OM-SS-05-5	85							
320-19659-13	OM-SS-07-5	74							
320-19659-15	OM-SS-04-5	75							
320-19659-17	OM-SS-15-5	75							
320-19659-18	OM-SS-14-5	72							
320-19659-18 - DL	OM-SS-14-5	93							
320-19659-18 - RA	OM-SS-14-5								
320-19659-21	OM-SS-13-5	50							
320-19659-26	OM-SS-11-5	51							
320-19659-28	OM-SS-10-5	73							
320-19659-31	OM-SS-09-5	84							
320-19659-33	OM-SS-08-5	90							
320-19659-35	OM-SS-12-5	73							
LCS 320-117366/2-A	Lab Control Sample	83							
LCSD 320-117366/3-A	Lab Control Sample Dup	83							
MB 320-117366/1-A	Method Blank	74							

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF

Isotope Dilution Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF1 = 13C-1,2,3,7,8-PeCDF
HxCDD2 = 13C-1,2,3,6,7,8-HxCDD
HxCDF1 = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF1 = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-117366/1-A
Matrix: Solid
Analysis Batch: 123566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117366

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.0000010	0.00000016	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
2,3,7,8-TCDF	ND		0.0000010	0.00000010	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,7,8-PeCDD	ND		0.0000050	0.00000023	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,7,8-PeCDF	ND		0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
2,3,4,7,8-PeCDF	ND		0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,4,7,8-HxCDD	ND		0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,6,7,8-HxCDD	0.000000018	J q	0.0000050	0.00000012	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,7,8,9-HxCDD	ND		0.0000050	0.00000011	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,4,7,8-HxCDF	0.000000021	J q	0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,6,7,8-HxCDF	ND		0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,7,8,9-HxCDF	ND		0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
2,3,4,6,7,8-HxCDF	ND		0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,4,6,7,8-HpCDD	0.000000092	J	0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,4,6,7,8-HpCDF	0.000000059	J	0.0000050	0.00000011	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
1,2,3,4,7,8,9-HpCDF	0.000000037	J	0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
OCDD	0.000000485	J	0.000010	0.00000017	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
OCDF	0.000000196	J	0.000010	0.00000017	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total TCDD	ND		0.0000010	0.00000016	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total TCDF	ND		0.0000010	0.00000010	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total PeCDD	ND		0.0000050	0.00000023	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total PeCDF	ND		0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total HxCDD	0.000000018	J q	0.0000050	0.00000012	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total HxCDF	0.000000021	J q	0.0000050	0.00000013	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total HpCDD	0.000000185	J q	0.0000050	0.00000014	mg/Kg		07/11/16 14:06	08/22/16 18:28	1
Total HpCDF	0.000000097	J	0.0000050	0.00000012	mg/Kg		07/11/16 14:06	08/22/16 18:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*40 - 135*	*07/11/16 14:06*	*08/22/16 18:28*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*07/11/16 14:06*	*08/22/16 18:28*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-117366/1-A
Matrix: Solid
Analysis Batch: 123566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117366

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8-PeCDD	84		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-1,2,3,7,8-PeCDF	87		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-1,2,3,6,7,8-HxCDD	82		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-1,2,3,4,7,8-HxCDF	84		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-1,2,3,4,6,7,8-HpCDD	82		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-1,2,3,4,6,7,8-HpCDF	84		40 - 135	07/11/16 14:06	08/22/16 18:28	1
13C-OCDD	74		40 - 135	07/11/16 14:06	08/22/16 18:28	1

Lab Sample ID: LCS 320-117366/2-A
Matrix: Solid
Analysis Batch: 123721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117366

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,3,7,8-TCDD			0.0000200	0.0000211		mg/Kg		105	77 - 130		
2,3,7,8-TCDF			0.0000200	0.0000191		mg/Kg		96	79 - 137		
1,2,3,7,8-PeCDD			0.000100	0.000112		mg/Kg		112	79 - 134		
1,2,3,7,8-PeCDF			0.000100	0.000111		mg/Kg		111	81 - 134		
2,3,4,7,8-PeCDF			0.000100	0.000107		mg/Kg		107	76 - 132		
1,2,3,4,7,8-HxCDD			0.000100	0.000112		mg/Kg		112	65 - 144		
1,2,3,6,7,8-HxCDD			0.000100	0.000104		mg/Kg		104	73 - 147		
1,2,3,7,8,9-HxCDD			0.000100	0.000115		mg/Kg		115	80 - 143		
1,2,3,4,7,8-HxCDF			0.000100	0.000100		mg/Kg		100	72 - 140		
1,2,3,6,7,8-HxCDF			0.000100	0.0000965		mg/Kg		96	63 - 152		
1,2,3,7,8,9-HxCDF			0.000100	0.000103		mg/Kg		103	72 - 152		
2,3,4,6,7,8-HxCDF			0.000100	0.0000989		mg/Kg		99	72 - 151		
1,2,3,4,6,7,8-HpCDD			0.000100	0.000135	*	mg/Kg		135	86 - 134		
1,2,3,4,6,7,8-HpCDF			0.000100	0.000111		mg/Kg		111	81 - 137		
1,2,3,4,7,8,9-HpCDF			0.000100	0.000109		mg/Kg		109	79 - 139		
OCDD			0.000200	0.000267		mg/Kg		133	80 - 137		
OCDF			0.000200	0.000233		mg/Kg		117	75 - 141		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	79		40 - 135
13C-2,3,7,8-TCDF	81		40 - 135
13C-1,2,3,7,8-PeCDD	81		40 - 135
13C-1,2,3,7,8-PeCDF	82		40 - 135
13C-1,2,3,6,7,8-HxCDD	79		40 - 135
13C-1,2,3,4,7,8-HxCDF	83		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	87		40 - 135
13C-OCDD	83		40 - 135

Lab Sample ID: LCSD 320-117366/3-A
Matrix: Solid
Analysis Batch: 123721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			0.0000200	0.0000218		mg/Kg		109	77 - 130	3	20
2,3,7,8-TCDF			0.0000200	0.0000199		mg/Kg		99	79 - 137	4	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-117366/3-A
Matrix: Solid
Analysis Batch: 123721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3,7,8-PeCDD			0.000100	0.000108		mg/Kg		108	79 - 134	3	20
1,2,3,7,8-PeCDF			0.000100	0.000108		mg/Kg		108	81 - 134	3	20
2,3,4,7,8-PeCDF			0.000100	0.000109		mg/Kg		109	76 - 132	1	20
1,2,3,4,7,8-HxCDD			0.000100	0.000118		mg/Kg		118	65 - 144	5	20
1,2,3,6,7,8-HxCDD			0.000100	0.000110		mg/Kg		110	73 - 147	6	20
1,2,3,7,8,9-HxCDD			0.000100	0.000109		mg/Kg		109	80 - 143	6	20
1,2,3,4,7,8-HxCDF			0.000100	0.000102		mg/Kg		102	72 - 140	1	20
1,2,3,6,7,8-HxCDF			0.000100	0.0000996		mg/Kg		100	63 - 152	3	20
1,2,3,7,8,9-HxCDF			0.000100	0.0000983		mg/Kg		98	72 - 152	4	20
2,3,4,6,7,8-HxCDF			0.000100	0.000103		mg/Kg		103	72 - 151	4	20
1,2,3,4,6,7,8-HpCDD			0.000100	0.000108	*	mg/Kg		108	86 - 134	22	20
1,2,3,4,6,7,8-HpCDF			0.000100	0.000107		mg/Kg		107	81 - 137	4	20
1,2,3,4,7,8,9-HpCDF			0.000100	0.000109		mg/Kg		109	79 - 139	0	20
OCDD			0.000200	0.000223		mg/Kg		112	80 - 137	18	20
OCDF			0.000200	0.000234		mg/Kg		117	75 - 141	0	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*73*		*40 - 135*
13C-2,3,7,8-TCDF	*76*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*77*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*86*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*91*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*93*		*40 - 135*
13C-OCDD	*83*		*40 - 135*

Specialty Organics

Prep Batch: 117366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-2	OM-SS-01-5	Total/NA	Solid	8290	
320-19659-2 - DL	OM-SS-01-5	Total/NA	Solid	8290	
320-19659-4	OM-SS-02-5	Total/NA	Solid	8290	
320-19659-7	OM-SS-06-5	Total/NA	Solid	8290	
320-19659-9	OM-SS-03-5	Total/NA	Solid	8290	
320-19659-11	OM-SS-05-5	Total/NA	Solid	8290	
320-19659-13	OM-SS-07-5	Total/NA	Solid	8290	
320-19659-15	OM-SS-04-5	Total/NA	Solid	8290	
320-19659-17	OM-SS-15-5	Total/NA	Solid	8290	
320-19659-18 - DL	OM-SS-14-5	Total/NA	Solid	8290	
320-19659-18	OM-SS-14-5	Total/NA	Solid	8290	
320-19659-18 - RA	OM-SS-14-5	Total/NA	Solid	8290	
320-19659-21	OM-SS-13-5	Total/NA	Solid	8290	
320-19659-26	OM-SS-11-5	Total/NA	Solid	8290	
320-19659-28	OM-SS-10-5	Total/NA	Solid	8290	
320-19659-31	OM-SS-09-5	Total/NA	Solid	8290	
320-19659-33	OM-SS-08-5	Total/NA	Solid	8290	
320-19659-35	OM-SS-12-5	Total/NA	Solid	8290	
MB 320-117366/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-117366/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-117366/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 123566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-2	OM-SS-01-5	Total/NA	Solid	8290A	117366
320-19659-4	OM-SS-02-5	Total/NA	Solid	8290A	117366
320-19659-7	OM-SS-06-5	Total/NA	Solid	8290A	117366
320-19659-9	OM-SS-03-5	Total/NA	Solid	8290A	117366
320-19659-11	OM-SS-05-5	Total/NA	Solid	8290A	117366
320-19659-13	OM-SS-07-5	Total/NA	Solid	8290A	117366
MB 320-117366/1-A	Method Blank	Total/NA	Solid	8290A	117366

Analysis Batch: 123568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-15	OM-SS-04-5	Total/NA	Solid	8290A	117366
320-19659-17	OM-SS-15-5	Total/NA	Solid	8290A	117366
320-19659-18	OM-SS-14-5	Total/NA	Solid	8290A	117366
320-19659-21	OM-SS-13-5	Total/NA	Solid	8290A	117366
320-19659-26	OM-SS-11-5	Total/NA	Solid	8290A	117366
320-19659-28	OM-SS-10-5	Total/NA	Solid	8290A	117366
320-19659-31	OM-SS-09-5	Total/NA	Solid	8290A	117366
320-19659-33	OM-SS-08-5	Total/NA	Solid	8290A	117366
320-19659-35	OM-SS-12-5	Total/NA	Solid	8290A	117366

Analysis Batch: 123721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-2 - DL	OM-SS-01-5	Total/NA	Solid	8290A	117366
320-19659-18 - DL	OM-SS-14-5	Total/NA	Solid	8290A	117366
LCS 320-117366/2-A	Lab Control Sample	Total/NA	Solid	8290A	117366
LCSD 320-117366/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	117366

Specialty Organics (Continued)

Analysis Batch: 123765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-18 - RA	OM-SS-14-5	Total/NA	Solid	8290A	117366

General Chemistry

Analysis Batch: 115952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-2	OM-SS-01-5	Total/NA	Solid	D 2216	
320-19659-4	OM-SS-02-5	Total/NA	Solid	D 2216	
320-19659-7	OM-SS-06-5	Total/NA	Solid	D 2216	
320-19659-9	OM-SS-03-5	Total/NA	Solid	D 2216	
320-19659-11	OM-SS-05-5	Total/NA	Solid	D 2216	
320-19659-13	OM-SS-07-5	Total/NA	Solid	D 2216	
320-19659-15	OM-SS-04-5	Total/NA	Solid	D 2216	

Analysis Batch: 123457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-19659-17	OM-SS-15-5	Total/NA	Solid	D 2216	
320-19659-18	OM-SS-14-5	Total/NA	Solid	D 2216	
320-19659-21	OM-SS-13-5	Total/NA	Solid	D 2216	
320-19659-26	OM-SS-11-5	Total/NA	Solid	D 2216	
320-19659-28	OM-SS-10-5	Total/NA	Solid	D 2216	
320-19659-35	OM-SS-12-5	Total/NA	Solid	D 2216	

Client Sample ID: OM-SS-01-5
Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-01-5
Date Collected: 06/16/16 08:10
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-2
Matrix: Solid
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.02 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/22/16 20:46	KSS	TAL SAC
Total/NA	Prep	8290	DL		10.02 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	20			123721	08/23/16 20:09	KSS	TAL SAC

Client Sample ID: OM-SS-02-5
Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-02-5
Date Collected: 06/16/16 08:56
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-4
Matrix: Solid
Percent Solids: 74.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.07 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/22/16 21:32	KSS	TAL SAC

Client Sample ID: OM-SS-06-5
Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-06-5
Date Collected: 06/16/16 09:14
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-7
Matrix: Solid
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.05 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/22/16 22:17	KSS	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-03-5
Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-03-5
Date Collected: 06/16/16 09:28
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-9
Matrix: Solid
Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.06 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/22/16 23:03	KSS	TAL SAC

Client Sample ID: OM-SS-05-5
Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-05-5
Date Collected: 06/16/16 09:52
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-11
Matrix: Solid
Percent Solids: 65.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.02 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/22/16 23:49	KSS	TAL SAC

Client Sample ID: OM-SS-07-5
Date Collected: 06/16/16 10:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-07-5
Date Collected: 06/16/16 10:07
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-13
Matrix: Solid
Percent Solids: 68.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			9.99 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123566	08/23/16 00:35	KSS	TAL SAC

Client Sample ID: OM-SS-04-5
Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			115952	06/29/16 13:24	JMD	TAL SAC

Client Sample ID: OM-SS-04-5
Date Collected: 06/16/16 10:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-15
Matrix: Solid
Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			9.98 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 04:55	ALM	TAL SAC

Client Sample ID: OM-SS-15-5
Date Collected: 06/16/16 10:36
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Client Sample ID: OM-SS-15-5
Date Collected: 06/16/16 10:36
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-17
Matrix: Solid
Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.04 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 05:41	ALM	TAL SAC

Client Sample ID: OM-SS-14-5
Date Collected: 06/16/16 10:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Client Sample ID: OM-SS-14-5
Date Collected: 06/16/16 10:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-18
Matrix: Solid
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.08 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 06:26	ALM	TAL SAC
Total/NA	Prep	8290	DL		10.08 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A	DL	5			123721	08/23/16 19:23	KSS	TAL SAC
Total/NA	Prep	8290	RA		10.08 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-14-5
Lab Sample ID: 320-19659-18
Date Collected: 06/16/16 10:42
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8290A	RA	1			123765	08/23/16 18:55	ALM	TAL SAC

Client Sample ID: OM-SS-13-5
Lab Sample ID: 320-19659-21
Date Collected: 06/16/16 10:57
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Client Sample ID: OM-SS-13-5
Lab Sample ID: 320-19659-21
Date Collected: 06/16/16 10:57
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 49.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.07 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 07:12	ALM	TAL SAC

Client Sample ID: OM-SS-11-5
Lab Sample ID: 320-19659-26
Date Collected: 06/16/16 11:44
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Client Sample ID: OM-SS-11-5
Lab Sample ID: 320-19659-26
Date Collected: 06/16/16 11:44
Matrix: Solid
Date Received: 06/17/16 13:50
Percent Solids: 66.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.03 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 07:58	ALM	TAL SAC

Client Sample ID: OM-SS-10-5
Lab Sample ID: 320-19659-28
Date Collected: 06/16/16 11:51
Matrix: Solid
Date Received: 06/17/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Client Sample ID: OM-SS-10-5
Date Collected: 06/16/16 11:51
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-28
Matrix: Solid
Percent Solids: 58.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.00 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 08:44	ALM	TAL SAC

Client Sample ID: OM-SS-09-5
Date Collected: 06/16/16 12:09
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-31
Matrix: Solid
Percent Solids: 68.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.03 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 09:30	ALM	TAL SAC

Client Sample ID: OM-SS-08-5
Date Collected: 06/16/16 12:25
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-33
Matrix: Solid
Percent Solids: 68.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.07 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 10:16	ALM	TAL SAC

Client Sample ID: OM-SS-12-5
Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			123457	08/22/16 13:52	JMD	TAL SAC

Client Sample ID: OM-SS-12-5
Date Collected: 06/16/16 12:42
Date Received: 06/17/16 13:50

Lab Sample ID: 320-19659-35
Matrix: Solid
Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.06 g	20 uL	117366	07/11/16 14:06	BNB	TAL SAC
Total/NA	Analysis	8290A		1			123568	08/23/16 11:02	ALM	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2897	01-31-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8290A	8290	Solid	1,2,3,4,6,7,8-HpCDD
8290A	8290	Solid	1,2,3,4,6,7,8-HpCDF
8290A	8290	Solid	1,2,3,4,7,8,9-HpCDF
8290A	8290	Solid	1,2,3,4,7,8-HxCDD
8290A	8290	Solid	1,2,3,4,7,8-HxCDF
8290A	8290	Solid	1,2,3,6,7,8-HxCDD
8290A	8290	Solid	1,2,3,6,7,8-HxCDF
8290A	8290	Solid	1,2,3,7,8,9-HxCDD
8290A	8290	Solid	1,2,3,7,8,9-HxCDF
8290A	8290	Solid	1,2,3,7,8-PeCDD
8290A	8290	Solid	1,2,3,7,8-PeCDF
8290A	8290	Solid	2,3,4,6,7,8-HxCDF
8290A	8290	Solid	2,3,4,7,8-PeCDF
8290A	8290	Solid	2,3,7,8-TCDD
8290A	8290	Solid	2,3,7,8-TCDF
8290A	8290	Solid	OCDD
8290A	8290	Solid	OCDF
8290A	8290	Solid	Total HpCDD
8290A	8290	Solid	Total HpCDF
8290A	8290	Solid	Total HxCDD
8290A	8290	Solid	Total HxCDF
8290A	8290	Solid	Total PeCDD
8290A	8290	Solid	Total PeCDF
8290A	8290	Solid	Total TCDD
8290A	8290	Solid	Total TCDF
D 2216		Solid	Percent Moisture

Method Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC

Protocol References:

ASTM = ASTM International

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: Mt. Shasta, Old Mill

TestAmerica Job ID: 320-19659-2
SDG: ON HOLD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-19659-2	OM-SS-01-5	Solid	06/16/16 08:10	06/17/16 13:50
320-19659-4	OM-SS-02-5	Solid	06/16/16 08:56	06/17/16 13:50
320-19659-7	OM-SS-06-5	Solid	06/16/16 09:14	06/17/16 13:50
320-19659-9	OM-SS-03-5	Solid	06/16/16 09:28	06/17/16 13:50
320-19659-11	OM-SS-05-5	Solid	06/16/16 09:52	06/17/16 13:50
320-19659-13	OM-SS-07-5	Solid	06/16/16 10:07	06/17/16 13:50
320-19659-15	OM-SS-04-5	Solid	06/16/16 10:25	06/17/16 13:50
320-19659-17	OM-SS-15-5	Solid	06/16/16 10:36	06/17/16 13:50
320-19659-18	OM-SS-14-5	Solid	06/16/16 10:42	06/17/16 13:50
320-19659-21	OM-SS-13-5	Solid	06/16/16 10:57	06/17/16 13:50
320-19659-26	OM-SS-11-5	Solid	06/16/16 11:44	06/17/16 13:50
320-19659-28	OM-SS-10-5	Solid	06/16/16 11:51	06/17/16 13:50
320-19659-31	OM-SS-09-5	Solid	06/16/16 12:09	06/17/16 13:50
320-19659-33	OM-SS-08-5	Solid	06/16/16 12:25	06/17/16 13:50
320-19659-35	OM-SS-12-5	Solid	06/16/16 12:42	06/17/16 13:50

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 1 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Request for Analysis: Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Request for Analysis: Dioxins/Furans (EPA Method 8290)	Additional Requirements
OM-SS-01-2	6/16/16	0807			Soil	2	X	X	
OM-SS-01-5	6/16/16	0810			Soil	2	X	X	HOLD
OM-SS-02-2	6/16/16	0853			Soil	2	X	X	
OM-SS-02-5	6/16/16	0856			Soil	2	X	X	HOLD
OM-SS-18	6/16/16	0900			Soil	1	X		
OM-SS-06-2	6/16/16	0911			Soil	2	X	X	
OM-SS-06-5	6/16/16	0914			Soil	2	X	X	HOLD
OM-SS-03-2	6/16/16	0925			Soil	2	X	X	
OM-SS-03-5	6/16/16	0928			Soil	2	X	X	HOLD
OM-SS-05-2	6/16/16	0947			Soil	2	X	X	
OM-SS-05-5	6/16/16	0952			Soil	2	X	X	HOLD
OM-SS-07-2	6/16/16	1004			Soil	2	X	X	
OM-SS-07-5	6/16/16	1007			Soil	2	X	X	HOLD

320-19659 Chain of Custody

Relinquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
[signature]	6/17/16 1350	[signature]	6-17-16 1350
Relinquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
Relinquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

4.6c
5.9c

For Laboratory Use Only

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 2 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Request for Analysis: Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Request for Analysis: Dioxins/Furans (EPA Method 8290)	Additional Requirements
OM-SS-04-2	6/16/16	1021			Soil	2	X	X	
OM-SS-04-5	6/16/16	1025			Soil	2	X	X	HOLD
OM-SS-15-2	6/16/16	1032			Soil	1		X	
OM-SS-15-5	6/16/16	1036			Soil	1		X	HOLD
OM-SS-14-5	6/16/16	1042			Soil	1		X	HOLD
OM-SS-14-2	6/16/16	1045			Soil	1		X	
OM-SS-13-2	6/16/16	1054			Soil	1		X	
OM-SS-13-5	6/16/16	1057			Soil	1		X	HOLD
OM-SS-16	6/16/16	1104			Soil	1	X		
OM-SS-19	6/16/16	1108			Soil	1	X		
OM-SS-17	6/16/16	1113			Soil	1	X		
OM-SS-11-2	6/16/16	1133			Soil	1		X	
OM-SS-11-5	6/16/16	1144			Soil	1		X	HOLD

Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
[signature]	6/17/16 1850	[signature]	6-17-16 1850
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
		[signature] 6/17/16 0855	
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

4.6°C
5.9°C

For Laboratory Use Only

Chain-of-Custody Form

Project Number: 20074.063.515.1007.01	Project Name: Mt. Shasta Old Mill, Mt. Shasta, Siskiyou County, California	Chain of Custody No.: 061616
Sampler's *(Signature)*		Page 3 of 3

Field Sample ID	Date	Time	Comp.	Grab	Matrix	No. of Containers	Total Petroleum Hydrocarbons as diesel and motor oil (EPA	Dioxins/Furans (EPA Method 8290)								Additional Requirements
OM-SS-10-2	6/16/16	1147			Soil	1		X								
OM-SS-10-5	6/16/16	1151			Soil	1		X								HOLD
OM-SS-20	6/16/16	1155			Soil	1		X								
OM-SS-09-2	6/16/16	1205			Soil	2	X	X								
OM-SS-09-5	6/16/16	1209			Soil	2	X	X								HOLD
OM-SS-08-2	6/16/16	1221			Soil	2	X	X								
OM-SS-08-5	6/16/16	1225			Soil	2	X	X								HOLD
OM-SS-12-2	6/16/16	1238			Soil	1		X								
OM-SS-12-5	6/16/16	1242			Soil	1		X								HOLD
OM-SS-21	6/16/16	1245			Soil	1		X								
OM-W	6/16/16	1310			Soil	2	X									
	6/ /16				Soil											
	6/ /16				Soil											

Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
	6/17/16 1352		6-17-16 0950
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:
Reliquished by: *(Signature and affiliation)*	Date and Time:	Received by: (Signature and affiliation)	Date and Time:

Notes:

Data package: Level III

Turnaround time: 10-day TAT business days

For Laboratory Use Only

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

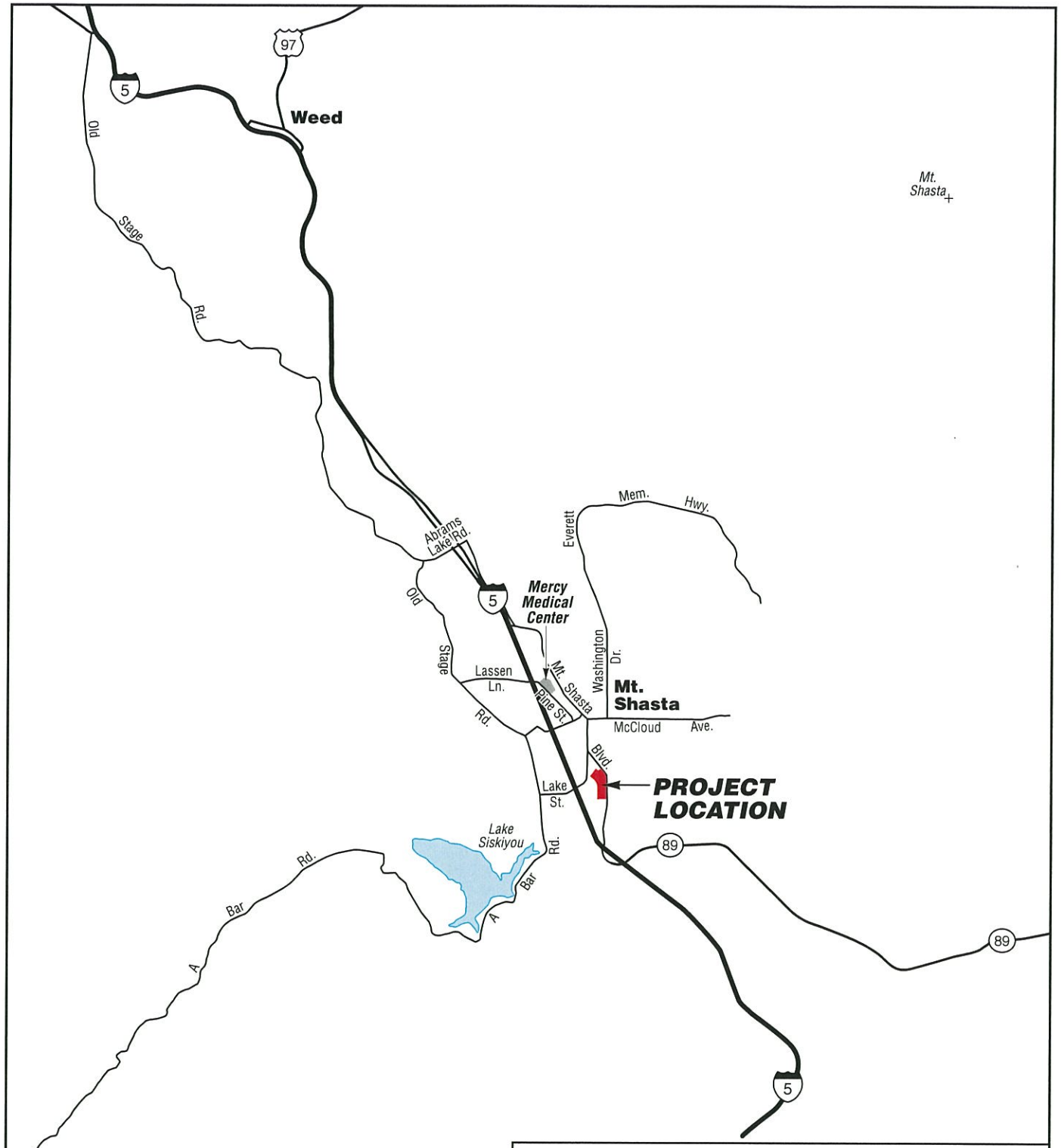
Job Number: 320-19659-2
SDG Number: ON HOLD

Login Number: 19659
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	-37: COC lists as soill, but it is a water
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C
2015 TARGETED SITE INVESTIGATION REPORT FIGURES - HISTORICAL SAMPLE RESULTS



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CONSULTANTS, INC.
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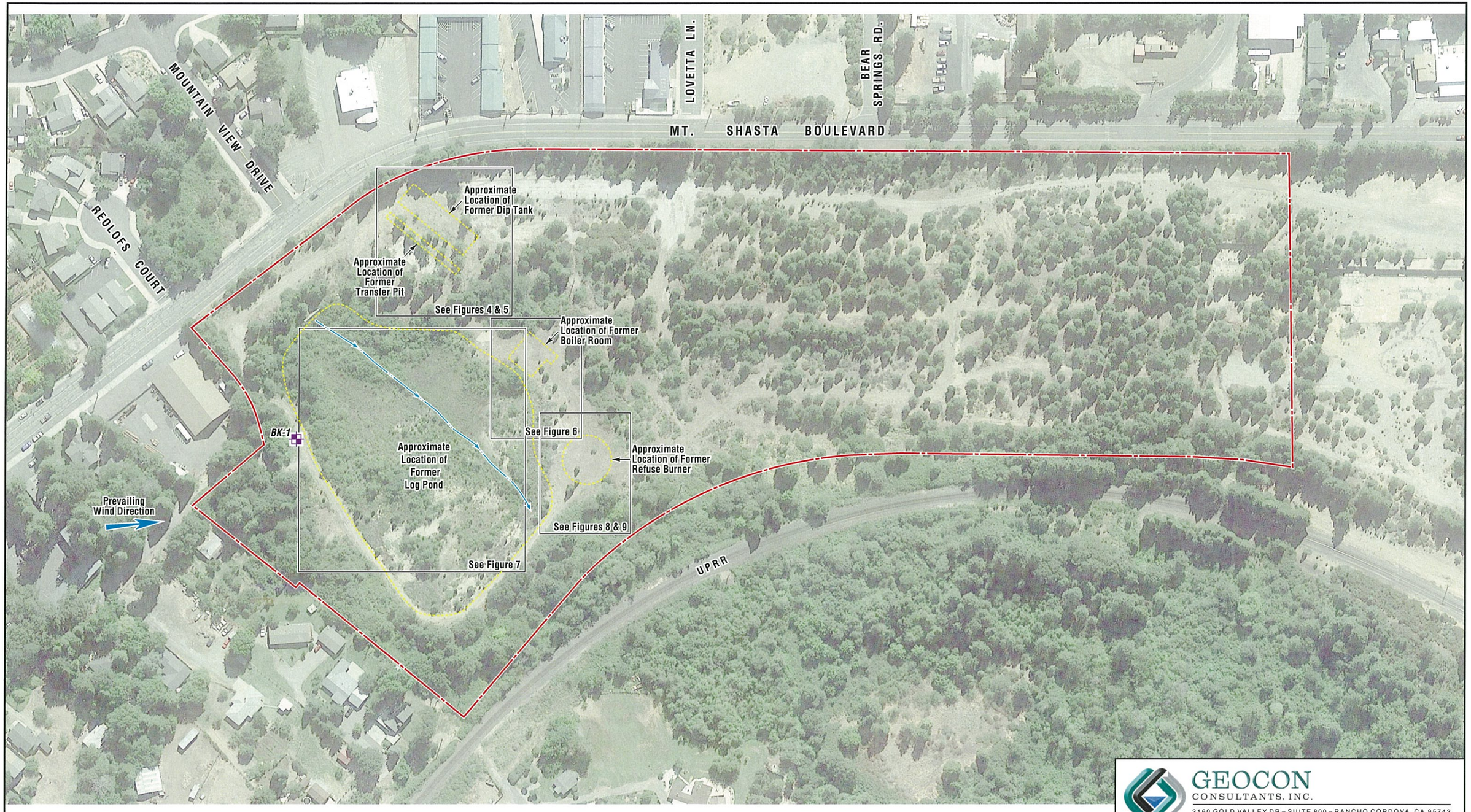
The Landing – Old Mill Section

Mt. Shasta,
California

VICINITY MAP

S9850-03-13	April 2015	Figure 1



LEGEND:

- Study Area Boundary
- Approximate Soil and Grab Groundwater Boring to 12'
- Intermittent Drainage (Mill Creek)

N

0 150

Scale in Feet

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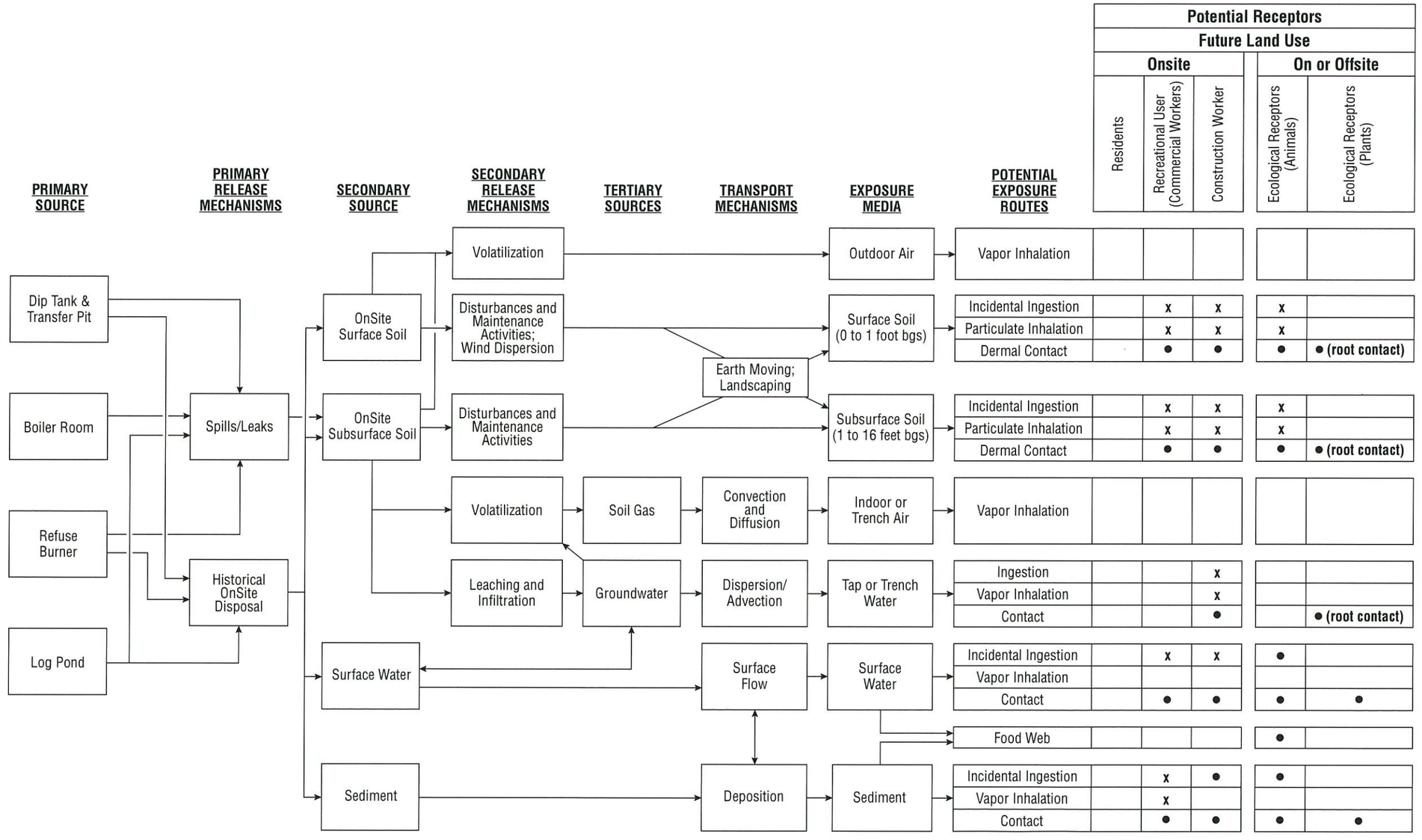
SITE PLAN

S9850-03-13	April 2015	Figure 2



		Potential Receptors				
		Future Land Use				
		Onsite			**On or Offsite**	
EXPOSURE MEDIA	**POTENTIAL EXPOSURE ROUTES**	Residents	Recreational User (Commercial Workers)	Construction Worker	Ecological Receptors (Animals)	Ecological Receptors (Plants)
Outdoor Air	Vapor Inhalation					
Surface Soil (0 to 1 foot bgs)	Incidental Ingestion		x	x	x	
	Particulate Inhalation		x	x	x	
	Dermal Contact		●	●	●	● (root contact)
Subsurface Soil (1 to 16 feet bgs)	Incidental Ingestion		x	x	x	
	Particulate Inhalation		x	x	x	
	Dermal Contact		●	●	●	● (root contact)
Indoor or Trench Air	Vapor Inhalation					
Tap or Trench Water	Ingestion			x		
	Vapor Inhalation			x		
	Contact			●		● (root contact)
Surface Water	Incidental Ingestion		x	x	●	
	Vapor Inhalation					
	Contact		●	●	●	●
Surface Water / Sediment	Food Web				●	
Sediment	Incidental Ingestion		x	●	●	
	Vapor Inhalation		x			
	Contact		●	●	●	●

LEGEND:

☐	Pathway is not complete; no evaluation required
x	Pathway is or might be complete, but is judged to be minor
●	Pathway is or might be complete and might be significant

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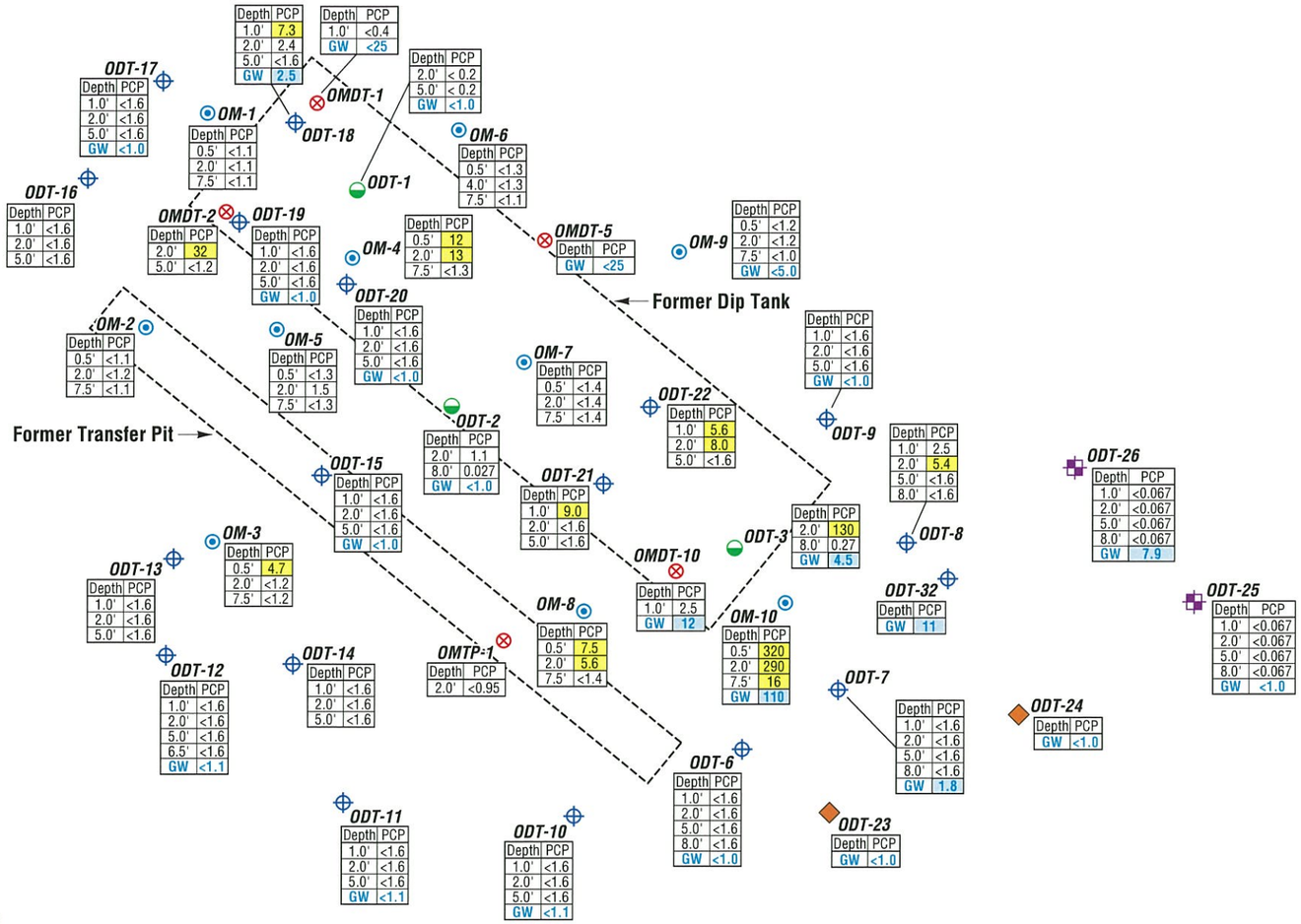
Conceptual Site Model

S9850-03-13	April 2015	Figure 3



LEGEND:

- Approximate Boring Location (1998)
- Approximate Boring Location (2005)
- Approximate Boring Location (2007)
- Approximate Boring Location (2013)
- Approximate Grab Groundwater Boring to 12'
- Approximate Soil and Grab Groundwater Boring to 12'
- Exceeds Project Action Levels (**Soil:** 4.0 mg/kg, **GW:** 1.0 µg/l)

PCP = Pentachlorophenol
GW = Groundwater
Soil Concentrations in Milligrams per Kilogram (mg/kg)
GW Concentrations in Micrograms per Liter (µg/l)

0 30
Scale in Feet

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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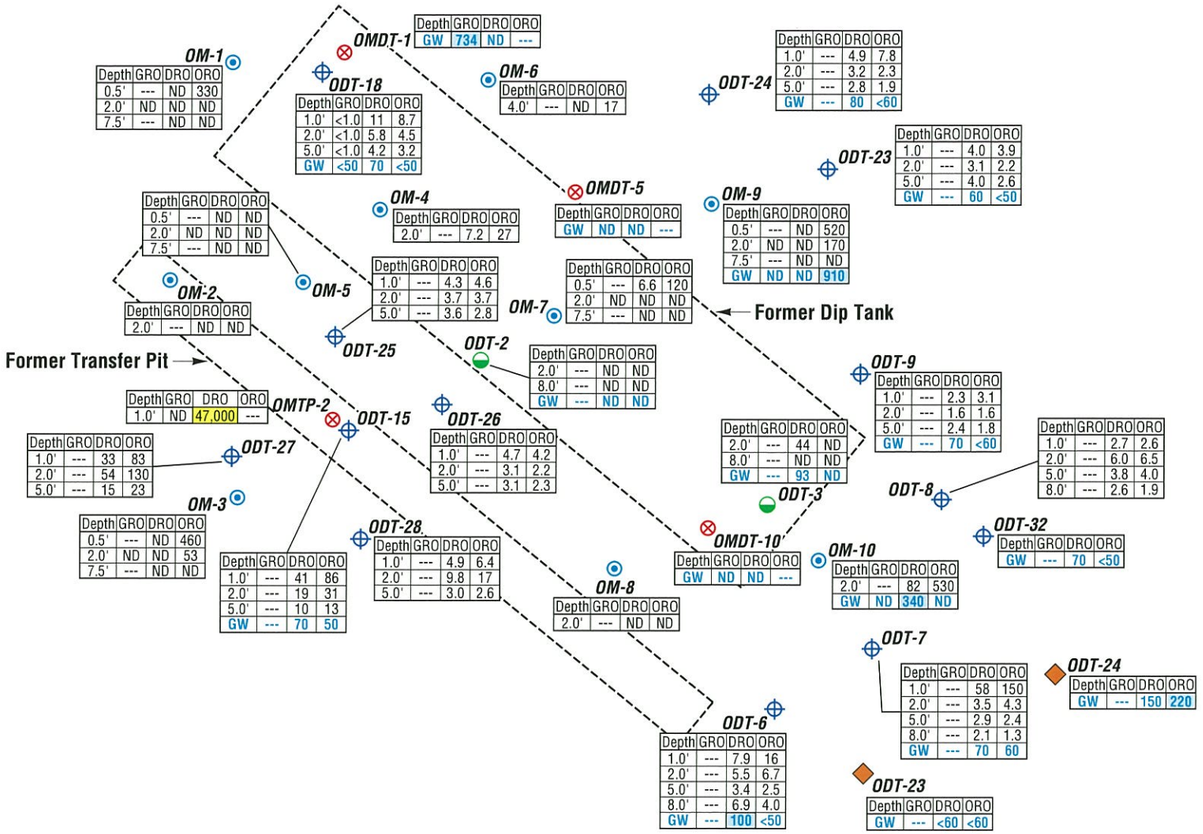
Former Dip Tank and Transfer Pit – PCP

S9850-03-13	April 2015	Figure 4



LEGEND:

- Approximate Boring Location (1998)
- Approximate Boring Location (2005)
- Approximate Boring Location (2007)
- Approximate Boring Location (2013)
- Approximate Grab Groundwater Boring to 12'
- Exceeds Project Action Levels
  (**GRO - Soil:** 4,000 mg/kg, **GW:** 100 µg/l)
  (**DRO - Soil:** 1,100 mg/kg, **GW:** 100 µg/l)
  (**ORO - Soil:** 100,000 mg/kg, **GW:** 100 µg/l)

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
GW = Groundwater
--- = Not Analyzed
ND = Not Detected
Soil Concentrations in Milligrams per Kilogram (mg/kg)
GW Concentrations in Micrograms per Liter (µg/l)

0 30
Scale in Feet

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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The Landing – Old Mill Section

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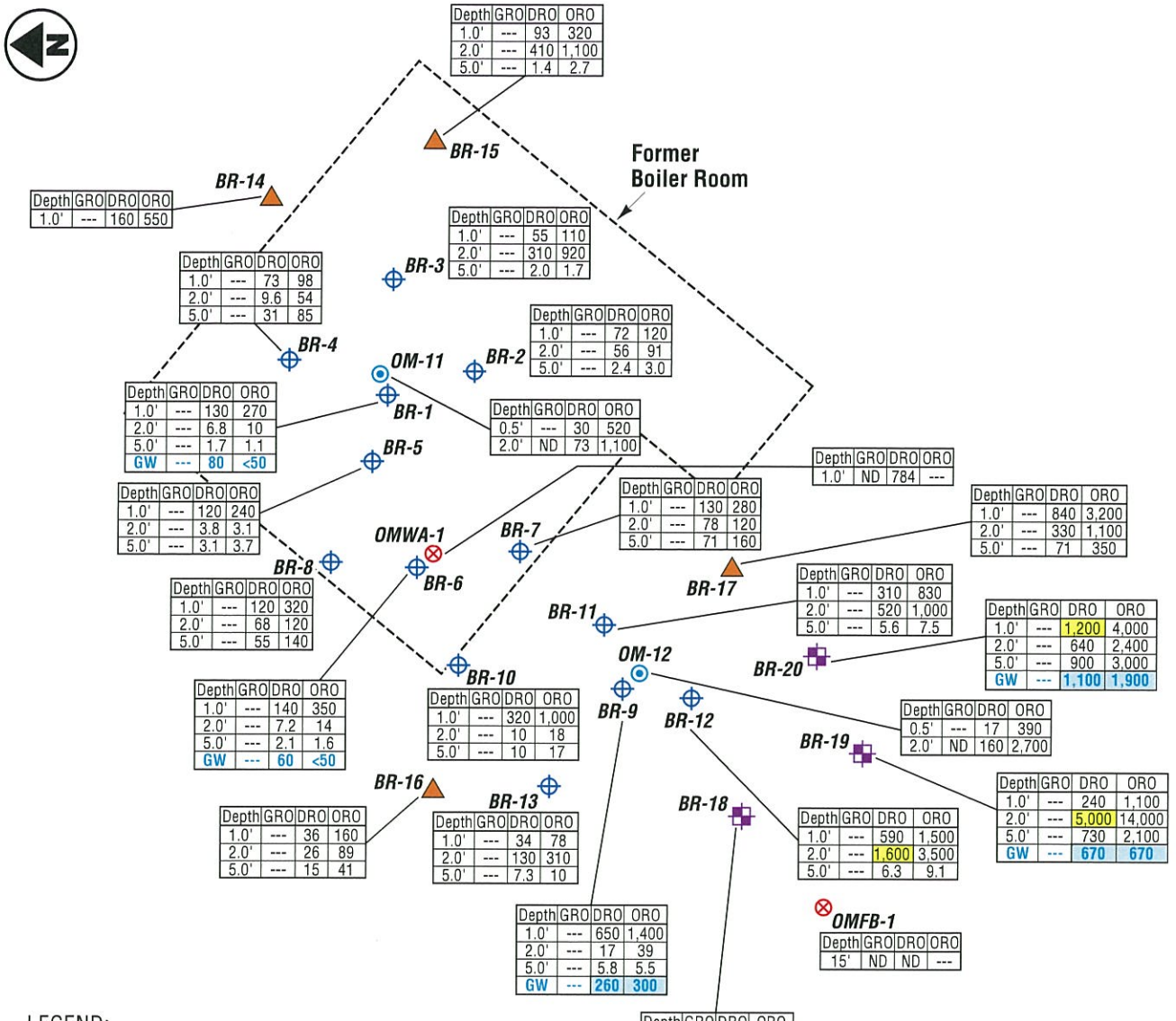
Former Dip Tank and Transfer Pit – Petroleum Hydrocarbons

S9850-03-13 | April 2015 | Figure 5



LEGEND:

- Approximate Boring Location (1998)
- Approximate Boring Location (2005)
- Approximate Boring Location (2013)
- Approximate Soil Boring to 5'
- Approximate Soil and Grab Groundwater Boring to 12'
- Exceeds Project Action Levels
  (**GRO - Soil:** 4,000 mg/kg, **GW:** 100 µg/l)
  (**DRO - Soil:** 1,100 mg/kg, **GW:** 100 µg/l)
  (**ORO - Soil:** 100,000 mg/kg, **GW:** 100 µg/l)

0 20
Scale in Feet

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
GW = Groundwater
--- = Not Analyzed
ND = Not Detected
Soil Concentrations in Milligrams per Kilogram (mg/kg)
GW Concentrations in Micrograms per Liter (µg/l)

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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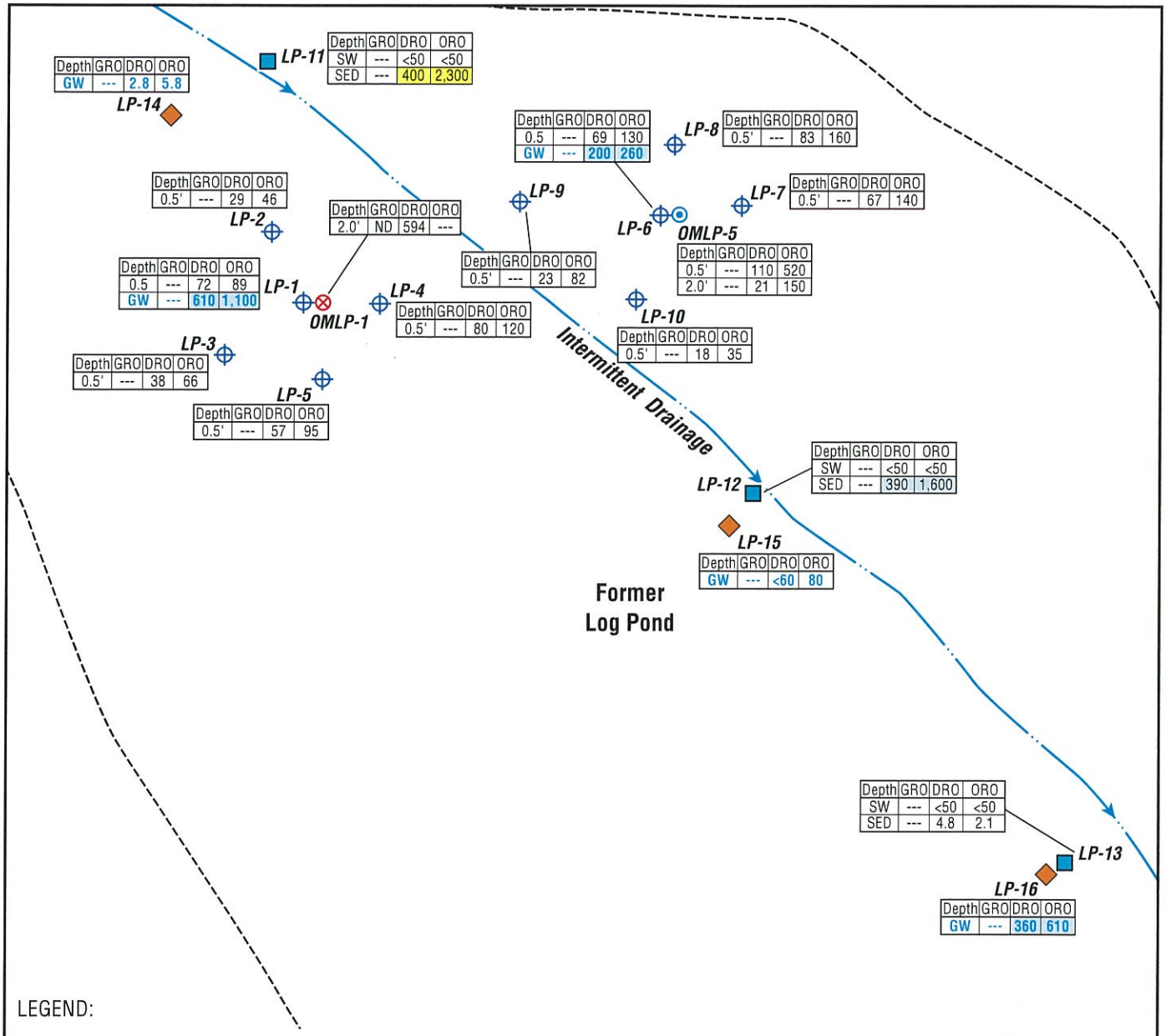
**Former Boiler Room –
Petroleum Hydrocarbons**

S9850-03-13	April 2015	Figure 6



LEGEND:

- Approximate Boring Location (1998)
- Approximate Boring Location (2005)
- Approximate Boring Location (2013)
- Approximate Grab Groundwater Boring to 2-3'
- Approximate Grab Sediment and Surface Water Sample
- Exceeds Project Action Levels
  (**DRO - Soil:** 1,100 mg/kg, **GW:** 100 µg/l,
  SED: 110 mg/kg, **SW:** 640 µg/l)
  (**ORO - Soil:** 100,000 mg/kg, **GW:** 100 µg/l,
  SED: 500 mg/kg, **SW:** 640 µg/l)

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
GW = Groundwater
--- = Not Analyzed
ND = Not Detected
Soil & Sed Concentrations in Milligrams per Kilogram (mg/kg)
GW & SW Concentrations in Micrograms per Liter (µg/l)

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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The Landing – Old Mill Section

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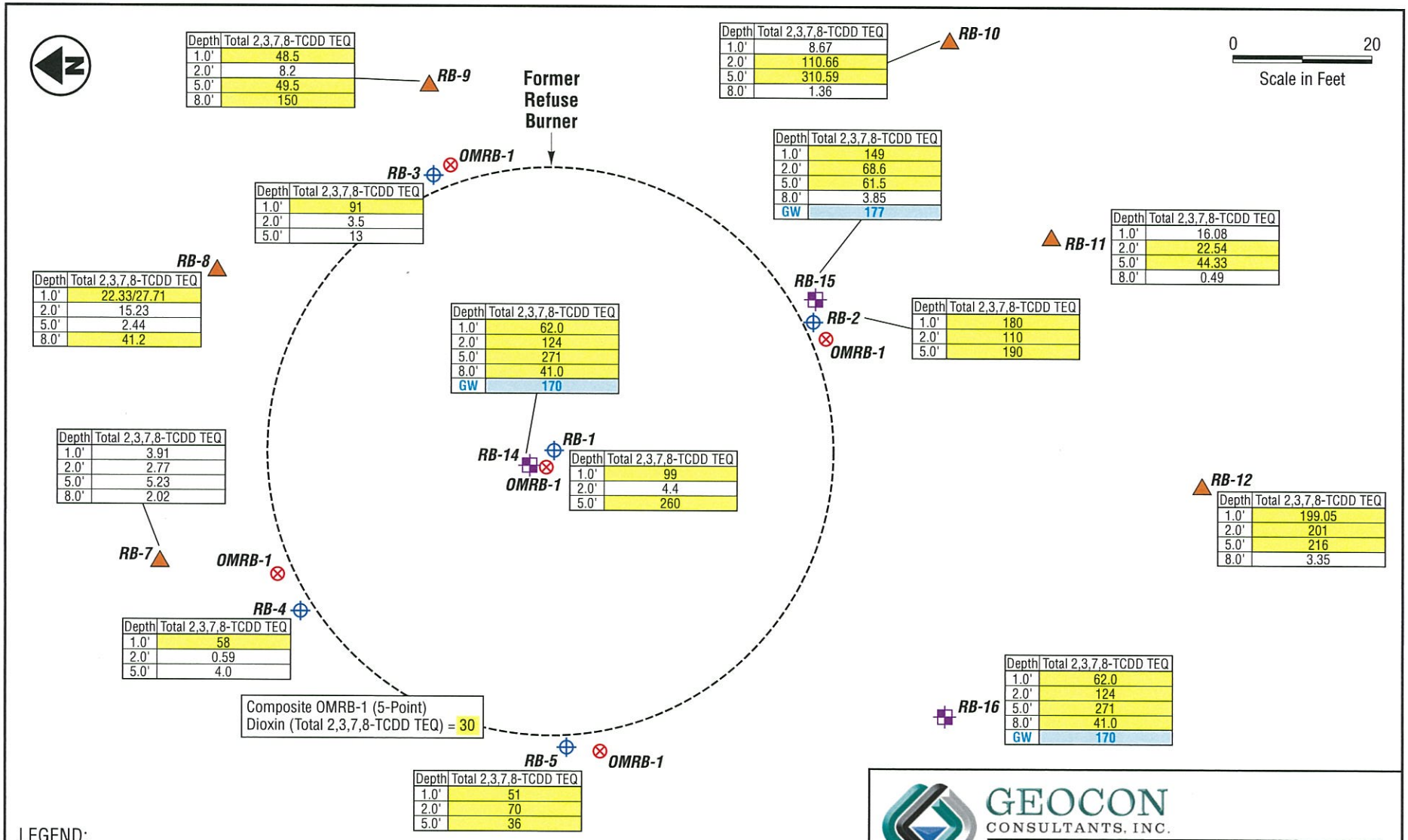
**Former Log Pond –
Petroleum Hydrocarbons**

S9850-03-13	April 2015	Figure 7



LEGEND:

- Approximate Sample Location (1998)
- Approximate Boring Location (Phase II ESA, 2013)
- Approximate Grab Groundwater Boring to 12' (TSI, 2015)
- Approximate Soil and Grab Groundwater Boring to 12' (TSI, 2015)

Exceeds Project Action Levels (**Soil:** 22 ng/kg, **GW:** 30 ng/L)

TEQ Toxicity Equivalence

Soil Concentrations in Nanograms per Kilogram (ng/kg)

GW Concentrations in Nanograms per Liter (ng/L)

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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The Landing – Old Mill Section

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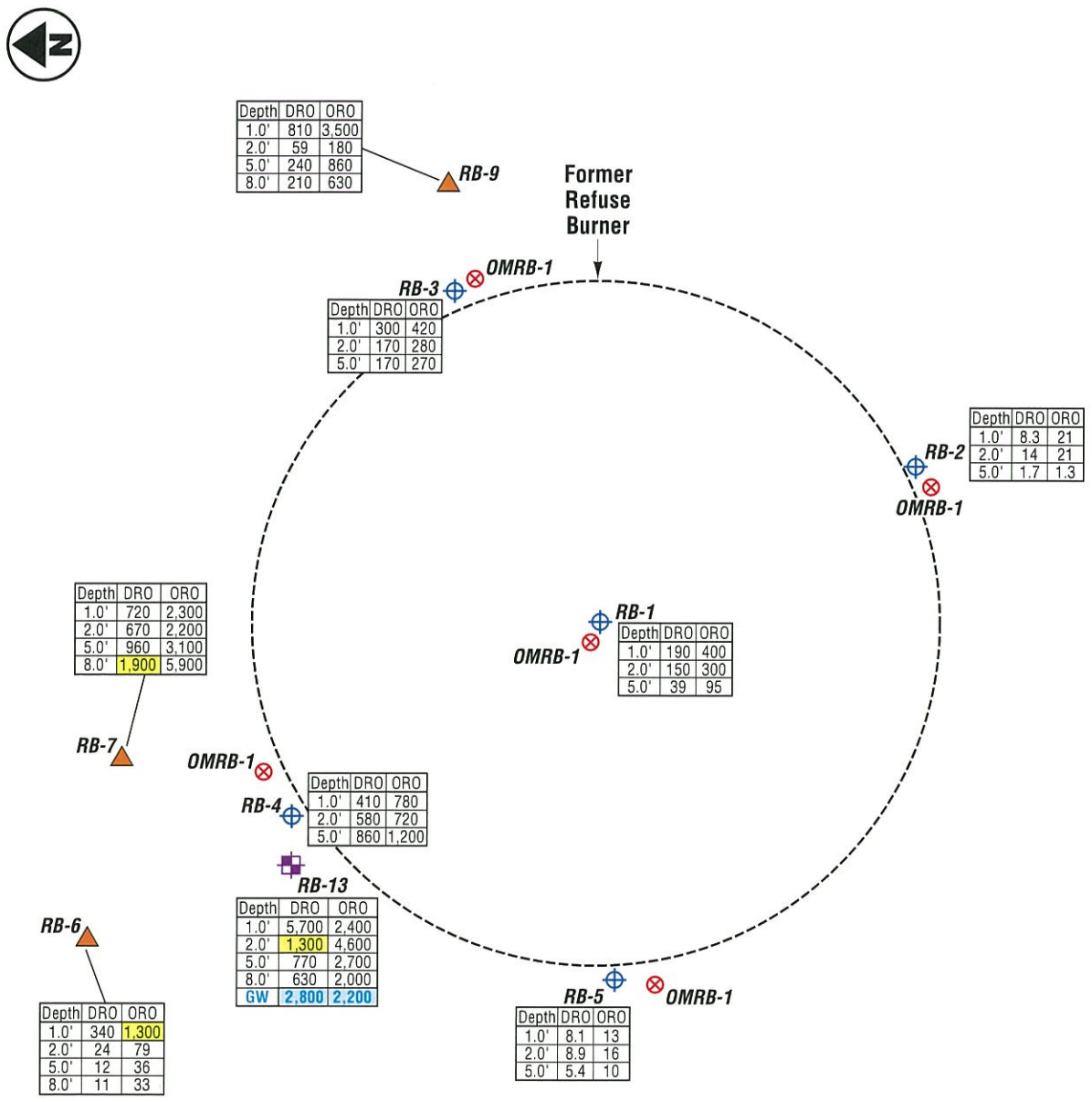
Former Refuse Burner – 2,3,7,8-TCDD TEQs

S9850-03-13 | April 2015 | Figure 8



LEGEND:

- Approximate Sample Location (1998)
- Approximate Boring Location (2013)
- Approximate Soil Boring to 8'
- Approximate Soil and Grab Groundwater Boring to 12'
- Exceeds Project Action Levels
  (**DRO - Soil:** 1,100 mg/kg, **GW:** 100 µg/l)
  (**ORO - Soil:** 100,000 mg/kg, **GW:** 100 µg/l)

Soil Concentrations in Milligrams per Kilogram (mg/kg)

0 20
Scale in Feet

Ref: Ecology and Environment, Inc., 2005, URS, 2007, and Geocon, 2014

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The Landing – Old Mill Section

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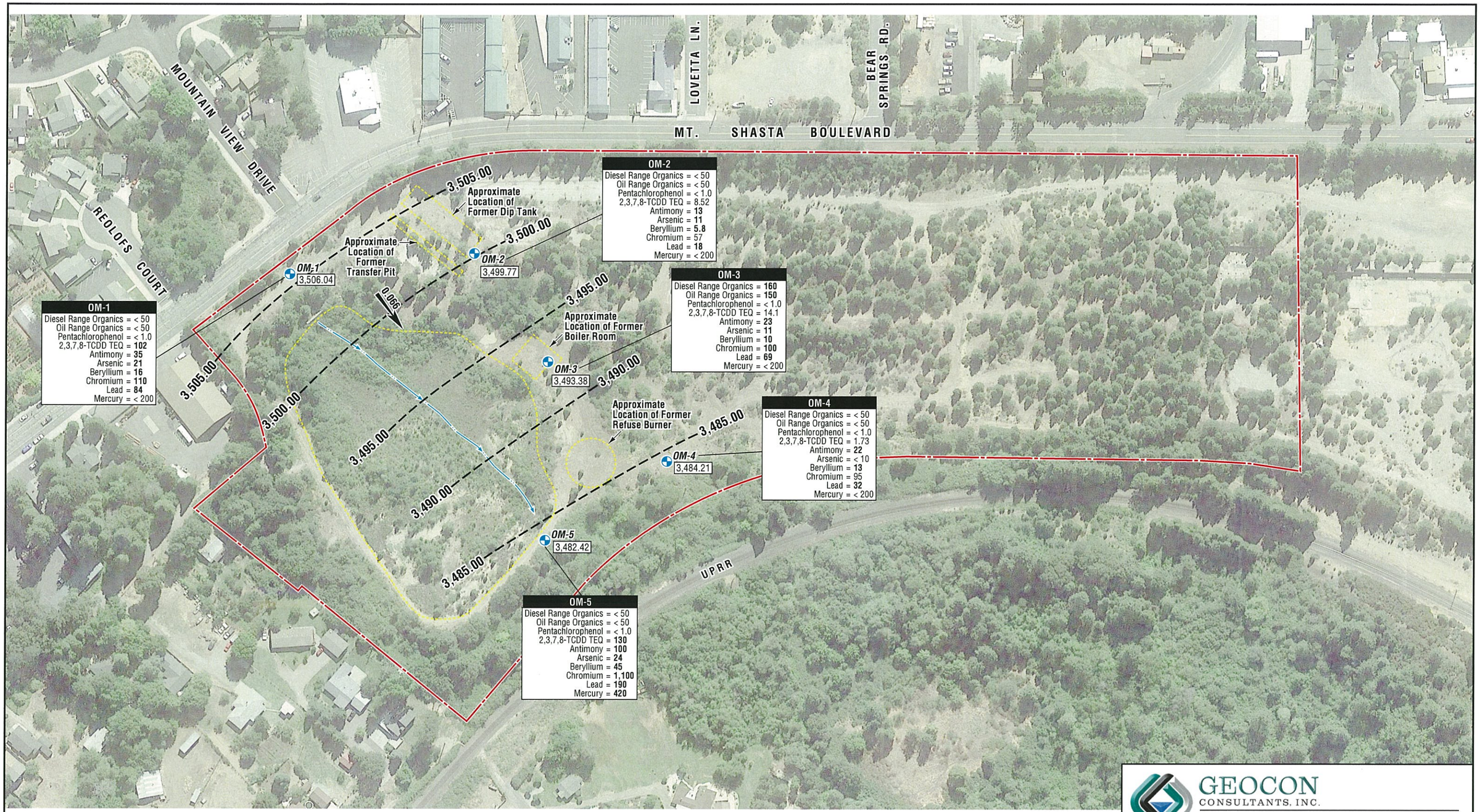
Former Refuse Burner – Petroleum Hydrocarbons

S9850-03-13	April 2015	Figure 9



LEGEND:

- Study Area Boundary
- OM-5 Approximate Monitoring Well Location
- Intermittent Drainage (Mill Creek)
- Groundwater Elevation Contour (Interval = 5.00 Ft.)
- 3,482.42 MSL Elevation of Groundwater Measured on 3/13/15
- 0.066 Approximate Groundwater Direction & Gradient

Bold indicates concentration equal to or greater than Project Action Level

All Concentrations Reported in Micrograms Per Liter (µg/l)

0 150
Scale in Feet

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Groundwater Elevation Map and Chemicals of Concern – March 2015

S9850-03-13	April 2015	Figure 10