# SOIL REMEDIAL ACTION COMPLETION REPORT

# SCHMID 32ND STREET PROPERTY—REMEDIAL ACTION



Prepared for GEORGE SCHMID & SONS, INC. May 26, 2015 Project No. 0564.02.03

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# SOIL REMEDIAL ACTION COMPLETION REPORT

SCHMID 32ND STREET PROPERTY—REMEDIAL ACTION The material and data in this report were prepared under the supervision and direction of the undersigned.

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bgs	below ground surface
BMP	best management practice
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CUL	cleanup level
су	cubic yards
Ecology	Washington State Department of Ecology
GSSI	George Schmid & Sons, Inc.
MFA	Maul Foster & Alongi, Inc.
MTCA	Model Toxics Control Act
naphthalenes	the sum of 1-methylnaphthalene, 2-methylnaphthalene,
	and naphthalene
Property	GSSI 32nd Street Property at 1411 32nd Street,
	Washougal, Washington
SRA	soil remedial action
TPH-D	diesel-range and lube-oil-range organics
UST	underground storage tank
WAC	Washington Administrative Code

# INTRODUCTION

On behalf of George Schmid & Sons, Inc. (GSSI), Maul Foster & Alongi, Inc. (MFA) has prepared this report describing the completion of the soil remedial action (SRA) at the GSSI 32nd Street Property (Property) located at 1411 32nd Street, Washougal, Washington. The RA was completed in accordance with the RA work plan found in the Remedial Action Work Plan finalized in January 2015 (MFA, 2015). GSSI operated on the Property from approximately the 1950s until early 2000. The Property is owned by the Schmid Family Limited Partnership I.

The SRA removed contaminated soils at four locations at the Property. The soil RA was designed to meet the requirements of the Model Toxics Control Act (MTCA) (Revised Code of Washington 70.105D) and implementing regulations (Washington Administrative Code [WAC] 173-340), as well as site-specific criteria established in the remedial investigation and feasibility study (RI/FS) report (MFA, 2014). These criteria have been met by the completed SRA documented in this report.

The project consisted of:

- Installed best management practices (BMPs)
- Decommissioned one existing monitoring well
- Excavated contaminated soils from four areas
- Removed contaminated soils to off-site waste facility
- Backfilled the aforementioned excavated areas
- Hydroseeded disturbed areas

The preferred remedial action for groundwater is in situ treatment by injection of an oxidizing agent, which will be applied at various injection points on the Property in 2015. Contamination is confined to the Property, therefore the Site (as defined by Model Toxics Control Act (MTCA) and WAC 173-340-200) is limited to the Property. The selected groundwater remedy will likely require multiple years to allow reduction of groundwater contamination below the regulatory cleanup levels (CULs). A detailed description of the groundwater remedy is included in the RI/FS report (MFA, 2014).

# BACKGROUND

# 2.1 Site Description

The Property is located in section DLC47 of township 1 north and range 4 east of the Willamette Meridian (see Figure 1). The Property comprises a total of 17 acres and includes a former operational area for GSSI, a construction company (approximately 5 acres), and the lower pasture

area (approximately 12 acres). The Property is relatively flat, with a terrace separating the former operational area and the pasture which borders the Washougal River. The Property is bordered by 32nd Street to the east and the Washougal River to the west, with agricultural land to the southwest and residential areas to the north and southeast.

The Property is currently vacant. An office, shop areas, wash pad, shed, aboveground storage tanks, underground storage tanks (USTs), and other minor structures which were demolished in 2010. The upper portion of the Property is surfaced with grass and a gravel parking area near 32nd Street, and an asphalt driveway connects 32nd Street to the lower portion of the Property (crossing the upper portion of the Property). The lower portion of the Property is grassy pastureland.

# 2.2 Site History

The Property was part of a large agricultural property until the mid-1930s and contained some residential buildings and outbuildings near its southeast portion. Light industrial use of the Property by GSSI started in the 1950s, with the main shop/office building constructed in the 1970s. Most of the remaining structures were constructed in the 1990s. On-site operations included heavy equipment maintenance and repair, power washing, sandblasting, equipment storage, and administrative business operations. All structures were removed from the Property by 2010.

# 2.3 Current and Future Land Use

The Property is currently zoned as R1-10, single family with minimum 10,000-square-foot lots. The Property is surrounded by R1-10 and R1-7.5. However, until approximately 2010, the 5 acres of the Property bordering 32<sup>nd</sup> Street was used for commercial purposes.

The Property owner has entered into a purchase and sale agreement with the city of Washougal for purchase of the Property. The purchase and sale agreement requires that the city of Washougal develop the Property as a public park. Based on recent communication with the city of Washougal, the upland portion of the Property likely would be used for parking, a bathroom facility, a picnic area, and potentially a playground, while the lowlands would be enhanced with native vegetation and constructed trails and provide access to the Washougal River.

# **3** PROJECT TEAM AND CONSTRUCTION OVERSIGHT

The following presents the project organization:

- Regulator—Washington State Department of Ecology (Ecology)
- Owner—GSSI; Carolyn Simms
- Environmental Consultant—MFA; Alan R. Hughes
- Contractor—McDonald Excavating, Inc.

Construction oversight activities for the project included excavating of contaminated soil, establishing and maintaining BMPs, and backfilling excavations with clean material. MFA collected soil samples, evaluated confirmation results, and documented actions completed for the project.

# 4 SOIL REMEDIAL ACTION SUMMARY

# 4.1 Site Preparation and Layout

Before the SRA began, BMPs were installed to contain impacted soil, reduce erosion during construction, and prevent surface runoff from leaving the Property. BMPs were implemented in accordance with the SRA Work Plan. The RFP established BMPs to address concerns about erosion caused by stormwater runoff. BMPs established in the RFP include: silt fencing placed around the down-sloping portion of the Property near excavation areas, and periodic sweeping of the driveway and the right-of-way area. See Appendix A for photographs of the site BMPs.

# 4.2 Monitoring Well Decommissioning

Monitoring well MW01 was decommissioned because it was in the footprint of one of the excavations in accordance with WAC 173-160-381. All other on-site monitoring wells (MW02 through MW07) were protected. Monitoring wells MW02, MW03, and MW07 will be used for compliance monitoring (see Figure 2). See Figure 2 for locations of monitoring wells. The well decommissioning record is included in Appendix B.

# 4.3 Excavation of Impacted Soils

The RI/FS identified four areas of soil impacts on the Property. Appendix C contains a figure, used in the SRA Work Plan (MFA, 2015), delineating the four areas of excavation and initial dimensions. The contractor excavated contaminated soils on the Property under MFA's guidance. Contaminated soils were loaded directly into trucks and disposed of at a RCRA (Resource Conservation and Recovery Act) Subtitle D landfill in Hillsboro, Oregon.

The four remediation areas are shown in Appendix C and described in detail in the RI/FS report (MFA):

• Area 1: Carcinogenic polycyclic aromatic hydrocarbons (cPAHs)<sup>1</sup> were identified at 13.5 feet below ground surface (bgs). The impacts likely are related to the former wash pad settling tanks.

<sup>&</sup>lt;sup>1</sup> Consistent with WAC 173-340-708(8), mixtures of cPAHs are considered as single hazardous substances when evaluating compliance with CULs such that the toxicity of a particular congener is expressed relative to the most toxic congener (i.e., benzo(a)pyrene). The toxicity of cPAHs as a group was assessed using a toxic equivalency approach as described in the RI/FS report (MFA, 2015).

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- Area 2: Diesel-range and lube-oil-range organics (collectively referred to in this report as TPH-D)<sup>2</sup> were identified in shallow soil near the former water cistern. The extent of the impacts was delineated during the RI.
- Area 3: Diesel-range-organic concentrations in surface soil at the SS-01 location adjacent to the stormwater outfall are just over the soil biota ecological screening level. This is the only location on the Property where human health MTCA CULs are not exceeded, but there is an ecological concern.
- Area 4: Soil is impacted with TPH-D, gasoline-range organics (GRO), and naphthalenes<sup>3</sup> from a former diesel UST. The extent of the soil impacts is limited to the immediate vicinity of the former UST and is in deeper soil (7.5 feet bgs).

All soil contaminated above applicable MTCA CULs was removed from all excavation areas (see Figure 2). Confirmation samples were taken along each side wall and the base of the excavation. Side wall sample locations were determined to be representative samples, taken 1 to 2 feet below the contamination depths identified during site characterization. Tables 1 through 4 summarize soil confirmation sample results for excavation Areas 1 through 4, respectively. See Appendix D for laboratory analytical reports and Appendix E for a data validation memorandum. The data were found to be acceptable for their intended use, with the appropriate data qualifiers assigned.

Photographs showing excavation are presented in Appendix A. The waste disposal tickets for the impacted soil are included in Appendix F. The excavation and disposal of impacted soil are summarized below.

## Impacted Soil Excavation Volumes

	Area 1	Area 2	Area 3	Area 4	Total
Approx. Contamination Removed (tons)	450	380	15	715	1,560

## 4.3.1.1 Excavation Area 1

Because of contaminated soils containing cPAHs at 13.5 feet bgs, the Area 1 excavation schedule initially called for the excavation of approximately 195 cubic yards (cy) of soil, including clean overburden and impacted soil. Area 1 soils were a mixture of native red clay and sandy loam fill, as seen in Appendix A. Clean soil to be reused for backfill, taken from 4.5 to 7 feet bgs, was stockpiled adjacent to the excavation. Contaminated soil in the initial 20-by-20-foot area were excavated to 15

<sup>&</sup>lt;sup>2</sup> Note that diesel-range and lube-oil-range organic results were summed consistent with Ecology Implementation Memorandum No. 4 (Ecology, 2004). Therefore, the sum of diesel-range and lube-oil-range organics is referred to in this report as TPH-D.

<sup>&</sup>lt;sup>3</sup> Consistent with MTCA Method A, the sum of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene is referred to in this report as naphthalenes and is compared to the MTCA Method A CUL.

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feet bgs<sup>4</sup>. Sandy loam fill contained most of the contamination, based on olfactory and visual observations.

Analysis of confirmation soil samples from the north, east, and west walls confirmed contamination below MTCA Method A soil CULs for TPH-D and cPAHs. Initial confirmation analytical results from Area 1's base and south wall indicated that contamination levels were above CULs for cPAHs. Therefore, additional excavation (approximately 190 cy) was completed at Area 1 to the south and in the base of the excavation.

Additional excavation increased the depth of the original base of Area 1 to 17 feet bgs. At this depth, perched groundwater was encountered in a lens of loose gravel and sand, filling the excavation with approximately 1.5 feet of water. The perched groundwater had infiltrated by the next morning and the excavation was dry. Along the south wall, the excavation was advanced laterally an additional 12 feet. Confirmation samples from the new base and south wall confirmed that impacts in Area 1 were below applicable CULs (see Table 1) Approximately 450 tons of impacted soil was removed and disposed of from the Area 1 excavation. Confirmation samples collected from the excavation demonstrated that soil contaminated above applicable MTCA Method A CULs was removed.

## 4.3.1.2 Excavation Area 2

The Area 2 excavation schedule called for the excavation of approximately 225 cy of soil to remove soil contaminated with diesel range hydrocarbons. Soil in the 36-by-38-foot area was excavated to approximately 5 feet bgs. Analytical results from all Area 2 confirmation samples demonstrated that TPH-D concentrations are below Method A soil CULs (see Table 2). The Area 2 excavation removed and disposed of approximately 380 tons of impacted soil. C

## 4.3.1.3 Excavation of Area 3

Because of contaminated shallow soil containing diesel range hydrocarbons, the Area 3 excavation schedule called for the excavation of approximately 10 cy of soil to a depth of 1.5 feet bgs. Analytical results from all Area 3 confirmation samples indicated TPH-D concentrations below Method A soil CULs (see Table 3). The Area 3 excavation removed and disposed of approximately 15 tons of impacted soils.

## 4.3.1.4 Excavation of Area 4

The Area 4 excavation schedule called for the excavation of approximately 1,000 cy of soil Area 4 contained approximately 6 feet of unimpacted fill that overlaid contaminated deeper soil. Clean overburden was stockpiled adjacent to the excavation to be used for backfill. Contaminated soil in the 22-by-50-foot area was excavated to depths ranging from 14.5 to 16.5 feet bgs. On the east side of the excavation, groundwater was encountered at 14.5 feet bgs. Analytical test results from samples from Area 4's extents confirmed contamination that levels were below CULs for cPAHs.

<sup>&</sup>lt;sup>4</sup> The soil point of compliance for direct contact with soil is defined as throughout the Site from the ground surface to 15 feet below the ground surface WAC 173-340-740.

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Therefore, less excavation (approximately 350 cy) was completed at Area 4 than originally anticipated.

Analytical results from all Area 4 confirmation samples demonstrated MTCA Method A soil CULs for TPH-D, GRO, and naphthalenes (see Table 4) were met. The Area 4 excavation removed and disposed of approximately 715 tons of impacted soils.

# 4.3.1.5 Backfill

Excavation areas were backfilled with reused clean overburden stockpiled during excavation and clean fill purchased from a stockpile owned by the Port of Camas-Washougal. Soil was placed directly into the excavated areas, then compacted with an excavator-mounted pinwheel. Once the excavations could be accessed safely, further compaction was achieved by rolling over the fill area three times with a CAT 325D excavator. The final grade was placed to match the original grade. The backfilled excavations were hydroseeded in order to restore the Property to preexisting conditions.

# 4.4 Summary

Approximately 1,560 tons of contaminated soil was removed from the four areas on the Property. Analysis of confirmation samples collected from the extents of the excavations indicate that soil contaminated above applicable MTCA Method A CULs was removed. Once removal of contaminated soil was confirmed, clean backfill was placed and compacted in each excavation area, restoring grade to preexisting conditions.

# **D** GROUNDWATER REMEDIAL ACTION

# 5.1 Site Conditions

The RI/FS for the Property concluded that groundwater on the Property exceeded MCTA Method A CULs for TPH-D near and just downgradient of a former diesel UST. The groundwater flow direction mimics topography at the Property and flows toward the southwest (see Figure 2). Groundwater impacts are limited to a small area in the former operational area of the Property. Impacted monitoring wells include MW01 and MW03 but groundwater impacts do not extend to MW07.

Additional groundwater parameters were established in January 2015 to refine the injection solution needed to optimize the breakdown of contaminants on the Property. Groundwater injections are scheduled to begin in the second quarter of 2015. It is anticipated that multiple years may be needed to degrade contaminants to below MTCA Method A groundwater CULs. After injections are completed, groundwater will be monitored quarterly for one year and semiannually thereafter. Groundwater monitoring details are included in the groundwater monitoring plan found in Appendix G.

In addition, until groundwater concentrations reach CULs, institutional controls will be necessary to limit the use of groundwater on the impacted portions of the Property. An environmental covenant (see Appendix H) will be filed with Clark County to restrict groundwater use until CULs have been achieved.

# **Ó** FINAL INSPECTION

CERTIFICATION

The final inspection of the soil SRA work was completed on March 27, 2015. Areas 1 through 4 were returned to previously existing conditions, consistent with the work order. Work contracted for the project is deemed completed.

The construction oversight and final inspection described in this report were performed by MFA on behalf of GSSI for all activities related to the excavation, removal of contaminated soils, confirmation soil sampling, backfilling, and decommissioning of the monitoring well. Based on the observations made during construction, it is the opinion of the engineer that the soil SRA at the Property was completed in accordance with standard trade practices, in compliance with the technical specifications, and in accordance with the design intent.

# B RECOMMENDATIONS

MFA recommends the following actions as a result of the completed soil RA:

- Groundwater in situ injections should be completed.
- Groundwater monitoring should be completed as planned until four consecutive monitoring events indicate that groundwater is below MTCA Method A CULs.
- An environmental covenant prohibiting the use of groundwater should be placed on the Property until four consecutive monitoring events indicate that groundwater is below MTCA Method A CULs.
- A conditional No Further Action determination should be issued by Ecology.

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

MFA. 2015. 32<sup>nd</sup> street property remedial action RFQ (Work Plan). Prepared for McDonald Excavating. Maul Foster and Alongi, Inc., Vancouver, Washington. January 12.

MFA. 2014. Remedial investigation and feasibility report: 32<sup>nd</sup> street property. Prepared for George Schmid & Sons, Inc. Maul Foster and Alongi, Inc., Vancouver, Washington. October 17.

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# TABLES



# Table 1Excavation Area 1 Soil Confirmation Results (mg/kg)32nd Street PropertyWashougal, Washington

Excavation:		Excavation Area 1								
	Location:	Base		East Wall	North Wall	South Wall		West Wall		
Sample Name:		TP01-B1-15	TP01-B2-17.0	TP01-E1-13	TP01-N1-12	TP01-S1-13.5	TP01-S2-10.0	TP01-W1-12.5		
Collection Date:		02/18/2015	02/20/2015	02/18/2015	02/18/2015	02/18/2015	02/20/2015	02/18/2015		
Collection Dep	th (ft bgs):	15	17	13	12	13.5	10	12.5		
	MTCA A									
Polycyclic Aromatic Hydrocar	bons									
1-Methylnaphthalene	NV	0.0359	0.00894 U	0.00864 U	1.22	0.0107	0.0082 U	0.00878 U		
2-Methylnaphthalene	NV	0.00859 U	0.00894 U	0.00864 U	0.615	0.00837 U	0.0082 U	0.00878 U		
Benzo(a)anthracene	NV	0.0796	0.00894 U	0.00864 U	0.0185	0.255	0.0082 U	0.027		
Benzo(a)pyrene	0.1	0.196	0.00894 U	0.0153	0.0208	0.495	0.01	0.0575		
Benzo(b)fluoranthene	NV	0.219	0.00894 U	0.0214	0.0286	0.529	0.0123	0.0584		
Benzo(k)fluoranthene	NV	0.0382	0.00894 U	0.00959	0.00866 U	0.162	0.0082 U	0.0136		
Chrysene	NV	0.148	0.00894 U	0.00864 U	0.0174	0.328	0.0082 U	0.0409		
Dibenzo(a,h)anthracene	NV	0.0338	0.00894 U	0.00864 U	0.00866 U	0.0692	0.0082 U	0.0104		
Indeno(1,2,3-cd)pyrene	NV	0.121	0.00894 U	0.0135	0.0166	0.309	0.0082 U	0.0337		
cPAH TEQ	0.1	0.247	0.00675 U	0.0207	0.0282	0.631	0.0129	0.0722		
Total Petroleum Hydrocarbons	i									
Diesel	2000	132 J+	20.1 U	38.2	1140	133	18.4 U	82.2 J+		
Hydraulic Oil	2000						663			
Lube Oil	2000	753	67 U	181	285	107	61.4 U	520 J		
TPH-D	2000	885	43.6 U	219.2	1425	240	702.9	602.2		

# Table 1Excavation Area 1 Soil Confirmation Results (mg/kg)32nd Street PropertyWashougal, Washington

# Table 2 Excavation Area 2 Soil Confirmation Results (mg/kg) 32nd Street Property Washougal, Washington

Exca	avation:	Excavation Area 2							
Lo	cation:	Base	East Wall	North Wall	South Wall	West Wall			
Sample	Name:	TP02-B1-5	TP02-B1-5 TP02-E1-4.0 TP02-N1-4.0 TP0		TP02-S1-4.0	TP02-W1-4.5			
Collection Date:		02/19/2015	02/19/2015	02/19/2015	02/18/2015	02/18/2015			
Collection Depth (ft bgs):		5.0	4.0	4.0	4.0	4.5			
	MTCA A								
Total Petroleum Hyd	drocarbon	IS							
Diesel	2000	20 U	19.8 U	20.6 U	16.3 U	43.1			
Hydraulic Oil	2000								
Lube Oil	2000	66.6 U	65.9 U	68.5 U	124	297			
TPH-D 2000		43.3 U	42.9 U	44.6 U	132.2	340.1			
NOTES									

NOTES:

Non-detect results are not evaluated against screening criteria.

-- = not analyzed/not applicable.

ft bgs = feet below ground surface.

mg/kg = milligrams per kilogram.

MTCA A = Model Toxics Control Act Method A, unrestricted land use.

TPH-D = sum of diesel-range and heavy-oil range organics.

U = not detected.

# Table 3 Excavation Area 3 Soil Confirmation Results (mg/kg) 32nd Street Property Washougal, Washington

Exca	avation:	Excavation Area 3							
Lo	ocation:	Base	East Wall	North Wall	South Wall	West Wall			
Sample Name:		TP03-B1-1.5	TP03-E1-1.0	TP03-N1-1.0	TP03-S1-1.0	TP03-W1-1.0			
Collection Date:		02/19/2015	02/19/2015	02/19/2015	02/19/2015	02/19/2015			
Collection Depth (ft bgs):		1.5	1.5 1.0 1.0		1.0	1.0			
	MTCA A								
Total Petroleum Hyd									
Diesel	2000	40.8 J	67.8 J	57.8 J	43.5 J	117 J			
Lube Oil	2000	146	325	261	271	495			
TPH-D 2000		186.8	392.8	318.8	314.5	612			

NOTES:

Non-detect results are not evaluated against screening criteria.

ft bgs = feet below ground surface.

J = Result is estimated value.

mg/kg = milligrams per kilogram.

MTCA A = Model Toxics Control Act Method A, unrestricted land use.

TPH-D = sum of diesel-range and heavy-oil range organics.

# Table 4 Excavation Area 4 Soil Confirmation Results (mg/kg) 32nd Street Property Washougal, Washington

Excavation:		Excavation Area 4						
Location:		Base	East Wall	North Wall	South Wall	West Wall		
Sample	Name:	TP04-B1-15.0	TP04-E1-9.5	TP04-N1-10.0	TP04-S1-10.5	TP04-W2-11.0		
Collection	n Date:	02/19/2015	02/19/2015	02/19/2015	02/19/2015	02/19/2015		
Collection Depth	(ft bgs):	15	9.5	10	10.5	11		
	MTCA A					•		
Volatile Organic Compounds					2			
1,1,1,2-Tetrachloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1,1-Trichloroethane	2	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1,2,2-Tetrachloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1,2-Trichloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1-Dichloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1-Dichloroethene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,1-Dichloropropene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2,3-Trichlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2,3-Trichloropropane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2,4-Trichlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2,4-Trimethylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2-Dibromo-3-chloropropane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2-Dibromoethane	0.005	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2-Dichlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2-Dichloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,2-Dichloropropane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,3,5-Trimethylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,3-Dichlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,3-Dichloropropane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
1,4-Dichlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
2,2-Dichloropropane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
2-Butanone	NV	0.0649 U	0.0591 U	0.066 U	0.0597 U	0.0244 U		
2-Chlorotoluene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
2-Hexanone	NV	0.0324 U	0.0295 U	0.033 U	0.0299 U	0.0244 U		
4-Chlorotoluene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
4-Isopropyltoluene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
4-Methyl-2-pentanone	NV	0.0649 U	0.0591 U	0.066 U	0.0597 U	0.0244 U		
Acetone	NV	0.162 U	0.148 U	0.165 U	0.149 U	0.0609 U		
Benzene	0.03	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Bromobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Bromodichloromethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Bromoform	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Bromomethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Carbon disulfide	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		
Carbon tetrachloride	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U		

# Table 4 Excavation Area 4 Soil Confirmation Results (mg/kg) 32nd Street Property Washougal, Washington

Exca	Excavation Area 4						
Lo	cation:	Base	East Wall	North Wall	South Wall	West Wall	
Sample	Name:	TP04-B1-15.0	TP04-E1-9.5	TP04-N1-10.0	TP04-S1-10.5	TP04-W2-11.0	
Collectio	n Date:	02/19/2015	02/19/2015	02/19/2015	02/19/2015	02/19/2015	
Collection Depth	(ft bgs):	15	9.5	10	10.5	11	
	MTCA A						
Chlorobenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Chlorobromomethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Chloroethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Chloroform	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Chloromethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
cis-1,2-Dichloroethene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
cis-1,3-Dichloropropene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Dibromochloromethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Dibromomethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Dichlorodifluoromethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Ethylbenzene	6	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Freon 113	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Hexachlorobutadiene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Isopropylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
m,p-Xylene	9	0.0324 U	0.0295 U	0.033 U	0.0299 U	0.0244 U	
Methyl tert-butyl ether	0.1	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Methylene chloride	0.02	0.0811 U	0.0739 U	0.0826 U	0.0746 U	0.0609 U	
Naphthalene	5	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
n-Butylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
n-Propylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
o-Xylene	9	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
sec-Butylbenzene	NV	0.0162 U	0.0148 U	0.0165	0.0149 U	0.0122 U	
Styrene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
tert-Butylbenzene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Tetrachloroethene	0.05	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Toluene	7	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
trans-1,2-dichloroethene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
trans-1,3-Dichloropropene	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Trichloroethene	0.03	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Trichlorofluoromethane	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Vinyl chloride	NV	0.0162 U	0.0148 U	0.0165 U	0.0149 U	0.0122 U	
Polycyclic Aromatic Hydrocarbo	Polycyclic Aromatic Hydrocarbons						
1-Methylnaphthalene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
2-Methylnaphthalene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Benzo(a)anthracene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Benzo(a)pyrene	0.1	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Benzo(b)fluoranthene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	

# Table 4 Excavation Area 4 Soil Confirmation Results (mg/kg) 32nd Street Property Washougal, Washington

Exca	Excavation Area 4						
Lc	ocation:	Base	East Wall	North Wall	South Wall	West Wall	
Sample Name:		TP04-B1-15.0	TP04-E1-9.5	TP04-N1-10.0	TP04-S1-10.5	TP04-W2-11.0	
Collectio	n Date:	02/19/2015	02/19/2015	02/19/2015	02/19/2015	02/19/2015	
Collection Depth	(ft bgs):	15	9.5	10	10.5	11	
	MTCA A						
Benzo(k)fluoranthene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Chrysene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Dibenzo(a,h)anthracene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Indeno(1,2,3-cd)pyrene	NV	0.00826 U	0.00736 U	0.00828 U	0.00844 U	0.00813 U	
Naphthalenes	5 <sup>a</sup>	0.01636 U	0.01476 U	0.01653 U	0.01589 U	0.01423 U	
сРАН ТЕО	0.1	0.00624 U	0.00556 U	0.00625 U	0.00637 U	0.00614 U	
Total Petroleum Hydrocarbons							
Gasoline	100	4.18 U	3.73 U	23.6 J	4.11 U	3.05 U	
Diesel	2000	18.6 U	16.5 U	447	19 U	18.3 U	
Lube Oil	2000	61.9 U	55.2 U	62 U	63.2 U	60.9 U	
TPH-D	2000	40.3 U	35.9 U	478	41.1 U	39.6 U	
NOTES:							
Non-detect results are not evaluated against screening criteria.							
cPAH TEQ = carcinogenic polycyclic aromatic hydrocarbon toxicity equivalent.							

CUL = cleanup level.

ft bgs = feet below ground surface.

J = Result is estimated value.

mg/kg = milligrams per kilogram.

MTCA A = Model Toxics Control Act Method A, unrestricted land use.

TPH-D = sum of diesel-range and heavy-oil range organics.

U = not detected.

<sup>a</sup>Naphthalene value.

# Table Notes Soil Results 32nd Street Property

Bold results exceed MTCA Method A soil CULs for unrestricted land use.

-- = not ananalyzed/not applicable.

cPAH TEQ = carcinogenic polycyclic aromatic hydrocarbon toxicity equivalent.

ft bgs = feet below ground surface.

J = Result is estimated value.

J+ = Result is estimated value and may be biased high.

mg/kg = milligrams per kilogram.

MTCA A = Model Toxics Control Act Method A soil cleanup level, unrestricted land use.

ND = not detected.

NV = no value.

TPH-D = Sum of diesel-range, hydraulic oil-range, and lube-oil-range hydrocarbons detections or half of method reporting limits if nondetect.

U = not detected.

<sup>a</sup>Sum of naphthalene, 1-methylnaphthalene, and 2-methylnephthalene detections or half of method reporting limits if nondetect.

# FIGURES







-04 Produced By: rmaronn Approved By: jpounds Print Date: 4/24/2015





Source: Aerial photograph obtained from Esri ArcGIS Online.

<u>Notes:</u> ft bgs = feet below groundsurface sq ft = square feet



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

# Legend

- O Sample Location
- Monitoring Well
- Decommisioned Well (2/17/2015)
- Outfall (Approximate)
  - Excavation Areas
- Subject Property
- Groundwater Flow Direction

# Figure 2 Completed Soil Remediation

32<sup>nd</sup> Street Property George Schmid & Sons, Inc. Washougal, Washington









Date February 17, 2015

Remedial Action Area 1 Excavation

#### **Description**

Clean overburden is excavated from Area 1 and stockpiled for later backfill.

# Photograph 2

Date February 18, 2015

Remedial Action Area 1 Excavation

**Description** North excavation wall.

# **Photographs**

Project Name: Project Number: Location:

e: George Schmid & Sons—32nd St. Soil Remedial Action ber: 0564.02.03 1411 32nd Street, Washougal, Washington





Date February 18, 2015

Remedial Action Area 1 Excavation

**Description** East excavation wall.

# **PHOTOGRAPHS**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington





Date February 18, 2015

Remedial Action Area 1 Excavation

**Description** South excavation wall.





Date February 18, 2015

Remedial Action Area 1 Excavation

**Description** 

West excavation. In background, Area 1 stockpile of clean overburden.

# **PHOTOGRAPHS**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



## Photograph 6

Date February 18, 2015

Remedial Action Area 2 Excavation

#### **Description**

Contaminated material is excavated into a truck to be disposed of at a RCRA Subtitle D landfill.





Date February 18, 2015

Remedial Action Area 2 Excavation

**Description** Excavation of Area 2.

# **PHOTOGRAPHS**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



## Photograph 8

Date February 18, 2015

Remedial Action Area 4 Excavation

**Description** Contaminated sandy loam at approximately 6 feet bgs.





Date February 19, 2015

Remedial Action Area 4 Excavation

**Description** The north wall of excavation Area 4.

# **PHOTOGRAPHS**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



# Photograph 10

Date February 19, 2015

#### Remedial Action Area 4 Excavation

Area 4 Excavation

#### **Description**

At approximately 15 feet bgs, groundwater was encountered on the east side of the excavation.





Date February 19, 2015

**<u>Remedial Action</u>** Area 4 Excavation

#### **Description**

In order to minimize groundwater leaving the excavation area, the excavator bucket was allowed to drain after each scoop prior to loading.

# **Photographs**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



#### Photograph 12

Date February 19, 2015

Remedial Action Area 4 Excavation

#### **Description**

On the south wall of excavation Area 4, approximately 3 feet of overexcavation was applied in order to remove potentially contaminated soils.





Date February 19, 2015

**Remedial Action** Area 4 Excavation

Description A view of excavation Area 4 facing east.

# **PHOTOGRAPHS**

Project Name: Project Number: Location:

George Schmid & Sons-32nd St. Soil Remedial Action 0564.02.03 1411 32nd Street, Washougal, Washington



## Photograph 14

Date February 19, 2015

**Remedial Action** Area 4 Excavation

**Description** A view of excavation Area 4 facing west.





<u>Date</u> February 18, 2015

## **<u>Remedial Action</u>** Sampling Soil

# Description

An example of soil likely to be contaminated, based on both olfactory and visual indications.

# **Photographs**

Project Name: Project Number: Location:

ne: George Schmid & Sons—32nd St. Soil Remedial Action
nber: 0564.02.03
1411 32nd Street, Washougal, Washington



# Photograph 16

Date February 20, 2015

#### **<u>Remedial Action</u>** Area 2 Excavation

## **Description**

Additional potentially contaminated soil from excavation Area 1 is stockpiled before being loaded and disposed of off site.




Date February 20, 2015

#### **Remedial Action**

Area 1 Excavation

#### **Description**

During excavation from 15 feet to 17.5 feet bgs in Area 1, groundwater is encountered, quickly filling the bottom of the excavation with over 1 foot of water. The water infiltrated overnight.

## **Photographs**

Project Name: Project Number: Location:

me: George Schmid & Sons—32nd St. Soil Remedial Action
mber: 0564.02.03
1411 32nd Street, Washougal, Washington



#### Photograph 18

Date February 19, 2015

Remedial Action Area 1 Excavation

**Description** 

Additional excavation of 12 feet to the south wall.





Date February 25, 2015

#### Remedial Action Area 2 Backfill

#### **Description**

Soil was backfilled by dumping clean soils into the excavation areas, then was compacted using the pinwheel shown.

### **Photographs**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



#### Photograph 20

Date February 20, 2015

Remedial Action Area 2 Backfill

#### **Description**

Area 2 is backfilled and compacted, once accessible by passes of the 325D Excavator.





<u>Date</u> March 27, 2015

## Remedial Action

Area 4 Finished Grade

#### **Description**

Area 4 was backfilled with clean soil, then topped with 50 tons of crushed surface base course and 50 tons of crushed surface top course to match existing grade.

## **Photographs**

Project Name:George Schmid & Sons—32nd St. Soil Remedial ActionProject Number:0564.02.03Location:1411 32nd Street, Washougal, Washington



#### Photograph 22

Date March 27, 2015

<u>Remedial Action</u> Area 4 Finished Grade

#### **Description**

Area 4 top course was loose when walked on, and will be compacted further upon tracking with heavy equipment.





<u>Date</u> March 27, 2015

#### **Remedial Action**

Areas 1 and 2 Finished Grade

#### **Description**

Areas 1 and 2 were backfilled with clean soil and compacted. Finished grade matches original grade.

## **PHOTOGRAPHS**

Project Name: Project Number: Location:

George Schmid & Sons—32nd St. Soil Remedial Action er: 0564.02.03 1411 32nd Street, Washougal, Washington



## APPENDIX B MONITORING WELL DECOMMISSIONING REPORT



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## APPENDIX C WORK PLAN SITE FIGURE





per local jusridictional requirements prior to adjacent soil excavation



Source: Aerial photograph obtained from Esri ArcGIS Online; sample locations collected using GeoXH 6000 Series GPS unit.

#### Notes:

- 1. All feature locations are historical, approximate, and based on general site descriptions.
- 2. GPS = Global positioning system



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

#### Legend

#### Soil Boring

- Soil & Groundwater Boring
- Surface Soil Sample Location
- Monitoring Wells
- Outfall (Approximate)
- Excavation Areas
- ----- Pressurized Sewer Line (approximate)
  - Subject Property
    - Silt Fence per City of Washougal Std. Erosion & Pollution Control Details Sheet 2

#### Remedial Action Work Plan 32<sup>nd</sup> Street Property

George Schmid and Sons, Inc. Washougal, Washington



## APPENDIX D LABORATORY ANALYTICAL RESULTS





11711 SE Capps Road, Ste B Clackamas, Oregon 97015 TEL: 503-607-1331 FAX: 503-607-1336 Website: <u>www.specialtyanalytical.com</u>

February 25, 2015

Alan Hughes Maul Foster & Alongi 400 E. Mill Plain Blvd. Suite 400 Vancouver, WA 98660 TEL: (360) 694-2691 FAX (360) 906-1958 RE: 32nd St Remedail Action / 0564.02.03 Dear Alan Hughes:

Order No.: 1502168

Specialty Analytical received 7 sample(s) on 2/18/2015 for the analyses presented in the following report.

REVISED REPORT: Please see case narrative for information on revision.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French Lab Director

#### **Case Narrative**

WO#:1502168Date:2/25/2015

#### **Specialty Analytical**

CLIENT:	Maul Foster & Alongi
Project:	32nd St Remedail Action / 0564.02.03

Report Revision 1

This report has been revised to add 1-methylnaphthalene and 2-methylnaphthalene to all samples that had cPAH's reported on at the clients request.

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/18/2015 8:45:00 AM

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-001

 Client Sample ID:
 TP01-E1-13

Result	RL	Qual	Unit	DF	Date Analyzed
	NWTPH-DX				Analyst: <b>BS</b>
38.2	19.4		mg/Kg-dry	1	2/19/2015 11:02:29 AM
181	64.8		mg/Kg-dry	1	2/19/2015 11:02:29 AM
97.8	50-150		%REC	1	2/19/2015 11:02:29 AM
	SW8270D				Analyst: <b>bda</b>
ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
15.3	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
21.4	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
9.59	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
13.5	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
83.7	42.6-128		%REC	1	2/19/2015 10:25:00 AM
81.6	21.7-155		%REC	1	2/19/2015 10:25:00 AM
93.1	44.9-155		%REC	1	2/19/2015 10:25:00 AM
	Result 38.2 181 97.8 ND ND 15.3 21.4 9.59 ND ND 13.5 83.7 81.6 93.1	Result         RL           38.2         19.4           38.2         19.4           181         64.8           97.8         50-150           SW8270D         SW8270L           ND         8.64           ND         8.64           15.3         8.64           21.4         8.64           9.59         8.64           ND         8.64           15.3         8.64           21.4         8.64           9.59         8.64           13.5         8.64           13.5         8.64           83.7         42.6-128           81.6         21.7-155           93.1         44.9-155	Result         RL         Qual           NWTPH-DX         19.4         181         64.8           38.2         19.4         181         64.8           97.8         50-150         50           SW8270D         SW8270D         10.4           ND         8.64         10.5           ND         8.64         15.3         8.64           15.3         8.64         10.5         9.59           9.59         8.64         10.5         8.64           ND         8.64         13.5         8.64           ND         8.64         13.5         8.64           13.5         8.64         13.5         8.64           83.7         42.6-128         81.6         21.7-155           93.1         44.9-155         14.9-155	Result         RL         Qual         Unit           38.2         19.4         mg/Kg-dry           38.2         19.4         mg/Kg-dry           181         64.8         mg/Kg-dry           97.8         50-150         %REC           SW8270D           ND         8.64         µg/Kg-dry           ND         8.64         µg/Kg-dry           ND         8.64         µg/Kg-dry           15.3         8.64         µg/Kg-dry           9.59         8.64         µg/Kg-dry           9.59         8.64         µg/Kg-dry           ND         8.64         µg/Kg-dry           9.53         8.64         µg/Kg-dry           ND         8.64         µg/Kg-dry           ND         8.64         µg/Kg-dry           13.5         8.64         µg/Kg-dry           83.7         42.6-128         %REC           81.6         21.7-155         %REC           93.1         44.9-155         %REC	Result         RL         Qual         Unit         DF           38.2         19.4         mg/Kg-dry         1           38.2         19.4         mg/Kg-dry         1           181         64.8         mg/Kg-dry         1           97.8         50-150         %REC         1           SW8270D          1         1           ND         8.64         µg/Kg-dry         1           ND         8.64         µg/Kg-dry         1           ND         8.64         µg/Kg-dry         1           15.3         8.64         µg/Kg-dry         1           9.59         8.64         µg/Kg-dry         1           9.59         8.64         µg/Kg-dry         1           ND         8.64         µg/Kg-dry         1           9.59         8.64         µg/Kg-dry         1      13.5         8.64         µg/Kg-dry         1           ND         8.64         µg/Kg-dry         1           13.5         8.64         µg/Kg-dry         1           13.5         8.64         µg/Kg-dry         1           83.7         42.6-128         %REC         1

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/18/2015 9:55:00 AM

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-002

 Client Sample ID:
 TP01-S1-13.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	133	18.8	A4	mg/Kg-dry	1	2/19/2015 11:32:29 AM
Lube Oil	107	62.7		mg/Kg-dry	1	2/19/2015 11:32:29 AM
Surr: o-Terphenyl	101	50-150		%REC	1	2/19/2015 11:32:29 AM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	10.7	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
2-Methylnaphthalene	ND	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Benz(a)anthracene	255	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Benzo(a)pyrene	495	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Benzo(b)fluoranthene	529	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Benzo(k)fluoranthene	162	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Chrysene	328	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Dibenz(a,h)anthracene	69.2	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Indeno(1,2,3-cd)pyrene	309	8.37		µg/Kg-dry	1	2/19/2015 10:51:00 AM
Surr: 2-Fluorobiphenyl	94.8	42.6-128		%REC	1	2/19/2015 10:51:00 AM
Surr: Nitrobenzene-d5	95.5	21.7-155		%REC	1	2/19/2015 10:51:00 AM
Surr: p-Terphenyl-d14	120	44.9-155		%REC	1	2/19/2015 10:51:00 AM

Date Reported: 25-Feb-15

**CLIENT:** 

Maul Foster & Alongi

Collection Date: 2/18/2015 9:12:00 AM

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-003

 Client Sample ID:
 TP01-N1-12

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	1140	19.5		mg/Kg-dry	1	2/19/2015 12:02:29 PM
Lube Oil	285	64.9		mg/Kg-dry	1	2/19/2015 12:02:29 PM
Surr: o-Terphenyl	125	50-150		%REC	1	2/19/2015 12:02:29 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	1220	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
2-Methylnaphthalene	615	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Benz(a)anthracene	18.5	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Benzo(a)pyrene	20.8	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Benzo(b)fluoranthene	28.6	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Benzo(k)fluoranthene	ND	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Chrysene	17.4	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Dibenz(a,h)anthracene	ND	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Indeno(1,2,3-cd)pyrene	16.6	8.66		µg/Kg-dry	1	2/19/2015 11:16:00 AM
Surr: 2-Fluorobiphenyl	95.1	42.6-128		%REC	1	2/19/2015 11:16:00 AM
Surr: Nitrobenzene-d5	86.0	21.7-155		%REC	1	2/19/2015 11:16:00 AM
Surr: p-Terphenyl-d14	136	44.9-155		%REC	1	2/19/2015 11:16:00 AM

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/18/2015 8:48:00 AM

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-004

 Client Sample ID:
 TP01-W1-12.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	82.2	19.8	К	mg/Kg-dry	1	2/19/2015 12:32:29 PM
Lube Oil	520	65.8		mg/Kg-dry	1	2/19/2015 12:32:29 PM
Surr: o-Terphenyl	102	50-150		%REC	1	2/19/2015 12:32:29 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
2-Methylnaphthalene	ND	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Benz(a)anthracene	27.0	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Benzo(a)pyrene	57.5	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Benzo(b)fluoranthene	58.4	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Benzo(k)fluoranthene	13.6	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Chrysene	40.9	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Dibenz(a,h)anthracene	10.4	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Indeno(1,2,3-cd)pyrene	33.7	8.78		µg/Kg-dry	1	2/19/2015 11:42:00 AM
Surr: 2-Fluorobiphenyl	111	42.6-128		%REC	1	2/19/2015 11:42:00 AM
Surr: Nitrobenzene-d5	97.4	21.7-155		%REC	1	2/19/2015 11:42:00 AM
Surr: p-Terphenyl-d14	72.5	44.9-155		%REC	1	2/19/2015 11:42:00 AM

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/18/2015 8:28:00 AM

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-005

 Client Sample ID:
 TP01-B1-15

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	132	19.3	К	mg/Kg-dry	1	2/19/2015 1:32:29 PM
Lube Oil	753	64.4		mg/Kg-dry	1	2/19/2015 1:32:29 PM
Surr: o-Terphenyl	106	50-150		%REC	1	2/19/2015 1:32:29 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	35.9	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
2-Methylnaphthalene	ND	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Benz(a)anthracene	79.6	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Benzo(a)pyrene	196	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Benzo(b)fluoranthene	219	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Benzo(k)fluoranthene	38.2	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Chrysene	148	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Dibenz(a,h)anthracene	33.8	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Indeno(1,2,3-cd)pyrene	121	8.59		µg/Kg-dry	1	2/19/2015 12:08:00 PM
Surr: 2-Fluorobiphenyl	111	42.6-128		%REC	1	2/19/2015 12:08:00 PM
Surr: Nitrobenzene-d5	90.4	21.7-155		%REC	1	2/19/2015 12:08:00 PM
Surr: p-Terphenyl-d14	66.0	44.9-155		%REC	1	2/19/2015 12:08:00 PM

Date Reported: 25-Feb-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-006

 Client Sample ID:
 TP02-W1-4.5

Collection Date: 2/18/2015 11:17:00 AM

Analyses	Result	Result RL Qual		Unit	DF	Date Analyzed
NWTPH-DX	1	WTPH-DX				Analyst: <b>BS</b>
Diesel	43.1	18.4		mg/Kg-dry	1	2/19/2015 2:02:29 PM
Lube Oil	297	61.4		mg/Kg-dry	1	2/19/2015 2:02:29 PM
Surr: o-Terphenyl	92.5	50-150		%REC	1	2/19/2015 2:02:29 PM

Date Reported: 25-Feb-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedail Action / 0564.02.03

 Lab ID:
 1502168-007

 Client Sample ID:
 TP02-S1-4.0

Collection Date: 2/18/2015 11:22:00 AM

Analyses	Result	Result RL Qual				Date Analyzed
NWTPH-DX	1	WTPH-DX				Analyst: <b>BS</b>
Diesel	ND	16.3		mg/Kg-dry	1	2/19/2015 2:32:29 PM
Lube Oil	124	54.5		mg/Kg-dry	1	2/19/2015 2:32:29 PM
Surr: o-Terphenyl	98.5	50-150		%REC	1	2/19/2015 2:32:29 PM

WO#: 1502168

25-Feb-15

Client: Project:	Maul Fost 32nd St R	ter & Alongi Remedail Action / 0564.02.03	3						ſ	festCode: N	WTPHD	K_S	
Sample ID: 0 Client ID: 0	CCV CCV	SampType: CCV Batch ID: 8950	TestCode TestNo	: NWTPHDX : NWTPH-Dx	_S (	Units: mg/Kg SW3545A		Prep Dat Analysis Dat	te: te: <b>2/19/2(</b>	015	RunNo: 1 SeqNo: 2	8944 51229	
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPE	0 RPDLimit	Qual
Diesel Lube Oil		869 445	15.0 50.0	999.0 499.5		0 0	87.0 89.0	85 85	115 115				
Sample ID:	MB-8950	SampType: MBLK	TestCode	: NWTPHDX	_S	Units: mg/Kg		Prep Dat	te: 2/18/20	)15	RunNo: 1	8944	
Client ID:	PBS	Batch ID: 8950	TestNo	: NWTPH-Dx	¢	SW3545A		Analysis Dat	te: <b>2/19/2(</b>	)15	SeqNo: 2	51230	
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	0 RPDLimit	Qual
Diesel Lube Oil Surr: o-Tei	erphenyl	ND ND 30.8	15.0 50.0	33.33			92.5	50	150				
Sample ID: I	LCS-8950	SampType: LCS	TestCode	: NWTPHDX	_s	Units: mg/Kg		Prep Dat	te: <b>2/18/2(</b>	)15	RunNo: 1	8944	
Client ID:	LCSS	Batch ID: 8950	TestNo	: NWTPH-Dx	¢	SW3545A		Analysis Dat	te: <b>2/19/2(</b>	)15	SeqNo: 2	51231	
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	0 RPDLimit	Qual
Diesel Lube Oil		148 153	15.0 50.0	166.7 166.7		0 0	88.8 92.0	76.3 69.9	125 127				
Sample ID: 1	1502168-004ADUP	SampType: <b>DUP</b>	TestCode	: NWTPHDX	_s	Units: mg/Kg-	dry	Prep Dat	te: <b>2/18/2(</b>	)15	RunNo: 1	8944	
Client ID:	TP01-W1-12.5	Batch ID: 8950	TestNo	: NWTPH-Dx	c	SW3545A		Analysis Dat	te: <b>2/19/2(</b>	015	SeqNo: 2	51236	
Analyte		Result	PQL	SPK value	SP	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	) RPDLimit	Qual
Qualifiers:	B Analyte dete O RSD is grea	ected in the associated Method Blank ter than RSDlimit		H Holding R RPD or	g tin utsid	nes for preparation le accepted recover	or analysis y limits	sexceeded	ND S	Not Detected at the Spike Recovery ou	e Reporting Li	mit ] recov	Page 1 of 6

## **Specialty Analytical**

6

WO#: 1502168

Client: Project:	Maul Foster 32nd St Rer	e & Alongi nedail Action / 0564.02.03							Т	estCode: 1	NWTPHDX_	S	
Sample ID:	1502168-004ADUP	SampType: <b>DUP</b>	TestCode	: NWTPHDX	_S	Units: mg/Kg-	dry	Prep Dat	te: <b>2/18/20</b>	15	RunNo: 189	944	
Client ID:	TP01-W1-12.5	Batch ID: 8950	TestNo	: NWTPH-Dx	C	SW3545A		Analysis Dat	te: <b>2/19/20</b>	15	SeqNo: 251	1236	
Analyte		Result	PQL	SPK value	SP	'K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		126	19.8							82.19	42.1	20	RK
Lube Oil		767	65.8							520.4	38.3	20	R
Sample ID:	ссу	SampType: CCV	TestCode	e: NWTPHDX	_S	Units: <b>mg/Kg</b>		Prep Dat	ie:		RunNo: 189	944	
Client ID:	CCV	Batch ID: 8950	TestNo	: NWTPH-Dx	C	SW3545A		Analysis Dat	te: <b>2/19/20</b>	15	SeqNo: 251	240	
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		1430	15.0	1332		0	107	85	115				
Lube Oil		755	50.0	666.0		0	113	85	115				
Sample ID:	ССВ	SampType: CCB	TestCode	: NWTPHDX	_S	Units: <b>mg/Kg</b>		Prep Dat	e:		RunNo: 189	944	
Client ID:	ССВ	Batch ID: 8950	TestNo	: NWTPH-Dx	c	SW3545A		Analysis Dat	te: <b>2/19/20</b>	15	SeqNo: 251	1241	
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	15.0										
Lube Oil		ND	50.0										
Surr: o-T	erphenyl	31.4		33.30			94.4	50	150				
Sample ID:	1502150-003ADUP	SampType: DUP	TestCode	: NWTPHDX	_S	Units: mg/Kg-	dry	Prep Dat	te: <b>2/19/20</b>	15	RunNo: 189	944	
Client ID:	ZZZZZZ	Batch ID: 8950	TestNo	: NWTPH-Dx	C	SW3545A		Analysis Dat	te: <b>2/19/20</b>	15	SeqNo: 251	1245	
Analyte		Result	PQL	SPK value	SP	'K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Qualifiers:	<ul><li>B Analyte detect</li><li>O RSD is greater</li></ul>	ed in the associated Method Blank than RSDlimit		H Holding R RPD or	g tin utsid	nes for preparation e accepted recover	or analysis y limits	exceeded	ND N S S	Not Detected at th Spike Recovery or	e Reporting Limi utside accepted re	t F	Page 2 of 6

**Specialty Analytical** 

WO#: 1502168

Client: Project:	Maul Foste 32nd St Rea	r & Alongi medail Action / 0564.02.03	3					T	CestCode: N	WTPHDX_	_S	
Sample ID: Client ID:	1502150-003ADUP ZZZZZZ	SampType: <b>DUP</b> Batch ID: <b>8950</b>	TestCo TestN	de: NWTPHDX No: NWTPH-Dx	_S Units: mg/Kg c SW3545A	-dry	Prep Da Analysis Da	te: 2/19/20 te: 2/19/20	15 15	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 1	)44 1245	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		90.6 74.7	19.0 63.3						67.98 69.77	28.5 6.78	20 20	RA4
Sample ID: Client ID:	CCV CCV	SampType: CCV Batch ID: 8950	TestCo TestN	de: NWTPHDX No: NWTPH-Dx	_S Units: mg/Kg c SW3545A		Prep Da Analysis Da	te: te: <b>2/19/20</b>	15	RunNo: 189 SeqNo: 251	)44 1362	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		874 426	15.0 50.0	999.0 499.5	0 0	87.4 85.3	85 85	115 115				

#### **Specialty Analytical**

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 3 of 6

WO#: 1502168

25-Feb-15

Client: Project:	Maul Foster & Alongi 32nd St Remedail Action / 0564.02.	)3					Т	estCode: 1	PAHLL_S		
Sample ID: CCV-8	951 SampType: CCV	TestCoo	de: PAHLL_S	Units: µg/Kg		Prep Dat	te:		RunNo: 189	36	
Client ID: CCV	Batch ID: 8951	TestN	lo: <b>SW8270D</b>	SW 3545A		Analysis Dat	te: <b>2/19/20</b> 1	15	SeqNo: 251	148	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalen	e 121	6.67	133.3	0	91.0	80	120				
2-Methylnaphthalen	e 117	6.67	133.3	0	87.5	80	120				
Benz(a)anthracene	129	6.67	133.3	0	96.4	80	120				
Benzo(a)pyrene	143	6.67	133.3	0	107	80	120				
Benzo(b)fluoranther	ie 139	6.67	133.3	0	105	80	120				
Benzo(k)fluoranther	e 141	6.67	133.3	0	106	80	120				
Chrysene	115	6.67	133.3	0	86.5	80	120				
Dibenz(a,h)anthrace	ne 119	6.67	133.3	0	89.2	80	120				
Indeno(1,2,3-cd)pyr	ene 124	6.67	133.3	0	92.9	80	120				
Sample ID: LCS-89	151 SampType: LCS	TestCoo	de: PAHLL_S	Units: µg/Kg		Prep Dat	te: <b>2/18/20</b> 1	15	RunNo: 189	36	
Client ID: LCSS	Batch ID: 8951	TestN	lo: SW8270D	SW 3545A		Analysis Dat	te: <b>2/19/20</b> 1	15	SeqNo: 251	149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalen	e 229	6.67	333.4	0	68.7	29.1	109				
2-Methylnaphthalen	e 237	6.67	333.4	0	71.1	29.1	109				
Benz(a)anthracene	322	6.67	333.4	0	96.6	48.4	121				
Benzo(a)pyrene	314	6.67	333.4	0	94.2	37.7	137				
Benzo(b)fluoranther	e 363	6.67	333.4	0	109	58.6	117				
Benzo(k)fluoranther	e 340	6.67	333.4	0	102	46.1	124				
Chrysene	296	6.67	333.4	0	88.8	57.1	130				
Dibenz(a,h)anthrace	ene 336	6.67	333.4	0	101	44.2	124				
Indeno(1,2,3-cd)pyr	ene 339	6.67	333.4	0	102	47.9	121				

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 4 of 6

WO#: **1502168** 

25-Feb-15

Client: Project:	Maul Foste 32nd St Re	r & Alongi medail Action / 0564.02.03	3					ſ	TestCode: P	AHLL_S		
Sample ID: MB-89	51	SampType: <b>MBLK</b>	TestCo	de: <b>PAHLL_S</b>	Units: µg/Kg		Prep Da	te: 2/18/20	)15	RunNo: 189	36	
Client ID: PBS		Batch ID: 8951	Test	No: SW8270D	SW 3545A		Analysis Da	te: 2/19/20	015	SeqNo: 251	150	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalen	е	ND	6.67									
2-Methylnaphthalen	e	ND	6.67									
Benz(a)anthracene		ND	6.67									
Benzo(a)pyrene		ND	6.67									
Benzo(b)fluoranther	ne	ND	6.67									
Benzo(k)fluoranther	ne	ND	6.67									
Chrysene		ND	6.67									
Dibenz(a,h)anthrace	ene	ND	6.67									
Indeno(1,2,3-cd)pyr	ene	ND	6.67									
Surr: 2-Fluorobipl	henyl	5.20		6.667		78.0	42.6	128				
Surr: Nitrobenzer	ne-d5	5.54		6.667		83.1	21.7	155				
Surr: p-Terpheny	l-d14	6.44		6.667		96.6	44.9	155				
Sample ID: 150216	8-001AMS	SampType: <b>MS</b>	TestCo	de: PAHLL_S	Units: µg/Kg-	dry	Prep Da	te: <b>2/18/20</b>	)15	RunNo: 189	36	
Client ID: TP01-E	51-13	Batch ID: 8951	Test	lo: <b>SW8270D</b>	SW 3545A		Analysis Da	te: <b>2/19/20</b>	)15	SeqNo: 251	191	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalen	е	315	8.64	431.8	1.065	72.6	27.7	108				
2-Methylnaphthalen	е	319	8.64	431.8	0.7342	73.8	27.7	108				
Benz(a)anthracene		403	8.64	431.8	7.304	91.5	63.4	121				
Benzo(a)pyrene		433	8.64	431.8	15.28	96.7	64.6	110				
Benzo(b)fluoranther	ne	476	8.64	431.8	21.39	105	41.6	172				
Benzo(k)fluoranther	ne	341	8.64	431.8	9.587	76.8	47.9	140				
Chrysene		382	8.64	431.8	7.840	86.7	37.5	125				
Qualifiers: B O	Analyte detec RSD is greate	ted in the associated Method Blank r than RSDlimit		H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	exceeded	ND S	Not Detected at the Spike Recovery ou	Reporting Limitstic accepted re	t F	Page 5 of 6

Specialty Analytical

WO#: 1502168

25-Feb-15

Client:Maul FosterProject:32nd St Rer	: & Alongi nedail Action / 0564.02.0	)3					Т	estCode: P	AHLL_S		
Sample ID: 1502168-001AMS	SampType: <b>MS</b>	TestCo	de: PAHLL_S	Units: µg/k	(g-dry	Prep Da	te: 2/18/20	15	RunNo: 189	936	
Client ID: TP01-E1-13	Batch ID: 8951	Test	No: SW8270D	SW 3545A		Analysis Da	te: 2/19/20	15	SeqNo: 251	1191	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	394	8.64	431.8	5.873	90.0	23.6	125				
Indeno(1,2,3-cd)pyrene	427	8.64	431.8	13.53	95.8	26.8	133				
Sample ID: 1502168-001AMSD	SampType: <b>MSD</b>	TestCo	de: PAHLL_S	Units: µg/k	(g-dry	Prep Da	te: <b>2/18/20</b>	15	RunNo: 189	936	
Client ID: TP01-E1-13	Batch ID: 8951	Test	No: SW8270D	SW 3545A		Analysis Da	te: <b>2/19/20</b>	15	SeqNo: 251	1210	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	317	8.64	431.8	1.065	73.1	27.7	108	314.5	0.664	20	
2-Methylnaphthalene	307	8.64	431.8	0.7342	71.0	27.7	108	319.2	3.79	20	
Benz(a)anthracene	416	8.64	431.8	7.304	94.6	63.4	121	402.6	3.20	20	
Benzo(a)pyrene	475	8.64	431.8	15.28	106	64.6	110	432.7	9.24	20	
Benzo(b)fluoranthene	486	8.64	431.8	21.39	108	41.6	172	476.0	2.06	20	
Benzo(k)fluoranthene	348	8.64	431.8	9.587	78.3	47.9	140	341.1	1.87	20	
Chrysene	393	8.64	431.8	7.840	89.3	37.5	125	382.0	2.92	20	
Dibenz(a,h)anthracene	460	8.64	431.8	5.873	105	23.6	125	394.3	15.3	20	
Indeno(1,2,3-cd)pyrene	486	8.64	431.8	13.53	109	26.8	133	427.1	12.9	20	

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

led ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 6 of 6

#### **KEY TO FLAGS**

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- \* The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

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11711 SE Capps Road, Ste B Clackamas, Oregon 97015 TEL: 503-607-1331 FAX: 503-607-1336 Website: <u>www.specialtyanalytical.com</u>

February 24, 2015

Alan Hughes Maul Foster & Alongi 400 E. Mill Plain Blvd. Suite 400 Vancouver, WA 98660 TEL: (360) 694-2691 FAX (360) 906-1958 RE: 32nd St Remedial Action / 0564.02.03 Dear Alan Hughes:

Order No.: 1502183

Specialty Analytical received 3 sample(s) on 2/20/2015 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French Lab Director

CLIENT: Project:	Maul Foster & Along 32nd St Remedial Ad	gi etion / 0564.02	.03		I	Lab Ord	ler: 1502183
Lab ID:	1502183-001			Colle	ction Date:	2/19/20	15 9:30:00 AM
<b>Client Sample ID:</b>	<b>TP02-N1-4.0</b>				Matrix:	SOIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
		N	WTPH-DX				Analyst: <b>BS</b>
Diesel		ND .	20.6		mg/Kg-dry	1	2/23/2015 5:10:18 PM
Lube Oil		ND	68.5		mg/Kg-dry	1	2/23/2015 5:10:18 PM
Surr: o-Terphenyl		88.8	50-150		%REC	1	2/23/2015 5:10:18 PM
Lab ID:	1502183-002			Colle	ction Date:	2/19/20	15 9:20:00 AM
Client Sample ID:	: TP02-B1-5				Matrix:	SOIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		Ν	WTPH-DX				Analyst: <b>BS</b>
Diesel		ND	20.0		mg/Kg-dry	1	2/23/2015 5:32:18 PM
Lube Oil		ND	66.6		mg/Kg-dry	1	2/23/2015 5:32:18 PM
Surr: o-Terphenyl		84.4	50-150		%REC	1	2/23/2015 5:32:18 PM
Lab ID:	1502183-003			Colle	ction Date:	2/19/20	15 9:35:00 AM
Client Sample ID:	<b>TP02-E1-4.0</b>				Matrix:	SOIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		Ν	WTPH-DX				Analyst: <b>BS</b>
Diesel		ND	19.8		mg/Kg-dry	1	2/23/2015 6:16:18 PM
Lube Oil		ND	65.9		mg/Kg-dry	1	2/23/2015 6:16:18 PM
Surr: o-Terphenyl		79.1	50-150		%REC	1	2/23/2015 6:16:18 PM

Date Reported: 24-Feb-15

WO#: 1502183

24-Feb-15

Client: Project:	Maul Foste 32nd St Re	r & Alongi medial Action / 0564.02.03							Т	estCode: N	WTPHDX	_S	
Sample ID: CO	cv cv	SampType: CCV Batch ID: 8954	TestCode TestNo	: NWTPHDX : NWTPH-D>	(_S	Units: mg/Kg SW3545A		Prep Dat Analysis Dat	e: e: <b>2/23/20</b>	15	RunNo: <b>18</b> SeqNo: <b>25</b>	976 1805	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		1010 447	15.0 50.0	999.0 499.5		0 0	101 89.4	85 85	115 115				
Sample ID: M	B-8954	SampType: MBLK	TestCode		_S	Units: mg/Kg		Prep Dat	e: <b>2/20/20</b>	15	RunNo: 18	976	
Client ID: PE	BS	Batch ID: 8954	TestNo	: NWTPH-D	¢	SW3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 25	1806	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil Surr: o-Terp	henyl	ND ND 33.1	15.0 50.0	33.33			99.2	50	150				
Sample ID: LC	CS-8954	SampType: LCS	TestCode	: NWTPHDX	_s	Units: <b>mg/Kg</b>		Prep Dat	e: <b>2/20/20</b>	15	RunNo: 18	976	
Client ID: LC	CSS	Batch ID: 8954	TestNo	NWTPH-D	¢	SW3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 25	1807	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		159 151	15.0 50.0	166.7 166.7		0 0	95.2 90.5	76.3 69.9	125 127				
Sample ID: 15	502176-003ADUP	SampType: <b>DUP</b>	TestCode	: NWTPHDX	_S	Units: mg/Kg-o	dry	Prep Dat	e: <b>2/20/20</b>	15	RunNo: 18	976	
Client ID: ZZ	ZZZZZ	Batch ID: 8954	TestNo	: NWTPH-D	C	SW3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 25	1811	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Qualifiers:	B Analyte detec O RSD is greate	ted in the associated Method Blank r than RSDlimit		H Holdin	g tim utside	es for preparation of accepted recovery	or analysis y limits	exceeded	ND 1 S S	Not Detected at the Spike Recovery ou	e Reporting Lim	it F	Page 1 of 2

## **Specialty Analytical**

WO#: 1502183

24-Feb-15

Client: Project:	Maul Foster 32nd St Rer	& Alongi nedial Action / 0564.02.03						Т	estCode: N	NWTPHDX_	_S	
Sample ID:	1502176-003ADUP	SampType: <b>DUP</b>	TestCode		_S Units: mg/K	g-dry	Prep Date	e: <b>2/20/20</b>	15	RunNo: 18	976	
Client ID:	ZZZZZZ	Batch ID: 8954	TestNo	NWTPH-Dx	sw3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 25	1811	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	19.2						0	0	20	
Lube Oil		ND	64.0						0	0	20	
Sample ID:	1502183-002ADUP	SampType: <b>DUP</b>	TestCode	NWTPHDX	_ <b>S</b> Units: <b>mg/K</b>	g-dry	Prep Date	e: <b>2/20/20</b>	15	RunNo: 18	976	
Client ID:	TP02-B1-5	Batch ID: 8954	TestNo	NWTPH-Dx	SW3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 25	1814	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	20.0						0	0	20	
Lube Oil		ND	66.6						0	200	20	RF
Sample ID:	ссу	SampType: CCV	TestCode		_ <b>S</b> Units: <b>mg/K</b>	g	Prep Date	ə:		RunNo: 18	976	
Client ID:	ссу	Batch ID: 8954	TestNo	NWTPH-Dx	SW3545A	-	Analysis Date	e: <b>2/24/20</b>	15	SeqNo: 25	1828	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		1040	15.0	999.0	0	104	85	115				
Lube Oil		443	50.0	499.5	0	88.8	85	115				

#### **Specialty Analytical**

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 2 of 2  $\,$ 

#### **KEY TO FLAGS**

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- \* The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

	CHAIN		USTOD	W REC				Page_	2 of 2	<u></u>
Specialty Analytical II711 SE Capps Road Clackamas, OR 97015 Phone: 503-607-1331 Fax: 503-607-1336			Contact Compar Address	Person/Pro W Ma. Van C	ect Manager 1 55He 2 E M	Ala V E A ill Pla	n Huytes thenging			
Collected By: Signature Zach C R Printed Zacharr Prue			Phone_ Project 1 Invoice	No. <u>O564</u> Site Location	.01.03 or	Projec	Fax t Name 32wd St Other P:0. h	Dened	iel Actn.	
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Date Time Sample I.D. 2/19/H のパスの オワムクェル1 - 4 - 2	Matrix	~					Comments		Lab I.D.	
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4 9:35 TP02-E1-4.0	S	×								
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Unless Rectaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)	)				Received F	or Lab By:	ard 0	Date 7/J0/15	Time 15:05	
									:	



11711 SE Capps Road, Ste B Clackamas, Oregon 97015 TEL: 503-607-1331 FAX: 503-607-1336 Website: <u>www.specialtyanalytical.com</u>

March 05, 2015

Alan Hughes Maul Foster & Alongi 400 E. Mill Plain Blvd. Suite 400 Vancouver, WA 98660 TEL: (360) 694-2691 FAX (360) 906-1958 RE: 32nd St Remedial Action / 0564.02.03 Dear Alan Hughes:

Order No.: 1502185

Specialty Analytical received 10 sample(s) on 2/20/2015 for the analyses presented in the following report.

REVISED REPORT: Please see case narrative for information on revision.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French Lab Director

#### **Case Narrative**

WO#:1502185Date:3/5/2015

#### **Specialty Analytical**

CLIENT:	Maul Foster & Alongi
Project:	32nd St Remedial Action / 0564.02.03

#### Report Revision 1

This report has been revised to add 1-methylnaphthalene and 2-methylnaphthalene to all samples that had cPAH's reported on at the clients request.

#### **Report Revision 2**

Upon further report review an error was found in reporting Hexane and not 1,1,2-Trichloro-1,2,2-trifluoroethane for sample -02,03,04,05. This report contains the correct analytes..

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/19/2015 1:58:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-001

 Client Sample ID:
 TP04-W2-11.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	18.3		mg/Kg-dry	1	2/23/2015 8:26:18 PM
Lube Oil	ND	60.9		mg/Kg-dry	1	2/23/2015 8:26:18 PM
Surr: o-Terphenyl	90.6	50-150		%REC	1	2/23/2015 8:26:18 PM
NWTPH-GX		NWTPH-GX				Analyst: <b>BS</b>
Gasoline	ND	3.05		mg/Kg-dry	1	2/25/2015 1:44:39 AM
Surr: 4-Bromofluorobenzene	53.3	50-150		%REC	1	2/25/2015 1:44:39 AM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
2-Methylnaphthalene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Benz(a)anthracene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Benzo(a)pyrene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Benzo(b)fluoranthene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Benzo(k)fluoranthene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Chrysene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Dibenz(a,h)anthracene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.13		µg/Kg-dry	1	2/23/2015 11:53:00 AM
Surr: 2-Fluorobiphenyl	99.5	42.6-128		%REC	1	2/23/2015 11:53:00 AM
Surr: Nitrobenzene-d5	98.1	21.7-155		%REC	1	2/23/2015 11:53:00 AM
Surr: p-Terphenyl-d14	106	44.9-155		%REC	1	2/23/2015 11:53:00 AM
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: <b>CK</b>
1,1,1,2-Tetrachloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1,1-Trichloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1,2,2-Tetrachloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1,2-Trichloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1-Dichloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1-Dichloroethene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,1-Dichloropropene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2,3-Trichlorobenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2,3-Trichloropropane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2,4-Trichlorobenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2,4-Trimethylbenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2-Dibromo-3-chloropropane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2-Dibromoethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2-Dichlorobenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
1,2-Dichloroethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM

Date Reported: 05-Mar-15

**CLIENT:** 

Maul Foster & Alongi

**Collection Date:** 2/19/2015 1:58:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-001

 Client Sample ID:
 TP04-W2-11.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: <b>CK</b>
1,2-Dichloropropane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
1,3,5-Trimethylbenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
1,3-Dichlorobenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
1,3-Dichloropropane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
1,4-Dichlorobenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
2,2-Dichloropropane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
2-Butanone	ND	24.4	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
2-Chlorotoluene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
2-Hexanone	ND	24.4	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
4-Chlorotoluene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
4-Isopropyltoluene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
4-Methyl-2-pentanone	ND	24.4	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Acetone	ND	60.9	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Benzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Bromobenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Bromochloromethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Bromodichloromethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Bromoform	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Bromomethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Carbon disulfide	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Carbon tetrachloride	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Chlorobenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Chloroethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Chloroform	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Chloromethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
cis-1,2-Dichloroethene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
cis-1,3-Dichloropropene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Dibromochloromethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Dibromomethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Dichlorodifluoromethane	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Ethylbenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Hexachlorobutadiene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Isopropylbenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
m,p-Xylene	ND	24.4	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Methyl tert-butyl ether	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Methylene chloride	ND	60.9	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Naphthalene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
n-Butylbenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
n-Propylbenzene	ND	12.2	μ	g/Kg-dry	1	2/23/2015 5:31:00 PM
Date Reported: 05-Mar-15

**CLIENT:** 

Maul Foster & Alongi

**Collection Date:** 2/19/2015 1:58:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-001

 Client Sample ID:
 TP04-W2-11.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		SW8260B				Analyst: <b>CK</b>
o-Xylene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
sec-Butylbenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Styrene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
tert-Butylbenzene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Tetrachloroethene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Toluene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
trans-1,2-Dichloroethene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
trans-1,3-Dichloropropene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Trichloroethene	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Trichlorofluoromethane	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Vinyl chloride	ND	12.2		µg/Kg-dry	1	2/23/2015 5:31:00 PM
Surr: 1,2-Dichloroethane-d4	95.7	71.5-112		%REC	1	2/23/2015 5:31:00 PM
Surr: 4-Bromofluorobenzene	116	75.7-122		%REC	1	2/23/2015 5:31:00 PM
Surr: Dibromofluoromethane	96.9	64.3-124		%REC	1	2/23/2015 5:31:00 PM
Surr: Toluene-d8	99.8	74.9-120		%REC	1	2/23/2015 5:31:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/19/2015 12:05:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-002

 Client Sample ID:
 TP04-E1-9.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	16.5		mg/Kg-dry	1	2/23/2015 8:48:18 PM
Lube Oil	ND	55.2		mg/Kg-dry	1	2/23/2015 8:48:18 PM
Surr: o-Terphenyl	89.3	50-150		%REC	1	2/23/2015 8:48:18 PM
NWTPH-GX		NWTPH-GX				Analyst: <b>BS</b>
Gasoline	ND	3.73		mg/Kg-dry	1	2/24/2015 4:29:21 PM
Surr: 4-Bromofluorobenzene	103	50-150		%REC	1	2/24/2015 4:29:21 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
2-Methylnaphthalene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Benz(a)anthracene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Benzo(a)pyrene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Benzo(b)fluoranthene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Benzo(k)fluoranthene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Chrysene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Dibenz(a,h)anthracene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	7.36		µg/Kg-dry	1	2/23/2015 12:18:00 PM
Surr: 2-Fluorobiphenyl	126	42.6-128		%REC	1	2/23/2015 12:18:00 PM
Surr: Nitrobenzene-d5	116	21.7-155		%REC	1	2/23/2015 12:18:00 PM
Surr: p-Terphenyl-d14	139	44.9-155		%REC	1	2/23/2015 12:18:00 PM
VOLATILE ORGANIC COMPOUNDS	BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,1,1,2-Tetrachloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1,1-Trichloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1,2,2-Tetrachloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1,2-Trichloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1-Dichloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1-Dichloroethene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,1-Dichloropropene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2,3-Trichlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2,3-Trichloropropane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2,4-Trichlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2,4-Trimethylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2-Dibromo-3-chloropropane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2-Dibromoethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2-Dichlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,2-Dichloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/19/2015 12:05:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-002

 Client Sample ID:
 TP04-E1-9.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOL	INDS BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,2-Dichloropropane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,3,5-Trimethylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,3-Dichlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,3-Dichloropropane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
1,4-Dichlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
2,2-Dichloropropane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
2-Butanone	ND	59.1		µg/Kg-dry	1	2/23/2015 3:16:00 PM
2-Chlorotoluene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
2-Hexanone	ND	29.5		µg/Kg-dry	1	2/23/2015 3:16:00 PM
4-Chlorotoluene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
4-Isopropyltoluene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
4-Methyl-2-pentanone	ND	59.1		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Acetone	ND	148		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Benzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Bromobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Bromochloromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Bromodichloromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Bromoform	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Bromomethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Carbon Disulfide	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Carbon tetrachloride	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Chlorobenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Chloroethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Chloroform	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Chloromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
cis-1,2-Dichloroethene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
cis-1,3-Dichloropropene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Dibromochloromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Dibromomethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Dichlorodifluoromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Ethylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Hexachlorobutadiene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Isopropylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
m,p-Xylene	ND	29.5		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Methyl tert-butyl ether	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Methylene Chloride	ND	73.9		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Naphthalene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
n-Butylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
n-Propylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/19/2015 12:05:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-002

 Client Sample ID:
 TP04-E1-9.5

Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS	SW8260B				Analyst: <b>CK</b>
o-Xylene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
sec-Butylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Styrene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
tert-Butylbenzene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Tetrachloroethene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Toluene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
trans-1,2-Dichloroethene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
trans-1,3-Dichloropropene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Trichloroethene	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Trichlorofluoromethane	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Vinyl Chloride	ND	14.8		µg/Kg-dry	1	2/23/2015 3:16:00 PM
Surr: 1,2-Dichloroethane-d4	104	71.5-112		%REC	1	2/23/2015 3:16:00 PM
Surr: 4-Bromofluorobenzene	105	75.7-122		%REC	1	2/23/2015 3:16:00 PM
Surr: Dibromofluoromethane	106	64.3-124		%REC	1	2/23/2015 3:16:00 PM
Surr: Toluene-d8	112	74.9-120		%REC	1	2/23/2015 3:16:00 PM

Page 6 of 20

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:12:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-003

 Client Sample ID:
 TP04-S1-10.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	19.0		mg/Kg-dry	1	2/23/2015 9:10:18 PM
Lube Oil	ND	63.2		mg/Kg-dry	1	2/23/2015 9:10:18 PM
Surr: o-Terphenyl	96.7	50-150		%REC	1	2/23/2015 9:10:18 PM
NWTPH-GX		NWTPH-GX				Analyst: <b>BS</b>
Gasoline	ND	4.11		mg/Kg-dry	1	2/24/2015 4:57:21 PM
Surr: 4-Bromofluorobenzene	106	50-150		%REC	1	2/24/2015 4:57:21 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
2-Methylnaphthalene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Benz(a)anthracene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Benzo(a)pyrene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Benzo(b)fluoranthene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Benzo(k)fluoranthene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Chrysene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Dibenz(a,h)anthracene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.44		µg/Kg-dry	1	2/23/2015 1:02:00 PM
Surr: 2-Fluorobiphenyl	115	42.6-128		%REC	1	2/23/2015 1:02:00 PM
Surr: Nitrobenzene-d5	114	21.7-155		%REC	1	2/23/2015 1:02:00 PM
Surr: p-Terphenyl-d14	128	44.9-155		%REC	1	2/23/2015 1:02:00 PM
VOLATILE ORGANIC COMPOUND	S BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,1,1,2-Tetrachloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1,1-Trichloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1,2,2-Tetrachloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1,2-Trichloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1-Dichloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1-Dichloroethene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,1-Dichloropropene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2,3-Trichlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2,3-Trichloropropane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2,4-Trichlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2,4-Trimethylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2-Dibromo-3-chloropropane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2-Dibromoethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2-Dichlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,2-Dichloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM

Date Reported: 05-Mar-15

**CLIENT:** 

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:12:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-003

 Client Sample ID:
 TP04-S1-10.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOU	INDS BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,2-Dichloropropane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,3,5-Trimethylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,3-Dichlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,3-Dichloropropane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
1,4-Dichlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
2,2-Dichloropropane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
2-Butanone	ND	59.7		µg/Kg-dry	1	2/23/2015 3:49:00 PM
2-Chlorotoluene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
2-Hexanone	ND	29.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
4-Chlorotoluene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
4-Isopropyltoluene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
4-Methyl-2-pentanone	ND	59.7		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Acetone	ND	149		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Benzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Bromobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Bromochloromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Bromodichloromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Bromoform	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Bromomethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Carbon Disulfide	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Carbon tetrachloride	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Chlorobenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Chloroethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Chloroform	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Chloromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
cis-1,2-Dichloroethene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
cis-1,3-Dichloropropene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Dibromochloromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Dibromomethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Dichlorodifluoromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Ethylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Hexachlorobutadiene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Isopropylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
m,p-Xylene	ND	29.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Methyl tert-butyl ether	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Methylene Chloride	ND	74.6		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Naphthalene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
n-Butylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
n-Propylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM

Date Reported: 05-Mar-15

**CLIENT:** 

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:12:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-003

 Client Sample ID:
 TP04-S1-10.5

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	BY GC/MS	SW8260B				Analyst: <b>CK</b>
o-Xylene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
sec-Butylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Styrene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
tert-Butylbenzene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Tetrachloroethene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Toluene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
trans-1,2-Dichloroethene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
trans-1,3-Dichloropropene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Trichloroethene	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Trichlorofluoromethane	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Vinyl Chloride	ND	14.9		µg/Kg-dry	1	2/23/2015 3:49:00 PM
Surr: 1,2-Dichloroethane-d4	105	71.5-112		%REC	1	2/23/2015 3:49:00 PM
Surr: 4-Bromofluorobenzene	108	75.7-122		%REC	1	2/23/2015 3:49:00 PM
Surr: Dibromofluoromethane	108	64.3-124		%REC	1	2/23/2015 3:49:00 PM
Surr: Toluene-d8	111	74.9-120		%REC	1	2/23/2015 3:49:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/19/2015 12:15:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-004

 Client Sample ID:
 TP04-N1-10.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	447	18.6		mg/Kg-dry	1	2/23/2015 9:31:18 PM
Lube Oil	ND	62.0		mg/Kg-dry	1	2/23/2015 9:31:18 PM
Surr: o-Terphenyl	137	50-150		%REC	1	2/23/2015 9:31:18 PM
NWTPH-GX		NWTPH-GX				Analyst: <b>BS</b>
Gasoline	23.6	4.22	А	mg/Kg-dry	1	2/24/2015 5:24:21 PM
Surr: 4-Bromofluorobenzene	107	50-150		%REC	1	2/24/2015 5:24:21 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	16.0	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
2-Methylnaphthalene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Benz(a)anthracene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Benzo(a)pyrene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Benzo(b)fluoranthene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Benzo(k)fluoranthene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Chrysene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Dibenz(a,h)anthracene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.28		µg/Kg-dry	1	2/23/2015 1:27:00 PM
Surr: 2-Fluorobiphenyl	94.4	42.6-128		%REC	1	2/23/2015 1:27:00 PM
Surr: Nitrobenzene-d5	117	21.7-155		%REC	1	2/23/2015 1:27:00 PM
Surr: p-Terphenyl-d14	150	44.9-155		%REC	1	2/23/2015 1:27:00 PM
VOLATILE ORGANIC COMPOUNDS	S BY GC/MS	SW8260B				Analyst: CK
1,1,1,2-Tetrachloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1,1-Trichloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1,2,2-Tetrachloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1,2-Trichloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1-Dichloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1-Dichloroethene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,1-Dichloropropene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2,3-Trichlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2,3-Trichloropropane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2,4-Trichlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2,4-Trimethylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2-Dibromo-3-chloropropane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2-Dibromoethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2-Dichlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,2-Dichloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 12:15:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-004

 Client Sample ID:
 TP04-N1-10.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOU	NDS BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,2-Dichloropropane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,3,5-Trimethylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,3-Dichlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,3-Dichloropropane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
1,4-Dichlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
2,2-Dichloropropane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
2-Butanone	ND	66.0		µg/Kg-dry	1	2/23/2015 4:56:00 PM
2-Chlorotoluene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
2-Hexanone	ND	33.0		µg/Kg-dry	1	2/23/2015 4:56:00 PM
4-Chlorotoluene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
4-Isopropyltoluene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
4-Methyl-2-pentanone	ND	66.0		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Acetone	ND	165		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Benzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Bromobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Bromochloromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Bromodichloromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Bromoform	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Bromomethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Carbon Disulfide	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Carbon tetrachloride	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Chlorobenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Chloroethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Chloroform	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Chloromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
cis-1,2-Dichloroethene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
cis-1,3-Dichloropropene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Dibromochloromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Dibromomethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Dichlorodifluoromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Ethylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Hexachlorobutadiene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Isopropylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
m,p-Xylene	ND	33.0		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Methyl tert-butyl ether	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Methylene Chloride	ND	82.6		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Naphthalene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
n-Butylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
n-Propylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 12:15:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-004

 Client Sample ID:
 TP04-N1-10.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS B	Y GC/MS	SW8260B				Analyst: <b>CK</b>
o-Xylene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
sec-Butylbenzene	16.5	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Styrene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
tert-Butylbenzene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Tetrachloroethene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Toluene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
trans-1,2-Dichloroethene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
trans-1,3-Dichloropropene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Trichloroethene	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Trichlorofluoromethane	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Vinyl Chloride	ND	16.5		µg/Kg-dry	1	2/23/2015 4:56:00 PM
Surr: 1,2-Dichloroethane-d4	110	71.5-112		%REC	1	2/23/2015 4:56:00 PM
Surr: 4-Bromofluorobenzene	109	75.7-122		%REC	1	2/23/2015 4:56:00 PM
Surr: Dibromofluoromethane	111	64.3-124		%REC	1	2/23/2015 4:56:00 PM
Surr: Toluene-d8	98.9	74.9-120		%REC	1	2/23/2015 4:56:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:20:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-005

 Client Sample ID:
 TP04-B1-15.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	18.6		mg/Kg-dry	1	2/23/2015 9:53:18 PM
Lube Oil	ND	61.9		mg/Kg-dry	1	2/23/2015 9:53:18 PM
Surr: o-Terphenyl	95.3	50-150		%REC	1	2/23/2015 9:53:18 PM
NWTPH-GX		NWTPH-GX				Analyst: <b>BS</b>
Gasoline	ND	4.18		mg/Kg-dry	1	2/24/2015 5:52:21 PM
Surr: 4-Bromofluorobenzene	110	50-150		%REC	1	2/24/2015 5:52:21 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
2-Methylnaphthalene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Benz(a)anthracene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Benzo(a)pyrene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Benzo(b)fluoranthene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Benzo(k)fluoranthene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Chrysene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Dibenz(a,h)anthracene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.26		µg/Kg-dry	1	2/23/2015 1:53:00 PM
Surr: 2-Fluorobiphenyl	132	42.6-128	S	%REC	1	2/23/2015 1:53:00 PM
Surr: Nitrobenzene-d5	124	21.7-155		%REC	1	2/23/2015 1:53:00 PM
Surr: p-Terphenyl-d14	155	44.9-155		%REC	1	2/23/2015 1:53:00 PM
VOLATILE ORGANIC COMPOUND	S BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,1,1,2-Tetrachloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1,1-Trichloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1,2,2-Tetrachloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1,2-Trichloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1-Dichloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1-Dichloroethene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,1-Dichloropropene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2,3-Trichlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2,3-Trichloropropane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2,4-Trichlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2,4-Trimethylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2-Dibromo-3-chloropropane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2-Dibromoethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2-Dichlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,2-Dichloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:20:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-005

Client Sample ID: TP04-B1-15.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOL	JNDS BY GC/MS	SW8260B				Analyst: <b>CK</b>
1,2-Dichloropropane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,3,5-Trimethylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,3-Dichlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,3-Dichloropropane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
1,4-Dichlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
2,2-Dichloropropane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
2-Butanone	ND	64.9		µg/Kg-dry	1	2/23/2015 4:22:00 PM
2-Chlorotoluene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
2-Hexanone	ND	32.4		µg/Kg-dry	1	2/23/2015 4:22:00 PM
4-Chlorotoluene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
4-Isopropyltoluene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
4-Methyl-2-pentanone	ND	64.9		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Acetone	ND	162		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Benzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Bromobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Bromochloromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Bromodichloromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Bromoform	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Bromomethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Carbon Disulfide	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Carbon tetrachloride	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Chlorobenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Chloroethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Chloroform	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Chloromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
cis-1,2-Dichloroethene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
cis-1,3-Dichloropropene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Dibromochloromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Dibromomethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Dichlorodifluoromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Ethylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Hexachlorobutadiene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Isopropylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
m,p-Xylene	ND	32.4		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Methyl tert-butyl ether	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Methylene Chloride	ND	81.1		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Naphthalene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
n-Butylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
n-Propylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM

Date Reported: 05-Mar-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/19/2015 2:20:00 PM

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-005

 Client Sample ID:
 TP04-B1-15.0

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY O	GC/MS	SW8260B				Analyst: <b>CK</b>
o-Xylene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
sec-Butylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Styrene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
tert-Butylbenzene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Tetrachloroethene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Toluene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
trans-1,2-Dichloroethene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
trans-1,3-Dichloropropene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Trichloroethene	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Trichlorofluoromethane	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Vinyl Chloride	ND	16.2		µg/Kg-dry	1	2/23/2015 4:22:00 PM
Surr: 1,2-Dichloroethane-d4	109	71.5-112		%REC	1	2/23/2015 4:22:00 PM
Surr: 4-Bromofluorobenzene	109	75.7-122		%REC	1	2/23/2015 4:22:00 PM
Surr: Dibromofluoromethane	109	64.3-124		%REC	1	2/23/2015 4:22:00 PM
Surr: Toluene-d8	110	74.9-120		%REC	1	2/23/2015 4:22:00 PM

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-006

 Client Sample ID:
 TP03-E1-1.0

**Collection Date:** 2/19/2015 3:25:00 PM

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX	1	WTPH-DX				Analyst: <b>BS</b>
Diesel	67.8	18.2	A1	mg/Kg-dry	1	2/23/2015 10:14:18 PM
Lube Oil	325	60.8		mg/Kg-dry	1	2/23/2015 10:14:18 PM
Surr: o-Terphenyl	93.2	50-150		%REC	1	2/23/2015 10:14:18 PM

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-007

 Client Sample ID:
 TP03-N1-1.0

**Collection Date:** 2/19/2015 3:20:00 PM

Analyses	Result	Result RL Qual Unit				Date Analyzed
NWTPH-DX	1	WTPH-DX				Analyst: <b>BS</b>
Diesel	57.8	19.1	A1	mg/Kg-dry	1	2/23/2015 10:58:18 PM
Lube Oil	261	63.7		mg/Kg-dry	1	2/23/2015 10:58:18 PM
Surr: o-Terphenyl	96.8	50-150		%REC	1	2/23/2015 10:58:18 PM

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-008

 Client Sample ID:
 TP03-B1-1.5

**Collection Date:** 2/19/2015 3:15:00 PM

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed		
NWTPH-DX	1	WTPH-DX				Analyst: <b>BS</b>		
Diesel	40.8	17.5	A1	mg/Kg-dry	1	2/23/2015 11:41:18 PM		
Lube Oil	146	58.3		mg/Kg-dry	1	2/23/2015 11:41:18 PM		
Surr: o-Terphenyl	99.2	50-150		%REC	1	2/23/2015 11:41:18 PM		

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi

 Project:
 32nd St Remedial Action / 0564.02.03

 Lab ID:
 1502185-009

 Client Sample ID:
 TP03-W1-1.0

**Collection Date:** 2/19/2015 3:35:00 PM

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX	٦	NWTPH-DX				Analyst: <b>BS</b>
Diesel	117	19.1	A1	mg/Kg-dry	1	2/24/2015 12:24:18 AM
Lube Oil	495	63.7		mg/Kg-dry	1	2/24/2015 12:24:18 AM
Surr: o-Terphenyl	104	50-150		%REC	1	2/24/2015 12:24:18 AM

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi

	e
Project:	32nd St Remedial Action / 0564.02.03
Lab ID:	1502185-010
Client Sample ID:	TP03-S1-1.0

**Collection Date:** 2/19/2015 3:30:00 PM

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed	
NWTPH-DX	1	NWTPH-DX				Analyst: <b>BS</b>	
Diesel	43.5	17.0	A1	mg/Kg-dry	1	2/24/2015 1:07:18 AM	
Lube Oil	271	56.8		mg/Kg-dry	1	2/24/2015 1:07:18 AM	
Surr: o-Terphenyl	103	50-150		%REC	1	2/24/2015 1:07:18 AM	

WO#: 1502185

05-Mar-15

Client:Maul FosterProject:32nd St Rer	• & Alongi nedial Action / 0564.02.03						Te	estCode: 8	260_5035		
Sample ID: CCV MSVWS-2015	SampType: CCV	TestCoo	le: 8260_5035	Units: µg/Kg		Prep Dat	e:		RunNo: 189	989	
Client ID: CCV	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Dat	e: <b>2/23/201</b>	5	SeqNo: 252	2059	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.0	10.0	40.00	0	115	80	120				
1,2-Dichloropropane	38.6	10.0	40.00	0	96.4	80	120				
Chloroform	41.4	10.0	40.00	0	104	80	120				
Ethylbenzene	45.9	10.0	40.00	0	115	80	120				
Toluene	34.4	10.0	40.00	0	86.1	80	120				
Vinyl Chloride	44.9	10.0	40.00	0	112	80	120				
Sample ID: LCS MSVWS-2016	SampType: LCS	TestCoo	le: 8260_5035	Units: µg/Kg		Prep Dat	e:		RunNo: 189	989	
Client ID: LCSS	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Dat	e: <b>2/23/201</b>	5	SeqNo: 252	2060	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.4	10.0	40.00	0	111	82.4	121				
Benzene	40.1	10.0	40.00	0	100	74.3	136				
Chlorobenzene	45.2	10.0	40.00	0	113	84.1	121				
Toluene	33.5	10.0	40.00	0	83.8	83.1	123				
Trichloroethene	39.5	10.0	40.00	0	98.7	87.8	119				
Sample ID: MB	SampType: MBLK	TestCoo	le: 8260_5035	Units: µg/Kg		Prep Dat	e:		RunNo: 189	989	
Client ID: PBS	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Dat	e: <b>2/23/201</b>	5	SeqNo: 252	2061	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
Qualifiers:     B     Analyte detect       O     RSD is greater	ed in the associated Method Blank than RSDlimit		H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	exceeded	ND N S Sj	ot Detected at the pike Recovery ou	Reporting Limi tside accepted re	t Pa	ge 1 of 29

**Specialty Analytical** 

WO#: 1502185

05-Mar-15

Client:Maul FosProject:32nd St F	ter & Alongi Remedial Action / 0564.02.03						ŗ	FestCode: 8	260_5035		
Sample ID: MB Client ID: PBS	SampType: MBLK Batch ID: 8964	TestCo TestI	de: 8260_5035 No: SW8260B	Units: μg/Kg SW5035A		Prep Da Analysis Da	te: te: <b>2/23/2</b> 0	015	RunNo: 18 SeqNo: 25	989 2061	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloro-1,2,2-trifluoroetha	ane ND	0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	40.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	ND	40.0									
Qualifiers: B Analyte det	ected in the associated Method Blank		H Holdin	g times for preparation	or analysis	sexceeded	ND	Not Detected at the	e Reporting Limi	it Pa	age 2 of 29

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ng time for preparation ary eporting L

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 2 of 29

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03	;					1	TestCode: 8	260_5035		
Sample ID: MB	SampType: MBLK	TestCoo	le: 8260_5035	Units: µg/Kg		Prep Da	te:		RunNo: 189	989	
Client ID: PBS	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Da	te: <b>2/23/20</b>	)15	SeqNo: 252	2061	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	ND	100									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethan	e ND	10.0									
Bromodichlorometha	ine ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon Disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethe	ne ND	10.0									
cis-1,3-Dichloroprop	ene ND	10.0									
Dibromochlorometha	ane ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluorometh	ane ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	e ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ethe	er ND	10.0									
Methylene Chloride	ND	50.0									
Naphthalene	ND	10.0									
n-Butylbenzene	ND	10.0									
Qualifiers: B	Analyte detected in the associated Method Blank		H Holdin	g times for preparation	or analysis	sexceeded	ND	Not Detected at the	Reporting Limi	t Pa	ge 3 of 29

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02	.03					Т	estCode: 8	3260_5035		
Sample ID: MB	SampType: MBLK	TestCod	le: 8260_5035	Units: µg/Kg		Prep Dat	e:		RunNo: 189	89	
Client ID: PBS	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 252	2061	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	10.0									
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1,2-Dichloroethe	ene ND	10.0									
trans-1,3-Dichloroprop	pene ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethan	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroe	thane-d4 110		100.0		110	71.5	112				
Surr: 4-Bromofluor	obenzene 104		100.0		104	75.7	122				
Surr: Dibromofluoro	omethane 105		100.0		105	64.3	124				
Surr: Toluene-d8	111		100.0		111	74.9	120				

Sample ID: A1502185-	001BMS SampType: MS	TestCo	de: 8260_5035	Units: µg/K	g-dry	Prep Dat	e:	RunNo: <b>18989</b>			
Client ID: ZZZZZZ	Batch ID: 8964	Test	No: SW8260B	SW5035A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 252	2067	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42.3	12.2	48.74	0	86.7	69.2	158				
Benzene	45.3	12.2	48.74	0	92.9	71.7	147				
Chlorobenzene	51.5	5 12.2	48.74	0	106	75	148				
Qualifiers: B Ar	nalyte detected in the associated Metl	hod Blank	H Holdin	g times for preparati	on or analysis	exceeded	ND N	Not Detected at the	Reporting Limi	t Pa	ge 4 of 29

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster 32nd St Ren	& Alongi nedial Action / 0564.02.03						,	TestCode: 8	260_5035		
Sample ID:	A1502185-001BMS	SampType: <b>MS</b>	TestCo	de: <b>8260_5035</b>	Units: µg/K	g-dry	Prep Da	te:		RunNo: 189	89	
Client ID:	ZZZZZZ	Batch ID: 8964	TestN	lo: SW8260B	SW5035A		Analysis Da	te: 2/23/2	015	SeqNo: 252	2067	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		37.0	12.2	48.74	1.072	73.6	52.1	153				
Trichloroethe	ene	45.8	12.2	48.74	0	93.9	77.1	138				
Sample ID:	CCV MSVWS-2015	SampType: CCV	TestCo	de: <b>8260_5035</b>	Units: µg/K	g	Prep Da	te:		RunNo: 189	89	
Client ID:	CCV	Batch ID: 8964	Test	lo: SW8260B	SW5035A		Analysis Da	te: 2/24/2	015	SeqNo: 252	2068	
Analyte	Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloro	ethene	39.1	10.0	40.00	0	97.8	80	120				
1,2-Dichloro	propane	36.1	10.0	40.00	0	90.2	80	120				
Chloroform		37.8	10.0	40.00	0	94.5	80	120				
Ethylbenzen	e	45.2	10.0	40.00	0	113	80	120				
Toluene		32.6	10.0	40.00	0	81.6	80	120				
Vinyl Chlorid	le	42.2	10.0	40.00	0	106	80	120				
Sample ID:	A1502185-001BMSD	SampType: <b>MSD</b>	TestCo	de: <b>8260_5035</b>	Units: µg/K	g-dry	Prep Da	te:		RunNo: 189	89	
Client ID:	ZZZZZZ	Batch ID: 8964	Test	lo: SW8260B	SW5035A		Analysis Da	ite: 2/24/2	015	SeqNo: 252	2069	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloro	ethene	44.1	12.2	48.74	0	90.5	69.2	158	42.26	4.23	20	
Benzene		44.0	12.2	48.74	0	90.3	71.7	147	45.29	2.87	20	
Chlorobenze	ene	50.2	12.2	48.74	0	103	75	148	51.47	2.52	20	
Toluene		37.0	12.2	48.74	1.072	73.8	52.1	153	36.96	0.198	20	
Trichloroethe	ene	43.9	12.2	48.74	0	90.0	77.1	138	45.75	4.24	20	
Qualifiers: B Analyte detected in the associated Method Blank				H Holdin	g times for preparati	ion or analysis	exceeded	ND	Not Detected at the	Reporting Limi	t Pa	ige 5 of 29
	O RSD is greater		R RPD o	utside accepted reco	very limits		S	Spike Recovery ou	tside accepted re	cov		

Specialty Analytical

WO#: 1502185

05-Mar-15

Client:Maul FosterProject:32nd St Ren	& Alongi nedial Action / 0564.02.03						Т	SestCode:	8260_5035		
Sample ID: A1502185-001BMSD	SampType: <b>MSD</b>	TestCode	e: <b>8260_5035</b>	υnits: μg/Kg-α	dry	Prep Da	te:		RunNo: 189	89	
Client ID: ZZZZZZ	Batch ID: 8964	TestNo	o: SW8260B	SW5035A		Analysis Da	te: 2/24/20	15	SeqNo: 252	2069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: CCB	SampType: CCB	TestCode	e: <b>8260_5035</b>	υnits: μg/Kg		Prep Da	te:		RunNo: 189	089	
Client ID: CCB	Batch ID: 8964	TestNo	o: SW8260B	SW5035A		Analysis Da	te: 2/24/20	15	SeqNo: 252	2070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10.0									
1,1,1-Trichloroethane	ND	10.0									
1,1,2,2-Tetrachloroethane	ND	10.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									
1,1-Dichloropropene	ND	10.0									
1,2,3-Trichlorobenzene	ND	10.0									
1,2,3-Trichloropropane	ND	10.0									
1,2,4-Trichlorobenzene	ND	10.0									
1,2,4-Trimethylbenzene	ND	10.0									
1,2-Dibromo-3-chloropropane	ND	10.0									
1,2-Dibromoethane	ND	10.0									
1,2-Dichlorobenzene	ND	10.0									
1,2-Dichloroethane	ND	10.0									
1,2-Dichloropropane	ND	10.0									
1,3,5-Trimethylbenzene	ND	10.0									
1,3-Dichlorobenzene	ND	10.0									

В

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 6 of 29

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03							TestCode: 8	260_5035		
Sample ID: CCB	SampType: <b>CCB</b>	TestCod	e: <b>8260_5035</b>	Units: µg/Kg		Prep Da	te:		RunNo: 189	89	
Client ID: CCB	Batch ID: 8964	TestN	o: SW8260B	SW5035A		Analysis Da	te: 2/24/2	2015	SeqNo: 252	2070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimi	t RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	40.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanon	e ND	40.0									
Acetone	ND	100									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	e ND	10.0									
Bromodichlorometha	ne ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon Disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroether	ne ND	10.0									
cis-1,3-Dichloroprop	ene ND	10.0									
Dibromochlorometha	ne ND	10.0									
Dibromomethane	ND	10.0									
Qualifiers: B	Analyte detected in the associated Method Blank		H Holdin	g times for preparation	or analysis	sexceeded	ND	Not Detected at the	Reporting Limi	t Pa	ge 7 of 29
0	RSD is greater than RSDlimit		R RPD of	utside accepted recover	y limits		S	Spike Recovery ou	tside accepted re	COV	

#### aryte detected i associated Method I

**Specialty Analytical** 

 d Method Blank
 n
 nonling times for perpendicular

 R
 RPD outside accepted recovery limits

WO#: 1502185

05-Mar-15

Client:NProject:3	Aaul Foster & Alongi 2nd St Remedial Action / 0564.02.0	)3				TestCode:	8260_5035		
Sample ID: CCB	SampType: CCB	TestCode: 8260_50	35 Units: μg/Kg		Prep Date:		RunNo: 189	89	
Client ID: CCB	Batch ID: 8964	TestNo: SW8260	B SW5035A		Analysis Date: 2/24/	2015	SeqNo: 252	070	
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC	LowLimit HighLim	t RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethar	ne ND	10.0							
Ethylbenzene	ND	10.0							
Hexachlorobutadiene	ND	10.0							
Isopropylbenzene	ND	10.0							
m,p-Xylene	ND	20.0							
Methyl tert-butyl ether	ND	10.0							
Methylene Chloride	ND	50.0							
Naphthalene	ND	10.0							
n-Butylbenzene	ND	10.0							
n-Propylbenzene	ND	10.0							
o-Xylene	ND	10.0							
sec-Butylbenzene	ND	10.0							
Styrene	ND	10.0							
tert-Butylbenzene	ND	10.0							
Tetrachloroethene	ND	10.0							
Toluene	ND	10.0							
trans-1,2-Dichloroethe	ne ND	10.0							
trans-1,3-Dichloroprop	ene ND	10.0							
Trichloroethene	ND	10.0							
Trichlorofluoromethane	ND	10.0							
Vinyl Chloride	ND	10.0							
Surr: 1,2-Dichloroet	hane-d4 96.6	100.0	)	96.6	71.5 11	2			
Surr: 4-Bromofluoro	benzene 98.9	100.0	)	98.9	75.7 12	2			
Surr: Dibromofluoro	methane 99.9	100.0	)	99.9	64.3 12	1			
Surr: Toluene-d8	112	100.0	)	112	74.9 120	)			

Qualifiers:

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Η

0 RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit S

Spike Recovery outside accepted recovery

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WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster 32nd St Ren	& Alongi nedial Action / 0564.02.03	5					Т	estCode: 8	260_S		
Sample ID: CCV M	SVWS-2015	SampType: CCV	TestCo	de: 8260_S	Units: µg/Kg		Prep Date	):		RunNo: 189	987	
Client ID: CCV		Batch ID: 8969	TestN	lo: SW8260B	5030		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 252	2038	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		46.0	10.0	40.00	0	115	80	120				
1,2-Dichloropropane	•	38.6	10.0	40.00	0	96.4	80	120				
Chloroform		41.4	10.0	40.00	0	104	80	120				
Ethylbenzene		45.9	10.0	40.00	0	115	80	120				
Toluene		34.4	10.0	40.00	0	86.1	80	120				
Vinyl chloride		44.9	10.0	40.00	0	112	80	120				
Sample ID: LCS MSVWS-2016 SampType: LCS			TestCo	de: 8260_S	Units: µg/Kg		Prep Date	e:		RunNo: 189	987	
Client ID: LCSS	.CSS Batch ID: 8969		TestN	lo: SW8260B	5030		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 252	2039	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		44.4	10.0	40.00	0	111	85.1	136				
Benzene		40.1	10.0	40.00	0	100	87.5	130				
Chlorobenzene		45.2	10.0	40.00	0	113	84.4	130				
Toluene		33.5	10.0	40.00	0	83.8	83.7	127				
Trichloroethene		39.5	10.0	40.00	0	98.7	88.5	123				
Sample ID: 150218	5-001BMS	SampType: <b>MS</b>	TestCo	de: 8260_S	Units: µg/Kg-o	dry	Prep Date	e:		RunNo: 189	987	
Client ID: TP04-V	V2-11.0	Batch ID: 8969	TestN	lo: SW8260B	5030		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 252	2047	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		42.3	12.2	48.74	0	86.7	46.6	147				
Benzene		45.3	12.2	48.74	0	92.9	65.2	121				
Qualifiers:     B     Analyte detected in the associated Method Blank       O     RSD is greater than RSDlimit				H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	exceeded	ND N S S	Not Detected at the Spike Recovery ou	Reporting Limi tside accepted re	t Pa	ge 9 of 29

**Specialty Analytical** 

WO#: **1502185** 

05-Mar-15

Client:Maul ForProject:32nd St	oster & Alongi Remedial Action / 0564.02.03	3					]	TestCode: 8	260_S		
Sample ID: 1502185-001BMS	S SampType: MS	TestCo	de: 8260_S	Units: µg/K	g-dry	Prep Dat	e:		RunNo: 189	87	
Client ID: TP04-W2-11.0	Batch ID: 8969	Test	lo: SW8260B	5030		Analysis Dat	e: <b>2/23/2</b> 0	015	SeqNo: 252	047	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	51.5	12.2	48.74	0	106	40.9	122				
Toluene	37.0	12.2	48.74	0	75.8	52.1	127				
Trichloroethene	45.8	12.2	48.74	0	93.9	57.6	122				
Sample ID: CCV MSVWS-20	15 SampType: CCV	TestCo	de: <b>8260_S</b>	Units: µg/K	g	Prep Dat	e:		RunNo: 189	87	
Client ID: CCV	Batch ID: 8969	Test	lo: SW8260B	5030		Analysis Dat	e: <b>2/24/20</b>	)15	SeqNo: 252	048	
Analyte	alyte Result		SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
,1-Dichloroethene 39.1		10.0	40.00	0	97.8	80	120				
1,2-Dichloropropane	36.1	10.0	40.00	0	90.2	80	120				
Chloroform	37.8	10.0	40.00	0	94.5	80	120				
Ethylbenzene	45.2	10.0	40.00	0	113	80	120				
Toluene	32.6	10.0	40.00	0	81.6	80	120				
Vinyl chloride	42.2	10.0	40.00	0	106	80	120				
Sample ID: 1502185-001BMS	SD SampType: MSD	TestCo	de: 8260_S	Units: µg/K	g-dry	Prep Dat	e:		RunNo: 189	87	
Client ID: TP04-W2-11.0	Batch ID: 8969	Test	lo: SW8260B	5030		Analysis Dat	e: <b>2/24/2</b> 0	015	SeqNo: 252	049	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.1	12.2	48.74	0	90.5	46.6	147	42.26	4.23	20	
Benzene	44.0	12.2	48.74	0	90.3	65.2	121	45.29	2.87	20	
Chlorobenzene	50.2	12.2	48.74	0	103	40.9	122	51.47	2.52	20	
Toluene	37.0	12.2	48.74	0	76.0	52.1	127	36.96	0.198	20	
Qualifiers:         B         Analyte detected in the associated Method Blank           O         RSD is greater than RSDlimit			H Holdin R RPD o	ng times for preparati putside accepted reco	on or analysis very limits	exceeded	ND S	Not Detected at the Spike Recovery ou	e Reporting Limit tside accepted rec	Pag	e 10 of 29

## **Specialty Analytical**

WO#: 1502185

05-Mar-15

Client:MaProject:32	aul Foster & nd St Remed	Alongi lial Action / 0564.02.0	03					Т	estCode: 8	260_S		
Sample ID: 1502185-00	D1BMSD S	ampType: <b>MSD</b>	TestCoo	le: 8260_S	Units: µg/Kg-	-dry	Prep Dat	e:		RunNo: 189	987	
Client ID: TP04-W2-1	1.0	Batch ID: 8969	TestN	lo: SW8260B	5030		Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 252	2049	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene		43.9	12.2	48.74	0	90.0	57.6	122	45.75	4.24	20	
Sample ID: CCB	Si	ampType: <b>CCB</b>	TestCoo	le: 8260_S	Units: µg/Kg		Prep Dat	e:		RunNo: 189	987	
Client ID: CCB Batch ID: 8969 TestNo: SW8260B 5030					Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 252	2050			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethan	ne	ND	10.0									
1,1,1-Trichloroethane		ND	10.0									
1,1,2,2-Tetrachloroethan	ne	ND	10.0									
1,1,2-Trichloro-1,2,2-trifl	luoroethane	ND	10.0									
1,1,2-Trichloroethane		ND	10.0									
1,1-Dichloroethane		ND	10.0									
1,1-Dichloroethene		ND	10.0									
1,1-Dichloropropene		ND	10.0									
1,2,3-Trichlorobenzene		ND	10.0									
1,2,3-Trichloropropane		ND	10.0									
1,2,4-Trichlorobenzene		ND	10.0									
1,2,4-Trimethylbenzene		ND	10.0									
1,2-Dibromo-3-chloropro	pane	ND	10.0									
1,2-Dibromoethane		ND	10.0									
1,2-Dichlorobenzene		ND	10.0									
1,2-Dichloroethane		ND	10.0									
1,2-Dichloropropane		ND	10.0									
1,3,5-Trimethylbenzene		ND	10.0									

Qualifiers:

В

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03							TestCode: 8	260_S		
Sample ID: CCB	SampType: <b>CCB</b>	TestCoo	le: 8260_S	Units: µg/Kg		Prep Dat	te:		RunNo: 189	87	
Client ID: CCB	Batch ID: 8969	TestN	lo: SW8260B	5030		Analysis Dat	te: <b>2/24/2</b>	015	SeqNo: 252	050	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimi	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	10.0									
1,3-Dichloropropane	ND	10.0									
1,4-Dichlorobenzene	ND	10.0									
2,2-Dichloropropane	ND	10.0									
2-Butanone	ND	20.0									
2-Chlorotoluene	ND	10.0									
2-Hexanone	ND	20.0									
4-Chlorotoluene	ND	10.0									
4-Isopropyltoluene	ND	10.0									
4-Methyl-2-pentanone	e ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									
Bromodichloromethar	ne ND	10.0									
Bromoform	ND	10.0									
Bromomethane	ND	10.0									
Carbon disulfide	ND	10.0									
Carbon tetrachloride	ND	10.0									
Chlorobenzene	ND	10.0									
Chloroethane	ND	10.0									
Chloroform	ND	10.0									
Chloromethane	ND	10.0									
cis-1,2-Dichloroethen	e ND	10.0									
cis-1,3-Dichloroprope	ne ND	10.0									
Dibromochlorometha	ne ND	10.0									
Qualifiers: B	Analyte detected in the associated Method Blank RSD is greater than RSDlimit		H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	exceeded	ND S	Not Detected at the Spike Recovery our	Reporting Limit	Pag	e 12 of 29

**Specialty Analytical** 

R RPD outside accepted recovery limits

WO#: 1502185

05-Mar-15

Client: N Project: 3	Iaul Foster & Alongi 2nd St Remedial Action / 0564.02.0	)3					ſ	TestCode: 8	260_S		
Sample ID: CCB	SampType: CCB	TestCo	de: <b>8260_S</b>	Units: µg/Kg		Prep Da	te:		RunNo: 189	87	
Client ID: CCB	Batch ID: 8969	Test	No: SW8260B	5030		Analysis Da	te: <b>2/24/20</b>	)15	SeqNo: 252	050	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromomethane	ND	10.0									
Dichlorodifluoromethar	ne ND	10.0									
Ethylbenzene	ND	10.0									
Hexachlorobutadiene	ND	10.0									
Isopropylbenzene	ND	10.0									
m,p-Xylene	ND	20.0									
Methyl tert-butyl ether	ND	10.0									
Methylene chloride	ND	50.0									
Naphthalene	ND	10.0									
n-Butylbenzene	ND	10.0									
n-Propylbenzene	ND	10.0									
o-Xylene	ND	10.0									
sec-Butylbenzene	ND	10.0									
Styrene	ND	10.0									
tert-Butylbenzene	ND	10.0									
Tetrachloroethene	ND	10.0									
Toluene	ND	10.0									
trans-1.2-Dichloroethe	ne ND	10.0									
trans-1.3-Dichloroprop	ene ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	e ND	10.0									
Vinvl chloride	ND	10.0									
Surr: 1.2-Dichloroet	nane-d4 96.6		100.0		96.6	71.5	112				
Surr: 4-Bromofluoro	benzene 98.9		100.0		98.9	75.7	122				
Surr: Dibromofluoro	methane 99.9		100.0		99.9	64.3	124				
Surr: Toluene-d8	112		100.0		112	74.9	120				
Qualifiers: B	Analyte detected in the associated Method Blar	ık	H Holdin	g times for preparation	or analysis	sexceeded	ND	Not Detected at the	Reporting Limit	Pag	ge 13 of 29
0 1	KSD is greater than KSDlimit		K KPD o	utside accepted recover	y limits		S	Spike Recovery ou	tside accepted red	COV	

# Specialty Analytical

1502185 WO#:

05-Mar-15

Client:MProject:3	/aul Foster & Alongi 2nd St Remedial Actio	on / 0564.02.03				Т	estCode: 8	3260_S			
Sample ID: CCB	SampType:	CCB Test	tCode: 8260_S	Units: µg/Kg		Prep Da	te:		RunNo: 189	87	
Client ID: CCB	Batch ID:	<b>8969</b> T	estNo: SW8260B	5030		Analysis Da	te: 2/24/20	15	SeqNo: 252	050	
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sample ID: CCV MSV	/WS-2015 SampType:	CCV Test	tCode: 8260_S	Units: µg/Kg		Prep Da	te:		RunNo: 189	87	
Client ID: CCV	Batch ID:	8969 T	estNo: SW8260B	5030		Analysis Da	te: 3/2/201	5	SeqNo: 253	194	
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene		86.3 10.	0 80.00	0	108	80	120				
1,2-Dichloropropane		81.7 10.	0 80.00	0	102	80	120				
Chloroform		85.9 10.	0 80.00	0	107	80	120				
Ethylbenzene		93.8 10.	0 80.00	0	117	80	120				
Toluene		69.8 10.	0 80.00	0	87.3	80	120				
Vinyl chloride		86.4 10.	0 80.00	0	108	80	120				
Sample ID: CCB	SampType:	CCB Test	tCode: 8260_S	Units: µg/Kg		Prep Da	te:		RunNo: 189	87	
Client ID: CCB	Batch ID:	<b>8969</b> To	estNo: SW8260B	5030		Analysis Da	te: 3/2/201	5	SeqNo: 253	195	
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroetha	ane	ND 10.	0								
1,1,1-Trichloroethane		ND 10.	0								
1,1,2,2-Tetrachloroetha	ane	ND 10.	0								
1,1,2-Trichloro-1,2,2-tr	ifluoroethane	ND 10.	0								
1,1,2-Trichloroethane		ND 10.	0								
1,1-Dichloroethane		ND 10.	0								
1,1-Dichloroethene		ND 10.	0								
Qualifiers: B A	Analyte detected in the associa	ated Method Blank	H Holdi	ng times for preparation	or analysis	exceeded	ND 1	Not Detected at the	e Reporting Limit	- Pag	e 14 of 29

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O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

15

S Spike Recovery outside accepted recovery

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WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Along 32nd St Remedial Act	i tion / 0564.02	.03					ſ	TestCode: 8	260_S		
Sample ID: CCB Client ID: CCB	SampTyp Batch II	D: 8969	TestCoo TestN	le: 8260_S lo: SW8260B	Units: <b>µg/Kg</b> 5030		Prep Da Analysis Da	te: te: <b>3/2/20</b> 1	15	RunNo: 189 SeqNo: 253	987 3195	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene		ND	10.0									
1,2,3-Trichlorobenze	ne	ND	10.0									
1,2,3-Trichloropropa	ne	ND	10.0									
1,2,4-Trichlorobenze	ne	ND	10.0									
1,2,4-Trimethylbenze	ene	ND	10.0									
1,2-Dibromo-3-chloro	opropane	ND	10.0									
1,2-Dibromoethane		ND	10.0									
1,2-Dichlorobenzene	•	ND	10.0									
1,2-Dichloroethane		ND	10.0									
1,2-Dichloropropane		ND	10.0									
1,3,5-Trimethylbenze	ene	ND	10.0									
1,3-Dichlorobenzene		ND	10.0									
1,3-Dichloropropane		ND	10.0									
1,4-Dichlorobenzene		ND	10.0									
2,2-Dichloropropane		ND	10.0									
2-Butanone		ND	20.0									
2-Chlorotoluene		ND	10.0									
2-Hexanone		ND	20.0									
4-Chlorotoluene		ND	10.0									
4-Isopropyltoluene		ND	10.0									
4-Methyl-2-pentanon	e	ND	20.0									
Acetone		ND	50.0									
Benzene		ND	10.0									
Bromobenzene		ND	10.0									
Bromochloromethane	e	ND	10.0									
Bromodichlorometha	ne	ND	10.0									
<b>Qualifiers:</b> B	Analyte detected in the asso	ciated Method Bla	ank	H Holdin	g times for preparation	or analysis	exceeded	ND	Not Detected at the	e Reporting Limi	t Pao	e 15 of 20

ing i n prepai ng

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action	n / 0564.02.03						ſ	TestCode: 82	260_S		
Sample ID: CCB Client ID: CCB	SampType: Batch ID: 8	ССВ Те 8969	estCode: TestNo:	8260_S SW8260B	Units: <b>µg/Kg</b> 5030		Prep Dat Analysis Dat	re: re: <b>3/2/20</b> 1	5	RunNo: <b>189</b> SeqNo: <b>253</b>	87 195	
Analyte		Result P	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		ND 1	0.0									
Bromomethane		ND 1	0.0									
Carbon disulfide		ND 1	0.0									
Carbon tetrachlorid	le	ND 1	0.0									
Chlorobenzene		ND 1	0.0									
Chloroethane		ND 1	0.0									
Chloroform		ND 1	0.0									
Chloromethane		ND 1	0.0									
cis-1,2-Dichloroeth	ene	ND 1	0.0									
cis-1,3-Dichloropro	ppene	ND 1	0.0									
Dibromochlorometh	nane	ND 1	0.0									
Dibromomethane		ND 1	0.0									
Dichlorodifluorome	thane	ND 1	0.0									
Ethylbenzene		ND 1	0.0									
Hexachlorobutadie	ne	ND 1	0.0									
Isopropylbenzene		ND 1	0.0									
m,p-Xylene		ND 2	0.0									
Methyl tert-butyl eth	ner	ND 1	0.0									
Methylene chloride		ND 5	0.0									
Naphthalene		ND 1	0.0									
n-Butylbenzene		ND 1	0.0									
n-Propylbenzene		ND 1	0.0									
o-Xylene		ND 1	0.0									
sec-Butylbenzene		ND 1	0.0									
Styrene		ND 1	0.0									
tert-Butylbenzene		ND 1	0.0									
Qualifiers: B	Analyte detected in the associat	ted Method Blank		H Holdin	g times for preparation	or analysis	exceeded	ND	Not Detected at the	Reporting Limit	Pag	e 16 of 29

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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WO#: 1502185

05-Mar-15

Client:MProject:3.	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03							TestCode: 8260_S							
Sample ID: CCB	SampType: <b>C</b>	СВ	TestCode: 8260_S		Units: µg/Kg	Prep Date:		e:	RunNo: 18987						
Client ID: CCB	Batch ID: 8	969	TestNo: SW8260B 5030		5030	Analysis Date: 3/2/2015			5	SeqNo: 253195					
Analyte	F	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual			
Tetrachloroethene		ND	10.0												
Toluene		ND	10.0												
trans-1,2-Dichloroether	ne	ND	10.0												
trans-1,3-Dichloroprope	ene	ND	10.0												
Trichloroethene		ND	10.0												
Trichlorofluoromethane	)	ND	10.0												
Vinyl chloride		ND	10.0												
Surr: 1,2-Dichloroeth	nane-d4	94.6		100.0		94.6	71.5	112							
Surr: 4-Bromofluorol	penzene	96.5		100.0		96.5	75.7	122							
Surr: Dibromofluoror	nethane	95.2		100.0		95.2	64.3	124							
Surr: Toluene-d8		110		100.0		110	74.9	120							

 Qualifiers:
 B
 Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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WO#: **1502185** 

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03							TestCode: NWTPHDX_S							
Sample ID: Client ID: C	ccv ccv	SampType: CCV Batch ID: 8954	TestCode TestNo	: NWTPHDX : NWTPH-D>	_S (	Units: mg/Kg SW3545A		Prep Dat Analysis Dat	e: e: <b>2/23/20</b>	15	RunNo: 1 SeqNo: 2	8976 51805			
Analyte		Result	PQL	SPK value	SP	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	0 RPDLimit	Qual		
Diesel Lube Oil		1010 447	15.0 50.0	999.0 499.5		0 0	101 89.4	85 85	115 115						
Sample ID: N	MB-8954	SampType: MBLK	K TestCode: NWTPHDX_S Units: mg/Kg				Prep Date: 2/20/2015				RunNo: <b>18976</b>				
Client ID: F	PBS	Batch ID: 8954	TestNo: NWTPH-Dx SW3545A				Analysis Date: 2/23/2015				SeqNo: 251806				
Analyte		Result	PQL	SPK value	SP	YK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	D RPDLimit	Qual		
Diesel Lube Oil Surr: o-Ter	rphenyl	ND ND 33.1	15.0 50.0	33.33			99.2	50	150						
Sample ID: L	LCS-8954	SampType: LCS	TestCode	NWTPHDX	_s	Units: <b>mg/Kg</b>		Prep Dat	e: <b>2/20/20</b>	15	RunNo: 1	8976			
Client ID: L	LCSS	Batch ID: 8954	TestNo	NWTPH-D	¢	SW3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 2	51807			
Analyte		Result	PQL	SPK value	SP	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	D RPDLimit	Qual		
Diesel Lube Oil		159 151	15.0 50.0	166.7 166.7		0 0	95.2 90.5	76.3 69.9	125 127						
Sample ID: 1	1502176-003ADUP	SampType: <b>DUP</b>	TestCode: NWTPHDX_S Units: mg/Kg-d		dry Prep Date: 2/20/201			15	RunNo: <b>18976</b>						
Client ID: Z	ZZZZZZ	Batch ID: 8954	TestNo	NWTPH-D	C	SW3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 2	51811			
Analyte		Result	PQL	SPK value	SP	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPI	D RPDLimit	Qual		
Qualifiers:	<ul><li>B Analyte detection</li><li>O RSD is greated</li></ul>	ted in the associated Method Blank er than RSDlimit		H Holdin	g tin utsid	nes for preparation	or analysis / limits	sexceeded	ND I S I	Not Detected at the Spike Recovery ou	e Reporting Li	mit Pa	ge 18 of 29		

## **Specialty Analytical**
WO#: 1502185

05-Mar-15

Client: Project:	Maul H 32nd S	Foster & Alongi St Remedial Action / 0564.02.03							Т	CestCode:	NWTPHDX	<b>[_S</b>	
Sample ID: Client ID:	1502176-003AD ZZZZZZ	UP SampType: DUP Batch ID: 8954	TestCode: TestNo:	: NWTPHDX	_S Units SW3	: mg/Kg- 545A	dry	Prep Dat Analysis Dat	re: 2/20/20 re: 2/23/20	15 15	RunNo: 1 SeqNo: 2	3976 51811	
Analyte		Result	PQL	SPK value	SPK Ref	Val	%REC	LowLimit	HighLimit	RPD Ref Va	I %RPD	RPDLimit	Qual
Diesel Lube Oil		ND ND	19.2 64.0							C C	) C	20 20	
Sample ID: Client ID:	1502183-002AD ZZZZZZ	UP SampType: DUP Batch ID: 8954	TestCode: TestNo:	: NWTPHDX : NWTPH-Dx	_S Units SW3	: mg/Kg- 545A	dry	Prep Da Analysis Da	e: 2/20/20 e: 2/23/20	15 15	RunNo: 1 SeqNo: 2	3976 51814	
Analyte		Result	PQL	SPK value	SPK Ref	Val	%REC	LowLimit	HighLimit	RPD Ref Va	I %RPD	RPDLimit	Qual
Diesel Lube Oil		ND ND	20.0 66.6							C C	) C ) 200	20 20	RF
Sample ID:	CCV	SampType: CCV	TestCode	NWTPHDX	_ <b>S</b> Units	: mg/Kg		Prep Dat	e:		RunNo: 1	3976	
Client ID:	CCV	Batch ID: 8954	TestNo	: NWTPH-Dx	SW3	545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 2	51816	
Analyte		Result	PQL	SPK value	SPK Ref	Val	%REC	LowLimit	HighLimit	RPD Ref Va	I %RPD	RPDLimit	Qual
Diesel Lube Oil		1160 658	15.0 50.0	1332 666.0		0 0	86.8 98.8	85 85	115 115				
Sample ID:	ССВ	SampType: CCB	TestCode	NWTPHDX	_ <b>S</b> Units	: mg/Kg		Prep Dat	e:		RunNo: 1	8976	
Client ID:	ССВ	Batch ID: 8954	TestNo	NWTPH-Dx	SW3	545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 2	51817	
Analyte		Result	PQL	SPK value	SPK Ref	Val	%REC	LowLimit	HighLimit	RPD Ref Va	I %RPD	RPDLimit	Qual
Diesel		ND	15.0										
Qualifiers:	<ul><li>B Analyte</li><li>O RSD is</li></ul>	detected in the associated Method Blank greater than RSDlimit		H Holding R RPD ou	g times for p itside accep	preparation oted recover	or analysis y limits	sexceeded	ND S	Not Detected at Spike Recovery	the Reporting Lir outside accepted	nit Pag recovi	ge 19 of 29

### **Specialty Analytical**

WO#: 1502185

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Client: Project:	Maul Foster & Alongi 32nd St Remedial Action / 0564.02.03		Tes	tCode: NWTPHDX_S
Sample ID: CCB Client ID: CCB	SampType: CCB Batch ID: 8954	TestNo: NWTPH-Dx Units: mg/Kg TestNo: NWTPH-Dx SW3545A	Prep Date: Analysis Date: <b>2/23/2015</b>	RunNo: <b>18976</b> SeqNo: <b>251817</b>
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit R	PD Ref Val %RPD RPDLimit Qual
Lube Oil Surr: o-Terpheny	ND 1 33.6	50.0 33.30	101 50 150	
Sample ID: CCV	SampType: CCV	TestCode: NWTPHDX_S Units: mg/Kg	Prep Date:	RunNo: <b>18976</b>
Client ID: CCV	Batch ID: 8954	TestNo: NWTPH-Dx SW3545A	Analysis Date: 2/24/2015	SeqNo: 251828
Analyte	Result	PQL SPK value SPK Ref Val	%REC LowLimit HighLimit R	PD Ref Val %RPD RPDLimit Qual
Diesel Lube Oil	1040 443	15.0999.0050.0499.50	1048511588.885115	

**Specialty Analytical** 

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul F 32nd S	Foster & Alongi t Remedial Action / 0564.02.0	)3					Т	estCode: N	WTPHGX_	_S	
Sample ID: Client ID:	CCV CCV	SampType: CCV Batch ID: 8967	TestCode: TestNo:	NWTPHGX_ NWTPH-Gx	_S Units: mg/Kg 5030_G_S		Prep Date Analysis Date	e: <b>2/24/201</b>	5	RunNo: 190 SeqNo: 252	005 2195	
Analyte		Result	PQL :	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		92.8	2.50	100.0	0	92.8	80	120				
Sample ID:	MB-8967	SampType: MBLK	TestCode:	NWTPHGX	_ <b>S</b> Units: mg/Kg		Prep Date	e: <b>2/24/20</b> 1	5	RunNo: 190	005	
Client ID:	PBS	Batch ID: 8967	TestNo:	NWTPH-Gx	5030_G_S		Analysis Date	e: <b>2/24/201</b>	5	SeqNo: 252	2196	
Analyte		Result	PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Surr: 4-B	romofluorobenzen	ND e 2.86	2.50	5.000		57.1	50	150				
Sample ID:	LCS-8967	SampType: LCS	TestCode:	NWTPHGX	_ <b>S</b> Units: mg/Kg		Prep Date	e: <b>2/24/20</b> 1	5	RunNo: <b>19</b>	005	
Sample ID: Client ID:	LCS-8967 LCSS	SampType: LCS Batch ID: 8967	TestCode: TestNo:	NWTPHGX_ NWTPH-Gx	_S Units: mg/Kg 5030_G_S		Prep Date Analysis Date	e: 2/24/201 e: 2/24/201	5	RunNo: 190 SeqNo: 252	005 2197	
Sample ID: Client ID: Analyte	LCS-8967 LCSS	SampType: LCS Batch ID: <b>8967</b> Result	TestCode: TestNo: PQL	NWTPHGX NWTPH-Gx SPK value	_S Units: mg/Kg 5030_G_S SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: <b>2/24/201</b> e: <b>2/24/201</b> HighLimit	5 5 RPD Ref Val	RunNo: <b>19</b> SeqNo: <b>25</b> %RPD	005 2197 RPDLimit	Qual
Sample ID: Client ID: Analyte Gasoline	LCS-8967 LCSS	SampType: LCS Batch ID: 8967 Result 42.3	TestCode: TestNo: PQL \$ 2.50	NWTPHGX NWTPH-Gx SPK value 50.00	_S Units: mg/Kg 5030_G_S SPK Ref Val 0	%REC 84.6	Prep Date Analysis Date LowLimit 53.5	e: <b>2/24/201</b> e: <b>2/24/201</b> HighLimit 121	<b>5</b> 5 RPD Ref Val	RunNo: <b>190</b> SeqNo: <b>25</b> %RPD	2 <b>197</b> RPDLimit	Qual
Sample ID: Client ID: Analyte Gasoline Sample ID:	LCS-8967 LCSS 1502195-001AD	SampType: LCS Batch ID: 8967 Result 42.3 UP SampType: DUP	TestCode: TestNo: PQL 2.50 TestCode:	NWTPHGX NWTPH-Gx SPK value 50.00 NWTPHGX	_S Units: mg/Kg 5030_G_S SPK Ref Val 0 _S Units: mg/Kg-o	%REC 84.6	Prep Date Analysis Date LowLimit 53.5 Prep Date	e: 2/24/201 e: 2/24/201 HighLimit 121 e: 2/24/201	5 5 RPD Ref Val 5	RunNo: 190 SeqNo: 252 %RPD RunNo: 190	005 2197 RPDLimit	Qual
Sample ID: Client ID: Analyte Gasoline Sample ID: Client ID:	LCS-8967 LCSS 1502195-001AD ZZZZZZ	SampType: LCS Batch ID: 8967 Result 42.3 UP SampType: DUP Batch ID: 8967	TestCode: TestNo: PQL 2.50 TestCode: TestNo:	NWTPHGX NWTPH-Gx SPK value 50.00 NWTPHGX NWTPH-Gx	_S Units: mg/Kg 5030_G_S SPK Ref Val 0 _S Units: mg/Kg-0 5030_G_S	%REC 84.6	Prep Date Analysis Date LowLimit 53.5 Prep Date Analysis Date	e: 2/24/201 e: 2/24/201 HighLimit 121 e: 2/24/201 e: 2/24/201	5 5 RPD Ref Val 5 5	RunNo: 190 SeqNo: 252 %RPD RunNo: 190 SeqNo: 252	005 2197 RPDLimit 005 2199	Qual
Sample ID: Client ID: Analyte Gasoline Sample ID: Client ID: Analyte	LCS-8967 LCSS 1502195-001AD ZZZZZZ	SampType: LCS Batch ID: 8967 Result 42.3 UP SampType: DUP Batch ID: 8967 Result	TestCode: TestNo: PQL 2 2.50 TestCode: TestNo: PQL 3	NWTPHGX NWTPH-Gx SPK value 50.00 NWTPHGX NWTPH-Gx SPK value	_S Units: mg/Kg 5030_G_S SPK Ref Val 0 _S Units: mg/Kg-t 5030_G_S SPK Ref Val	%REC 84.6 Iry %REC	Prep Date Analysis Date LowLimit 53.5 Prep Date Analysis Date LowLimit	e: 2/24/201 e: 2/24/201 HighLimit 121 e: 2/24/201 e: 2/24/201 HighLimit	5 FPD Ref Val 5 5 RPD Ref Val	RunNo: 190 SeqNo: 252 %RPD RunNo: 190 SeqNo: 252 %RPD	005 2197 RPDLimit 005 2199 RPDLimit	Qual
Sample ID: Client ID: Analyte Gasoline Sample ID: Client ID: Analyte Gasoline	LCS-8967 LCSS 1502195-001AD ZZZZZZ	SampType: LCS Batch ID: 8967 Result 42.3 UP SampType: DUP Batch ID: 8967 Result ND	TestCode: TestNo: PQL 2.50 TestCode: TestNo: PQL 3 3.20	NWTPHGX NWTPH-Gx SPK value 50.00 NWTPHGX NWTPH-Gx SPK value	_S Units: mg/Kg 5030_G_S SPK Ref Val 0 _S Units: mg/Kg-t 5030_G_S SPK Ref Val	%REC 84.6 Iry %REC	Prep Date Analysis Date LowLimit 53.5 Prep Date Analysis Date LowLimit	e: 2/24/201 e: 2/24/201 HighLimit 121 e: 2/24/201 e: 2/24/201 HighLimit	5 5 RPD Ref Val 5 5 RPD Ref Val 0	RunNo: 190 SeqNo: 252 %RPD RunNo: 190 SeqNo: 252 %RPD 200	005 2197 RPDLimit 005 2199 RPDLimit 20	Qual Qual RF

#### **Specialty Analytical**

В 0

RSD is greater than RSDlimit

R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit S

Spike Recovery outside accepted recovery

WO#: 1502185

<b>Specialty A</b>	nalytical
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Client:	Maul Foster	& Alongi									
Project:	32nd St Ren	nedial Action / 0564.02.03					Т	estCode: N	WTPHGX_	S	
Sample ID: Client ID:	1502185-001BDUP TP04-W2-11.0	SampType: DUP Batch ID: 8967	TestCode: NWTPH TestNo: NWTPH	IGX_S Units: mg/Kg I-Gx   5030_G_S	-dry	Prep Date Analysis Date	e: 2/24/201 e: 2/25/201	5	RunNo: <b>190</b> SeqNo: <b>252</b>	005 2206	
Analyte		Result	PQL SPK valu	ue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	3.05					0	0	20	
Sample ID:	сси	SampType: CCV	TestCode: NWTPH	IGX_S Units: mg/Kg		Prep Date	:		RunNo: 190	05	
Client ID:	ссу	Batch ID: 8967	TestNo: NWTPH	l-Gx 5030_G_S		Analysis Date	: <b>2/25/201</b>	5	SeqNo: 252	214	
Analyte		Result	PQL SPK valu	ue SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		128	2.50 125	.0 0	103	80	120				

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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WO#: 1502185

Client: Project:	N 3	1aul Foster & Alongi 2nd St Remedial Action / 0564.02.03	3						Т	estCode: 1	NWTPHGX	_SA	
Sample ID:	CCV	SampType: CCV	TestCode	: NWTPHG)	_s	Units: mg/Kg		Prep Dat	e:		RunNo: 19	001	
Client ID:	CCV	Batch ID: 8968	TestNo	: NWTPH-G	x	SW5035A		Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 25	2165	
Analyte		Result	PQL	SPK value	SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		92.8	2.50	100.0		0	92.8	80	120				
Sample ID:	MB-8968	SampType: MBLK	TestCode	: NWTPHG)	(_S	Units: <b>mg/Kg</b>		Prep Dat	e: <b>2/24/20</b>	15	RunNo: 19	001	
Client ID:	PBS	Batch ID: 8968	TestNo	: NWTPH-G	x	SW5035A		Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 25	2166	
Analyte		Result	PQL	SPK value	SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	2.50										
Surr: 4-B	sromofluoro	penzene 2.86		5.000			57.1	50	150				
Sample ID:	LCS-8968	SampType: LCS	TestCode	: NWTPHG)	(_S	Units: <b>mg/Kg</b>		Prep Dat	e: <b>2/24/20</b>	15	RunNo: 19	001	
Client ID:	LCSS	Batch ID: 8968	TestNo	: NWTPH-G	x	SW5035A		Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 25	2171	
Analyte		Result	PQL	SPK value	SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		42.3	2.50	50.00		0	84.6	53.5	121				
Sample ID:	CCV	SampType: CCV	TestCode	: NWTPHG)	(_S	Units: <b>mg/Kg</b>		Prep Dat	e:		RunNo: 19	001	
Client ID:	CCV	Batch ID: 8968	TestNo	: NWTPH-G	x	SW5035A		Analysis Dat	e: <b>2/25/20</b>	15	SeqNo: 25	2172	
Analyte		Result	PQL	SPK value	SF	PK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		143	2.50	125.0		0	114	80	120				

Qualifiers:

В

0

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

s exceeded ND Not Detected at the Reporting Limit

RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster 32nd St Ren	& Alongi nedial Action / 0564.02.	03					Т	estCode:	NWTPHGX_	_SA	
Sample ID: Client ID:	A1502185-001BDUP ZZZZZZ	SampType: <b>DUP</b> Batch ID: <b>8968</b>	TestCode TestNo	E NWTPHGX	(_S Units: mg/Kg x SW5035A		Prep Da Analysis Da	te: te: <b>2/25/20</b>	15	RunNo: <b>19</b> SeqNo: <b>25</b> 2	001 2174	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline		ND	2.50						0	0	20	

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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1502185 WO#:

05-Mar-15

Client: Project:	Maul Foster & A 32nd St Remedi	Alongi al Action / 0564.02.03	3					Т	estCode: P	PAHLL_S		
Sample ID: CCV-8	<b>958</b> Sa	трТуре: ССV	TestCode	e: PAHLL_S	Units: µg/Kg		Prep Date	e:		RunNo: 189	972	
Client ID: CCV	E	Batch ID: 8958	TestNo	: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 251	1786	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalen	e	136	6.67	133.3	0	102	80	120				
2-Methylnaphthalen	e	133	6.67	133.3	0	100	80	120				
Benz(a)anthracene		137	6.67	133.3	0	103	80	120				
Benzo(a)pyrene		150	6.67	133.3	0	112	80	120				
Benzo(b)fluoranther	ne	145	6.67	133.3	0	109	80	120				
Benzo(k)fluoranther	ne	148	6.67	133.3	0	111	80	120				
Chrysene		124	6.67	133.3	0	93.0	80	120				
Dibenz(a,h)anthrace	ene	134	6.67	133.3	0	100	80	120				
Indeno(1,2,3-cd)pyr	rene	134	6.67	133.3	0	101	80	120				
Sample ID: MB-89	<b>58</b> Sa	mpType: MBLK	TestCode	: PAHLL_S	Units: µg/Kg		Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	972	
Sample ID: MB-899 Client ID: PBS	<b>58</b> Sa E	mpType: <b>MBLK</b> Batch ID: <b>8958</b>	TestCode TestNo	e: PAHLL_S o: SW8270D	Units: µg/Kg SW 3545A		Prep Date Analysis Date	e: <b>2/23/20</b> e: <b>2/23/20</b>	15 15	RunNo: 189 SeqNo: 251	972 1787	
Sample ID: MB-899 Client ID: PBS Analyte	<b>58</b> Sa E	mpType: MBLK Batch ID: 8958 Result	TestCode TestNo PQL	e: <b>PAHLL_S</b> b: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 1 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend	<b>58</b> Sa E e	mpType: MBLK Batch ID: 8958 Result ND	TestCode TestNo PQL 6.67	e: PAHLL_S b: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene	<b>58</b> Sa E e e	mpType: MBLK Batch ID: 8958 Result ND ND	TestCode TestNo PQL 6.67 6.67	e: PAHLL_S o: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene	58 Sa E e e	mpType: MBLK Batch ID: 8958 Result ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67	e: PAHLL_S b: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene	<b>58</b> Sa E e e	mpType: MBLK Batch ID: 8958 Result ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67	e: PAHLL_S o: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther	<b>58</b> Sa E e e	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67	e: PAHLL_S b: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 1 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther	58 Sa E e e ne	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67	e: PAHLL_S b: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Chrysene	58 Sa E e e ne	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	e: PAHLL_S b: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 1 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Chrysene Dibenz(a,h)anthrace	58 Sa E e e e ne ne	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	e: PAHLL_S o: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene Benzo(a)pyrene Benzo(a)pfluoranther Benzo(k)fluoranther Chrysene Dibenz(a,h)anthrace Indeno(1,2,3-cd)pyr	58 Sa E e e e e ne ene ene	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	e: PAHLL_S o: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-899 Client ID: PBS Analyte 1-Methylnaphthalend 2-Methylnaphthalend Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranther Benzo(k)fluoranther Chrysene Dibenz(a,h)anthrace Indeno(1,2,3-cd)pyr Surr: 2-Fluorobipl	58 Sa E E e e e e ne ene ene ene henyl	mpType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCode TestNo PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	e: PAHLL_S p: SW8270D SPK value 6.667	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 1787 RPDLimit	Qual

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster 32nd St Ren	r & Alongi medial Action / 0564.02.03	3					Т	'estCode: I	PAHLL_S		
Sample ID: MB-8	3958	SampType: MBLK	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: PBS		Batch ID: 8958	Test	No: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 251	787	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenz Surr: p-Terphe	ene-d5 nyl-d14	7.73 8.51		6.667 6.667		116 128	21.7 44.9	155 155				
Sample ID: LCS-	-8958	SampType: LCS	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: LCS	S	Batch ID: 8958	Test	No: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 251	788	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthale	ene	271	6.67	333.3	0	81.2	29.1	109				
2-Methylnaphthale	ene	311	6.67	333.3	0	93.2	29.1	109				
Benz(a)anthracen	e	354	6.67	333.3	0	106	48.4	121				
Benzo(a)pyrene		382	6.67	333.3	0	115	37.7	137				
Benzo(b)fluoranth	iene	376	6.67	333.3	0	113	58.6	117				
Benzo(k)fluoranth	ene	392	6.67	333.3	0	118	46.1	124				
Chrysene		325	6.67	333.3	0	97.6	57.1	130				
Dibenz(a,h)anthra	acene	343	6.67	333.3	0	103	44.2	124				
Indeno(1,2,3-cd)p	byrene	349	6.67	333.3	0	105	47.9	121				
Sample ID: 1502	185-003AMS	SampType: <b>MS</b>	TestCo	de: PAHLL_S	Units: µg/Kg-	dry	Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: TP04	l-S1-10.5	Batch ID: 8958	Test	lo: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: <b>25</b> 1	795	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthale	ene	292	8.44	421.6	0	69.2	27.7	108				
2-Methylnaphthale	ene	296	8.44	421.6	0	70.2	27.7	108				
Qualifiers: E	<ul><li>Analyte detect</li><li>RSD is greater</li></ul>	ted in the associated Method Blank r than RSDlimit		H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	sexceeded	ND N S S	Not Detected at the Spike Recovery ou	e Reporting Limi itside accepted re	t Pag	e 26 of 29

### **Specialty Analytical**

WO#: 1502185

05-Mar-15

Client:Maul FosteProject:32nd St Re	r & Alongi medial Action / 0564.02	.03					Т	estCode: P	AHLL_S		
Sample ID: 1502185-003AMS	SampType: MS	TestCo	le: PAHLL_S	Units: µg/K	g-dry	Prep Dat	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: <b>TP04-S1-10.5</b>	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 251	795	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	417	8.44	421.6	1.880	98.5	63.4	121				
Benzo(a)pyrene	458	8.44	421.6	1.499	108	64.6	110				
Benzo(b)fluoranthene	485	8.44	421.6	1.372	115	41.6	172				
Benzo(k)fluoranthene	439	8.44	421.6	0.4924	104	47.9	140				
Chrysene	380	8.44	421.6	1.471	89.8	37.5	125				
Dibenz(a,h)anthracene	398	8.44	421.6	0	94.5	23.6	125				
Indeno(1,2,3-cd)pyrene	393	8.44	421.6	0	93.1	26.8	133				
Sample ID: 1502185-003AMSD	SampType: MSD	TestCoo	le: PAHLL_S	Units: µg/K	g-dry	Prep Dat	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: TP04-S1-10.5	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 251	796	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	295	8.44	421.6	0	69.9	27.7	108	291.8	1.06	20	
2-Methylnaphthalene	000	0.44	404.0	0		077	400	206.4	0.617	20	
	298	8.44	421.6	0	70.7	27.7	108	296.1	0.017	=•	
Benz(a)anthracene	298 403	8.44 8.44	421.6 421.6	0 1.880	70.7 95.1	63.4	108 121	296.1 417.3	3.53	20	
Benz(a)anthracene Benzo(a)pyrene	298 403 457	8.44 8.44 8.44	421.6 421.6 421.6	1.880 1.499	70.7 95.1 108	63.4 64.6	108 121 110	296.1 417.3 457.9	3.53 0.270	20 20	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	298 403 457 467	8.44 8.44 8.44 8.44	421.6 421.6 421.6 421.6	0 1.880 1.499 1.372	70.7 95.1 108 111	27.7 63.4 64.6 41.6	108 121 110 172	417.3 457.9 485.3	3.53 0.270 3.74	20 20 20	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	298 403 457 467 452	8.44 8.44 8.44 8.44 8.44	421.6 421.6 421.6 421.6 421.6 421.6	0 1.880 1.499 1.372 0.4924	70.7 95.1 108 111 107	27.7 63.4 64.6 41.6 47.9	108 121 110 172 140	417.3 457.9 485.3 438.8	3.53 0.270 3.74 2.98	20 20 20 20 20	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	298 403 457 467 452 365	8.44 8.44 8.44 8.44 8.44 8.44	421.6 421.6 421.6 421.6 421.6 421.6 421.6	0 1.880 1.499 1.372 0.4924 1.471	70.7 95.1 108 111 107 86.3	27.7 63.4 64.6 41.6 47.9 37.5	108 121 110 172 140 125	296.1 417.3 457.9 485.3 438.8 380.0	3.53 0.270 3.74 2.98 3.93	20 20 20 20 20 20	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene	298 403 457 467 452 365 397	8.44 8.44 8.44 8.44 8.44 8.44 8.44	421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6	0 1.880 1.499 1.372 0.4924 1.471 0	70.7 95.1 108 111 107 86.3 94.2	27.7 63.4 64.6 41.6 47.9 37.5 23.6	108 121 110 172 140 125 125	296.1 417.3 457.9 485.3 438.8 380.0 398.3	3.53 0.270 3.74 2.98 3.93 0.240	20 20 20 20 20 20 20	

**Specialty Analytical** 

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery

Page 27 of 29

1502185 WO#:

05-Mar-15

Client:Maul FProject:32nd S	Foster & Alongi t Remedial Action / 0564.02.0	3					Т	estCode: P	AHLL_S		
Sample ID: CCV-8958	SampType: CCV	TestCoo	de: <b>PAHLL_S</b>	Units: µg/Kg		Prep Dat	e:		RunNo: 189	72	
Client ID: CCV	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Dat	e: <b>2/24/20</b>	15	SeqNo: 251	958	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	144	6.67	133.3	0	108	80	120				
2-Methylnaphthalene	124	6.67	133.3	0	92.9	80	120				
Benz(a)anthracene	152	6.67	133.3	0	114	80	120				
Benzo(a)pyrene	159	6.67	133.3	0	119	80	120				
Benzo(b)fluoranthene	146	6.67	133.3	0	109	80	120				
Benzo(k)fluoranthene	137	6.67	133.3	0	102	80	120				
Chrysene	149	6.67	133.3	0	112	80	120				
Dibenz(a,h)anthracene	153	6.67	133.3	0	115	80	120				
Indeno(1,2,3-cd)pyrene	158	6.67	133.3	0	119	80	120				
Sample ID: CCB-8958	SampType: <b>CCB</b>	TestCoo	le: PAHLL_S	Units: µg/Kg		Prep Dat	e:		RunNo: 189	072	
Sample ID: CCB-8958 Client ID: CCB	SampType: CCB Batch ID: 8958	TestCoc TestN	de: PAHLL_S lo: SW8270D	Units: µg/Kg SW 3545A		Prep Dat Analysis Dat	e: e: <b>2/24/20</b>	15	RunNo: <b>189</b> SeqNo: <b>251</b>	959	
Sample ID: CCB-8958 Client ID: CCB Analyte	SampType: <b>CCB</b> Batch ID: <b>8958</b> Result	TestCoo TestN PQL	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: <b>189</b> SeqNo: <b>251</b> %RPD	9 <b>72</b> 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene	SampType: CCB Batch ID: 8958 Result ND	TestCoo TestN PQL 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	<b>15</b> RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	972 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene	SampType: CCB Batch ID: 8958 Result ND ND	TestCoc TestN PQL 6.67 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	<b>15</b> RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	9 <b>72</b> 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene	SampType: CCB Batch ID: 8958 Result ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	9 <b>72</b> 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	72 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67	de: <b>PAHLL_S</b> do: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	9 <b>59</b> RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	9 <b>72</b> 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	9 <b>72</b> 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	72 959 RPDLimit	Qual
Sample ID: CCB-8958 Client ID: CCB Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Surr: 2-Fluorobiphenyl	SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit 42.6	e: e: <b>2/24/20</b> HighLimit	15 RPD Ref Val	RunNo: 189 SeqNo: 251 %RPD	72 959 RPDLimit	Qual

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502185

05-Mar-15

Client: Project:	Maul Foster & Alongi 32nd St Remedial Actio	on / 0564.02.03						Т	estCode:	PAHLL_S		
Sample ID: CCB-8 Client ID: CCB	958 SampType: Batch ID:	CCB 8958	TestCode TestNo	PAHLL_S SW8270D	Units: µg/Kg SW 3545A		Prep Dat Analysis Dat	e: e: <b>2/24/20</b>	15	RunNo: <b>189</b> SeqNo: <b>251</b>	72 959	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Va	I %RPD	RPDLimit	Qual
Surr: Nitrobenzer	ne-d5	6.67		6.667		100	21.7	155				
Surr: p-Terpheny	1-d14	6.64		6.667		99.6	44.9	155				

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 29 of 29

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

#### **KEY TO FLAGS**

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- \* The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

	CHAIN (		SUS	0		00	Ô		Page	of 2	
Specialty Analytical 11711 SE Capps Road Clackamas, OR 97015 Phone: 503-607-1331			004.	ontact	Person/F	roject 1401 0000	Manager A Foster A E Mill	lan Hughes Alongi Main Blud			
Collected By: Zack C Tyle Signature Zack C Tyle				<sup>o</sup> hone <sub>-</sub> <sup>o</sup> roject <sup>o</sup> roject	NoSite Loca	564, tion OF	07.03 Pro	ject Name 32 nd 54	Pen	edial Ad	×.
Printed <u>EACHMAY FYLE</u>	ľ		-	nvoice	<u>o</u>			F.O. NO.			
Signature	<u></u>				Analy	(ses		For Laborato	ν Use		
Turn Around Time		ners	,					Air Bill No.			
ロ Normal 5-7 Business Days むRush イピートイ			H	×9-	(			Temperature On Receipt	<u>'</u> c		
Specify Rush Analyses Must Be Scheduled With The Lab In Advance		TO ON	AJ2	HATWH	<b>2</b> 928			Specialty Analytical Contain Specialty Analytical Trip Bla	ners? Y/ anks? Y/	z Z	
Date Time Sample I.D.	Matrix			1				Comments		Lab I.D.	
2/19/15 13:58 TPOH- W2-11.0	S	X 7	X	×	×			"WI" does not East			
12:05 TPOH-E1-9.5	S	× J	×	×	×			5035 Propensives	~		
14:12 TP04 - 51 - 10.5	S	× 2	×	x	د ا						
112:15 TPOH-NI-100	S	N N	×	8	x						
H:20 TP04-B1 - 15,0	S	× رما	×	 لا	5			-1			
15:25 TP03-E1- 1.0	S	×									
12:50 TP03 - NI - 1,0	S	× -/									
15:15 TP03-B1-1.5	S	×			_						
15:35 TPO3-WI-10	S	×									
15:30 TP03 - SI - 1.0	6	8									
					_			- - - - - - - - - - - - - - - - - - -			
		_			Á						
Relinquished By: ZuckAAPY Pruf Date Time Company: MFA	Received B Company		200	A)	V	273	Relinquished By:	mark y	Date Le/i5	Time (ういく	
Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt. Samples held beyond 60 days subject to storage fee(s)					$\rangle$	<u> </u>	Received For Lab B	el pror	Date 15	Time 15,05	
						1	0				



# **Specialty Analytical**

11711 SE Capps Road, Ste B Clackamas, Oregon 97015 TEL: 503-607-1331 FAX: 503-607-1336 Website: <u>www.specialtyanalytical.com</u>

February 25, 2015

Alan Hughes Maul Foster & Alongi 400 E. Mill Plain Blvd. Suite 400 Vancouver, WA 98660 TEL: (360) 694-2691 FAX (360) 906-1958 RE: 32nd Street Remedial Action / 0564.02.03 Dear Alan Hughes:

Order No.: 1502199

Specialty Analytical received 2 sample(s) on 2/23/2015 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications, except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,

Marty French Lab Director

### **Specialty Analytical**

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

**Collection Date:** 2/20/2015 1:20:00 PM

 Project:
 32nd Street R

 Lab ID:
 1502199-001

32nd Street Remedial Action / 0564.02.03 1502199-001

Client Sample ID: TP01-S2-10.0

Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	18.4	A3	mg/Kg-dry	1	2/25/2015 11:42:02 AM
Hydraulic Oil	663	61.4		mg/Kg-dry	1	2/25/2015 11:42:02 AM
Lube Oil	ND	61.4	A3	mg/Kg-dry	1	2/25/2015 11:42:02 AM
Surr: o-Terphenyl	106	50-150		%REC	1	2/25/2015 11:42:02 AM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
2-Methylnaphthalene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Benz(a)anthracene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Benzo(a)pyrene	10.0	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Benzo(b)fluoranthene	12.3	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Benzo(k)fluoranthene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Chrysene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Dibenz(a,h)anthracene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	8.20		µg/Kg-dry	1	2/23/2015 4:28:00 PM
Surr: 2-Fluorobiphenyl	119	42.6-128		%REC	1	2/23/2015 4:28:00 PM
Surr: Nitrobenzene-d5	124	21.7-155		%REC	1	2/23/2015 4:28:00 PM
Surr: p-Terphenyl-d14	155	44.9-155	S	%REC	1	2/23/2015 4:28:00 PM

### **Specialty Analytical**

Date Reported: 25-Feb-15

CLIENT:

Maul Foster & Alongi

Collection Date: 2/20/2015 10:55:00 AM

 Project:
 32nd Street Remedial Action / 0564.02.03

 Lab ID:
 1502199-002

 Client Sample ID:
 TP01-B2-17.0

Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		NWTPH-DX				Analyst: <b>BS</b>
Diesel	ND	20.1		mg/Kg-dry	1	2/24/2015 5:56:02 PM
Lube Oil	ND	67.0		mg/Kg-dry	1	2/24/2015 5:56:02 PM
Surr: o-Terphenyl	90.2	50-150		%REC	1	2/24/2015 5:56:02 PM
PAH'S BY GC/MS - LOW LEVEL		SW8270D				Analyst: <b>bda</b>
1-Methylnaphthalene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
2-Methylnaphthalene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Benz(a)anthracene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Benzo(a)pyrene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Benzo(b)fluoranthene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Benzo(k)fluoranthene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Chrysene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Dibenz(a,h)anthracene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Indeno(1,2,3-cd)pyrene	ND	8.94		µg/Kg-dry	1	2/24/2015 9:39:00 AM
Surr: 2-Fluorobiphenyl	109	42.6-128		%REC	1	2/24/2015 9:39:00 AM
Surr: Nitrobenzene-d5	61.8	21.7-155		%REC	1	2/24/2015 9:39:00 AM
Surr: p-Terphenyl-d14	109	44.9-155		%REC	1	2/24/2015 9:39:00 AM

WO#: **1502199** 

25-Feb-15

Client: Project:	Maul Foster & 32nd Street Rer	Alongi nedial Action / 0564.02	2.03						Т	SestCode: N	IWTPHDX	_S	
Sample ID: CCV	Sa	ampType: CCV	TestCode		_S	Units: mg/Kg		Prep Dat	e: e: 2/24/20	115	RunNo: 19	010	
Analyte		Result	PQL	SPK value	<b>S</b> P	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		1030 425	15.0 50.0	999.0 499.5		0 0	103 85.1	85 85	115 115				
Sample ID: MB-8 Client ID: PBS	<b>963</b> Sa	ampType: <b>MBLK</b> Batch ID: <b>8963</b>	TestCode TestNo	e: NWTPHDX D: NWTPH-D>	_S (	Units: mg/Kg SW3545A		Prep Date Analysis Date	e: <b>2/23/20</b> e: <b>2/24/20</b>	n15 n15	RunNo: 19 SeqNo: 25	0010 62279	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil Surr: o-Terphen	yl	ND ND 29.9	15.0 50.0	33.33			89.7	50	150				
Sample ID: LCS-	<b>8963</b> Sa	ampType: <b>LCS</b> Batch ID: <b>8963</b>	TestCode TestNo	e: NWTPHDX D: NWTPH-D>	_S (	Units: mg/Kg SW3545A		Prep Date Analysis Date	e: <b>2/23/20</b> e: <b>2/24/20</b>	n15 n15	RunNo: 19 SeqNo: 25	010 2280	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Lube Oil		141 142	15.0 50.0	166.7 166.7		0 0	84.4 85.3	76.3 69.9	125 127				
Sample ID: 1502 Client ID: TP01	1 <b>99-002ADUP</b> Sá - <b>B2-17.0</b>	ampType: <b>DUP</b> Batch ID: <b>8963</b>	TestCode TestNo	e: NWTPHDX D: NWTPH-D>	_S (	Units: mg/Kg-o SW3545A	dry	Prep Date Analysis Date	e: <b>2/23/20</b> e: <b>2/24/20</b>	15 15	RunNo: 19 SeqNo: 25	0010 52283	
Analyte		Result	PQL	SPK value	SP	K Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Qualifiers: B	Analyte detected in RSD is greater than	the associated Method Blank RSDlimit		H Holdin R RPD o	g tim utside	es for preparation	or analysis y limits	exceeded	ND S	Not Detected at the Spike Recovery ou	e Reporting Lim	hit F	Page 1 of 8

### **Specialty Analytical**

WO#: **1502199** 

25-Feb-15

Client: Project:	Maul Foster 32nd Street	& Alongi Remedial Action / 0564.02	2.03					Т	estCode: N	NWTPHDX_	S	
Sample ID:	1502199-002ADUP	SampType: <b>DUP</b>	TestCode	: NWTPHDX	_S Units: mg/Kg-	dry	Prep Da	te: 2/23/20	15	RunNo: 190	)10	
Client ID:	TP01-B2-17.0	Batch ID: 8963	TestNo	NWTPH-Dx	SW3545A		Analysis Da	te: 2/24/20	15	SeqNo: 252	2283	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	20.1						0	0	20	
Lube Oil		ND	67.0						0	200	20	RF
Sample ID:	CCV	SampType: CCV	TestCode		_S Units: mg/Kg		Prep Da	te:		RunNo: 190	)10	
Client ID:	CCV	Batch ID: 8963	TestNo	: NWTPH-Dx	SW3545A		Analysis Da	te: 2/25/20	15	SeqNo: 252	2285	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		1030	15.0	999.0	0	103	85	115				
Hydraulic C	vil	161	50.0	166.5	0	97.0	85	115				
Lube Oil		437	50.0	499.5	0	87.5	85	115				
					• • • • • • • • •							
Sample ID:	ССВ	SampType: CCB	TestCode		_S Units: mg/Kg		Prep Da	te:		RunNo: <b>190</b>	010	
Client ID:	ССВ	Batch ID: 8963	TestNo	: NWTPH-Dx	SW3545A		Analysis Da	te: 2/25/20	15	SeqNo: 252	2286	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel		ND	15.0									
Hydraulic C	vil	ND	50.0									
Lube Oil		ND	50.0									
Surr: o-T	erphenyl	30.5		33.30		91.5	50	150				

#### **Specialty Analytical**

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 2 of 8

WO#: 1502199

25-Feb-15

Client: Project:	Maul Foster & Alongi 32nd Street Remedial Action / 05	564.02.03					Т	estCode:	NWTPHDX_	S	
Sample ID: CCV Client ID: CCV	SampType: CCV Batch ID: 8963	TestCode TestNo	e: NWTPHDX D: NWTPH-D	(_S Units: mg/Kg x SW3545A		Prep Dat Analysis Dat	e: e: <b>2/25/20</b>	15	RunNo: <b>190</b> SeqNo: <b>252</b>	10 289	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1220	15.0	1332	0	91.6	85	115				
Hydraulic Oil	352	50.0	333.0	0	106	85	115				
Lube Oil	670	50.0	666.0	0	101	85	115				

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

Page 3 of 8

WO#: 1502199

25-Feb-15

Client: Project:	Maul Foster & Alongi 32nd Street Remedial Action / 05	564.02.03					Т	estCode: P	PAHLL_S		
Sample ID: CCV-89	58 SampType: CCV	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Dat	e:		RunNo: 18	972	
Client ID: CCV	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 25	1786	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	136	6.67	133.3	0	102	80	120				
2-Methylnaphthalene	133	6.67	133.3	0	100	80	120				
Benz(a)anthracene	137	6.67	133.3	0	103	80	120				
Benzo(a)pyrene	150	6.67	133.3	0	112	80	120				
Benzo(b)fluoranthene	e 145	6.67	133.3	0	109	80	120				
Benzo(k)fluoranthene	148	6.67	133.3	0	111	80	120				
Chrysene	124	6.67	133.3	0	93.0	80	120				
Dibenz(a,h)anthracen	ne 134	6.67	133.3	0	100	80	120				
Indeno(1,2,3-cd)pyrer	ne 134	6.67	133.3	0	101	80	120				
Sample ID: MB-8958	B SampType: MBLK	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Dat	e: <b>2/23/20</b>	15	RunNo: 189	972	
Sample ID: MB-8958 Client ID: PBS	8 SampType: MBLK Batch ID: 8958	TestCoo TestN	de: PAHLL_S No: SW8270D	Units: µg/Kg SW 3545A		Prep Date Analysis Date	e: 2/23/20 e: 2/23/20	15 15	RunNo: <b>18</b> SeqNo: <b>25</b>	972 1787	
Sample ID: MB-8958 Client ID: PBS Analyte	B SampType: MBLK Batch ID: 8958 Result	TestCo TestN PQL	de: PAHLL_S No: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Date Analysis Date LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 7 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene	B SampType: MBLK Batch ID: 8958 Result ND	TestCoc TestN PQL 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> 7 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene	8 SampType: MBLK Batch ID: 8958 Result ND ND	TestCoc TestN PQL 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: <b>2/23/20</b> e: <b>2/23/20</b> HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 25 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene	8 SampType: MBLK Batch ID: 8958 Result ND ND	TestCoc TestN PQL 6.67 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 25 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene	8 SampType: MBLK Batch ID: 8958 Result ND ND ND ND	TestCoo TestN PQL 6.67 6.67 6.67 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 189 SeqNo: 25 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND	TestCoo TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67	de: PAHLL_S lo: SW8270D SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> 9 SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracen	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoc TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: 18 SeqNo: 25 %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrere	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoo TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual
Sample ID: MB-8958 Client ID: PBS Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benzo(a)pyrene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracen Indeno(1,2,3-cd)pyrer Surr: 2-Fluorobiphe	B SampType: MBLK Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND ND ND ND	TestCoo TestN PQL 6.67 6.67 6.67 6.67 6.67 6.67 6.67 6.6	de: <b>PAHLL_S</b> lo: <b>SW8270D</b> SPK value	Units: µg/Kg SW 3545A SPK Ref Val	%REC	Prep Dat Analysis Dat LowLimit	e: 2/23/20 e: 2/23/20 HighLimit	15 15 RPD Ref Val	RunNo: <b>18</b> SeqNo: <b>25</b> %RPD	972 1787 RPDLimit	Qual

**Specialty Analytical** 

WO#: **1502199** 

25-Feb-15

Client:Maul FostProject:32nd Street	er & Alongi et Remedial Action / 0564.0	.02.03					Т	estCode: P	PAHLL_S		
Sample ID: MB-8958	SampType: MBLK	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	972	
Client ID: PBS	Batch ID: 8958	Test	No: SW8270D	SW 3545A		Analysis Date: 2/23/2015			SeqNo: 251	787	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5 Surr: p-Terphenyl-d14	7.73 8.51		6.667 6.667		116 128	21.7 44.9	155 155				
Sample ID: LCS-8958	SampType: LCS	TestCo	de: PAHLL_S	Units: µg/Kg		Prep Date	e: <b>2/23/20</b> °	15	RunNo: 189	972	
Client ID: LCSS	Batch ID: 8958	Test	No: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 251	788	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	271	6.67	333.3	0	81.2	29.1	109				
2-Methylnaphthalene	311	6.67	333.3	0	93.2	29.1	109				
Benz(a)anthracene	354	6.67	333.3	0	106	48.4	121				
Benzo(a)pyrene	382	6.67	333.3	0	115	37.7	137				
Benzo(b)fluoranthene	376	6.67	333.3	0	113	58.6	117				
Benzo(k)fluoranthene	392	6.67	333.3	0	118	46.1	124				
Chrysene	325	6.67	333.3	0	97.6	57.1	130				
Dibenz(a,h)anthracene	343	6.67	333.3	0	103	44.2	124				
Indeno(1,2,3-cd)pyrene	349	6.67	333.3	0	105	47.9	121				
Sample ID: 1502185-003AMS	SampType: <b>MS</b>	TestCo	de: PAHLL_S	Units: µg/Kg-a	dry	Prep Date	e: <b>2/23/20</b>	15	RunNo: 189	)72	
Client ID: ZZZZZZ	Batch ID: 8958	Test	No: SW8270D	SW 3545A		Analysis Date	e: <b>2/23/20</b>	15	SeqNo: 251	795	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	292	8.44	421.6	0	69.2	27.7	108				
2-Methylnaphthalene	296	8.44	421.6	0	70.2	27.7	108				
Qualifiers: B Analyte dete O RSD is great	cted in the associated Method Blank ter than RSDlimit		H Holdin R RPD o	g times for preparation utside accepted recover	or analysis y limits	exceeded	ND N S S	lot Detected at the pike Recovery ou	e Reporting Limitstide accepted re	t P	Page 5 of 8

### **Specialty Analytical**

WO#: 1502199

25-Feb-15

Client:Maul FosteProject:32nd Street	r & Alongi t Remedial Action / 0564	4.02.03					Т	estCode: P	AHLL_S		
Sample ID: 1502185-003AMS	SampType: MS	TestCo	de: PAHLL_S	Units: µg/Kg	g-dry	Prep Dat	e: <b>2/23/20</b>	15	RunNo: 189	972	
Client ID: ZZZZZZ	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: 251	795	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	417	8.44	421.6	1.880	98.5	63.4	121				
Benzo(a)pyrene	458	8.44	421.6	1.499	108	64.6	110				
Benzo(b)fluoranthene	485	8.44	421.6	1.372	115	41.6	172				
Benzo(k)fluoranthene	439	8.44	421.6	0.4924	104	47.9	140				
Chrysene	380	8.44	421.6	1.471	89.8	37.5	125				
Dibenz(a,h)anthracene	398	8.44	421.6	0	94.5	23.6	125				
Indeno(1,2,3-cd)pyrene	393	8.44	421.6	0	93.1	26.8	133				
Sample ID: 1502185-003AMSD		TootCor			a alas c	Pren Dat	e: <b>2/23/20</b>	15	RunNo: 189	972	
Campio IB. TOULIOU COOTINOD	Sampiype: <b>WSD</b>	Tesicol	ae: PAHLL_5	υπιδ. <b>μ<u>γ</u>/κ</b> ί	j-ary	i icp Dai					
Client ID: ZZZZZZ	Batch ID: 8958	TestN	lo: SW8270D	SW 3545A	j-ary	Analysis Dat	e: <b>2/23/20</b>	15	SeqNo: <b>251</b>	796	
Client ID: ZZZZZZ	Batch ID: 8958 Result	TestN PQL	No: SW8270D	SPK Ref Val	%REC	Analysis Dat	e: <b>2/23/20</b> HighLimit	<b>15</b> RPD Ref Val	SeqNo: 251 %RPD	1 <b>796</b> RPDLimit	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene	Batch ID: 8958 Result	PQL 8.44	Io: SW8270D SPK value 421.6	SW 3545A SPK Ref Val	%REC 69.9	Analysis Dat LowLimit 27.7	e: <b>2/23/20</b> HighLimit 108	15 RPD Ref Val 291.8	SeqNo: 251 %RPD 1.06	RPDLimit	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene	Batch ID: 8958 Result 295 298	PQL 8.44 8.44	421.6 421.6	SW 3545A SPK Ref Val 0 0	%REC 69.9 70.7	Analysis Dat LowLimit 27.7 27.7	e: <b>2/23/20</b> HighLimit 108 108	15 RPD Ref Val 291.8 296.1	SeqNo: 251 %RPD 1.06 0.617	RPDLimit 20 20	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene	Batch ID: 8958 Result 295 298 403	PQL 8.44 8.44 8.44	20: <b>SW8270D</b> SPK value 421.6 421.6 421.6	SW 3545A SPK Ref Val 0 1.880	%REC 69.9 70.7 95.1	Analysis Dat LowLimit 27.7 27.7 63.4	e: 2/23/20 HighLimit 108 108 121	15 RPD Ref Val 291.8 296.1 417.3	SeqNo: 251 %RPD 1.06 0.617 3.53	20 20 20	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene	Samp Type: MSD Batch ID: 8958 Result 295 298 403 457	PQL 8.44 8.44 8.44 8.44 8.44	29: PAHLL_S No: SW8270D SPK value 421.6 421.6 421.6 421.6	SPK Ref Val 0 1.880 1.499	%REC 69.9 70.7 95.1 108	Analysis Dat LowLimit 27.7 27.7 63.4 64.6	e: 2/23/20 HighLimit 108 108 121 110	15 RPD Ref Val 291.8 296.1 417.3 457.9	SeqNo: 251 %RPD 1.06 0.617 3.53 0.270	200 200 200 200 200 200	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	Batch ID: 8958 Result 295 298 403 457 467	PQL 8.44 8.44 8.44 8.44 8.44 8.44	20: <b>SW8270D</b> SPK value 421.6 421.6 421.6 421.6 421.6 421.6 421.6	SPK Ref Val 0 1.880 1.499 1.372	%REC 69.9 70.7 95.1 108 111	Analysis Dat LowLimit 27.7 27.7 63.4 64.6 41.6	e: 2/23/20 HighLimit 108 108 121 110 172	15 RPD Ref Val 291.8 296.1 417.3 457.9 485.3	SeqNo: 251 %RPD 1.06 0.617 3.53 0.270 3.74	200 200 200 200 200 200 200 200	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	Batch ID: 8958 Result 295 298 403 457 467 452	PQL 8.44 8.44 8.44 8.44 8.44 8.44 8.44 8.4	20: <b>SW8270D</b> SPK value 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6	SPK Ref Val 0 0 1.880 1.499 1.372 0.4924	%REC 69.9 70.7 95.1 108 111 107	Analysis Dat LowLimit 27.7 27.7 63.4 64.6 41.6 47.9	e: 2/23/20 HighLimit 108 108 121 110 172 140	15 RPD Ref Val 291.8 296.1 417.3 457.9 485.3 438.8	SeqNo: 251 %RPD 1.06 0.617 3.53 0.270 3.74 2.98	RPDLimit 20 20 20 20 20 20 20 20 20	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	Batch ID: 8958 Result 295 298 403 457 467 452 365	PQL 8.44 8.44 8.44 8.44 8.44 8.44 8.44 8.4	29: PAHLL_S No: SW8270D SPK value 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6	SPK Ref Val 0 0 1.880 1.499 1.372 0.4924 1.471	%REC 69.9 70.7 95.1 108 111 107 86.3	Analysis Dat LowLimit 27.7 27.7 63.4 64.6 41.6 47.9 37.5	e: 2/23/20 HighLimit 108 108 121 110 172 140 125	15 RPD Ref Val 291.8 296.1 417.3 457.9 485.3 438.8 380.0	SeqNo: 251 %RPD 1.06 0.617 3.53 0.270 3.74 2.98 3.93	RPDLimit 200 200 200 200 200 200 200 200 200	Qual
Client ID: ZZZZZZ Analyte 1-Methylnaphthalene 2-Methylnaphthalene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene	Batch ID: 8958 Result 295 298 403 457 467 452 365 397	PQL 8.44 8.44 8.44 8.44 8.44 8.44 8.44 8.4	20: <b>SW8270D</b> SPK value 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6 421.6	SPK Ref Val 0 0 1.880 1.499 1.372 0.4924 1.471 0	%REC 69.9 70.7 95.1 108 111 107 86.3 94.2	Analysis Dat LowLimit 27.7 27.7 63.4 64.6 41.6 47.9 37.5 23.6	e: 2/23/20 HighLimit 108 108 121 110 172 140 125 125	15 RPD Ref Val 291.8 296.1 417.3 457.9 485.3 438.8 380.0 398.3	SeqNo: 251 %RPD 1.06 0.617 3.53 0.270 3.74 2.98 3.93 0.240	RPDLimit 20 20 20 20 20 20 20 20 20 20 20 20	Qual

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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1502199 WO#:

25-Feb-15

ul Foster & Alongi d Street Remedial Action / 0564.0	02.03					Т	estCode: P	AHLL_S		
SampType: CCV	TestCod	le: PAHLL_S	Units: µg/Kg		Prep Date	9:		RunNo: 189	972	
Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Date	e: <b>2/24/20</b> 7	15	SeqNo: 251	958	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
144	6.67	133.3	0	108	80	120				
124	6.67	133.3	0	92.9	80	120				
152	6.67	133.3	0	114	80	120				
159	6.67	133.3	0	119	80	120				
146	6.67	133.3	0	109	80	120				
137	6.67	133.3	0	102	80	120				
149	6.67	133.3	0	112	80	120				
153	6.67	133.3	0	115	80	120				
158	6.67	133.3	0	119	80	120				
SampType: CCB	TestCod	le: PAHLL_S	Units: µg/Kg		Prep Date	e:		RunNo: 189	972	
Batch ID: 8958	TestN	lo: SW8270D	SW 3545A		Analysis Date	e: <b>2/24/20</b> °	15	SeqNo: 251	959	
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ND	6.67									
ND	6.67									
ND	6.67									
ND	6.67									
ND	6.67									
ND	6.67									
ND	6.67									
ND	6.67									
	6 67									
ND	0.07									
	Il Foster & Alongi d Street Remedial Action / 0564.0 SampType: CCV Batch ID: 8958 Result 144 124 152 159 146 137 149 153 158 SampType: CCB Batch ID: 8958 Result ND ND ND ND ND ND ND ND ND ND	Il Foster & Alongi d Street Remedial Action / 0564.02.03 SampType: CCV TestCoo Batch ID: 8958 TestN Result PQL 144 6.67 124 6.67 152 6.67 159 6.67 146 6.67 137 6.67 149 6.67 153 6.67 158 6.67 158 6.67 SampType: CCB TestCoo Batch ID: 8958 TestN Result PQL ND 6.67 ND 6.67	Il Foster & Alongi d Street Remedial Action / 0564.02.03 SampType: CCV TestCode: PAHLL_S Batch ID: 8958 TestNo: SW8270D Result PQL SPK value 144 6.67 133.3 124 6.67 133.3 152 6.67 133.3 152 6.67 133.3 159 6.67 133.3 159 6.67 133.3 146 6.67 133.3 146 6.67 133.3 149 6.67 133.3 158 7estNo: SW8270D Result PQL SPK value ND 6.67 ND 6.6	Il Foster & Alongi d Street Remedial Action / 0564.02.03 SampType: CCV TestCode: PAHLL_S Units: μg/Kg Batch ID: 8958 TestNo: SW8270D SW 3545A Result PQL SPK value SPK Ref Val 144 6.67 133.3 0 124 6.67 133.3 0 152 6.67 133.3 0 159 6.67 133.3 0 159 6.67 133.3 0 146 6.67 133.3 0 146 6.67 133.3 0 147 6.67 133.3 0 149 6.67 133.3 0 158 6.67 133.3 0 159 6.67 133.3 0 150 6.67 130 10 150 6.67 10 15	Il Foster & Alongi d Street Remedial Action / 0564.02.03 SampType: CCV TestCode: PAHLL_S Units: µg/Kg Batch ID: 8958 TestNo: SW8270D SW 3545A Result PQL SPK value SPK Ref Val %REC 144 6.67 133.3 0 108 124 6.67 133.3 0 92.9 152 6.67 133.3 0 114 159 6.67 133.3 0 114 159 6.67 133.3 0 119 146 6.67 133.3 0 109 137 6.67 133.3 0 109 137 6.67 133.3 0 102 149 6.67 133.3 0 112 153 6.67 133.3 0 112 158 6.67 133.3 0 112 158 6.67 133.3 0 115 158 6.67 133.3 0 115 158 6.67 SW8270D SW 3545A Result PQL SPK value SPK Ref Val %REC ND 6.67 ND 6.67	Il Foster & Alongi d Street Remedial Action / 0564.02.03 SampType: CCV TestCode: PAHLL_S Units: μg/Kg Prep Date Batch ID: 8958 TestNo: SW8270D SW 3545A Analysis Date Result PQL SPK value SPK Ref Val %REC LowLimit 144 6.67 133.3 0 108 80 124 6.67 133.3 0 108 80 124 6.67 133.3 0 108 80 152 6.67 133.3 0 114 80 159 6.67 133.3 0 119 80 146 6.67 133.3 0 119 80 146 6.67 133.3 0 119 80 147 6.67 133.3 0 119 80 148 6.67 133.3 0 119 80 149 6.67 133.3 0 112 80 153 6.67 133.3 0 112 80 158 6.67 133.3 0 115 80 158 6.67 133.3 0 119 80 159 SampType: CCB TestCode: PAHLL_S Units: μg/Kg Prep Date Result PQL SPK value SPK Ref Val %REC LowLimit ND 6.67 ND 6.67	Il Foster & Alongi d Street Remedial Action / 0564.02.03 T SampType: CCV TestCode: PAHLL_S Units: µg/Kg Prep Date: Batch ID: 8958 TestNo: SW8270D SW 3545A Analysis Date: 2/24/20 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 144 6.67 133.3 0 108 80 120 124 6.67 133.3 0 108 80 120 152 6.67 133.3 0 114 80 120 159 6.67 133.3 0 119 80 120 159 6.67 133.3 0 109 80 120 146 6.67 133.3 0 109 80 120 146 6.67 133.3 0 109 80 120 149 6.67 133.3 0 109 80 120 158 6.67 133.3 0 119 80 120 158 6.67 133.3 0 112 80 120 158 6.67 133.3 0 119 80 120 158 6.67 133.3 0 15 80 120 158 6.67 130 15 80 120 158 6.67 130 15 80 120 158 150 150 150 150 150 150 150 150 150 150	Il Foster & Alongi d Street Remedial Action / 0564.02.03	Test Remedial Action / 0564.02.03       TestCode: PAHLL_S       TestCode: PAHLL_S       TestCode: PAHLL_S       TestCode: PAHLL_S       TestCode: PAHLL_S       TestCode: PAHLL_S       Runhv: 188         Batch ID:       8958       TestTox:       SW8270D       SW 3545A       Analysis Date:       2/24/2015       SeqNo:       251         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       RPD Ref Val       %RPD         144       6.67       133.3       0       108       80       120       \$%RPD         152       6.67       133.3       0       119       80       120       \$%RPD       \$	Il Foster & Alongi       TestCode: PAHLL_S       TestCode: PAHLL_S       Units: µg/Kg       TestCode: PAHLL_S       RunNo: 18972         SampType:       CCV       TestCode:       PAHLL_S       Units:       µg/Kg       Prep Date:       RunNo:       18972         Batch ID:       8958       TestNo:       SW8270D       SW 3545A       Analysis Date:       2/24/2015       SeqNo:       25195         Result       PQL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       RPD Ref Val       %RPD       RPDLinit         144       6.67       133.3       0       108       80       120         RPD Linit       RPD Ref Val       %RPD       RPD Linit         149       6.67       133.3       0       114       80       120             139       6.67       133.3       0       109       80       120

O RSD is greater than RSDlimit

**Specialty Analytical** 

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

WO#: 1502199

25-Feb-15

|--|

Client: Project:	Maul Foster & Alongi 32nd Street Remedial A	Action / 0	564.02.03					Т	estCode:	PAHLL_S		
Sample ID: CCB-89 Client ID: CCB	58 SampType: Batch ID:	CCB 8958	TestCode TestNo	: PAHLL_S : SW8270D	Units: <b>µg/Kg</b> SW 3545A		Prep Dat Analysis Dat	e: e: <b>2/24/20</b>	15	RunNo: <b>189</b> SeqNo: <b>251</b>	72 959	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzen Surr: p-Terphenyl	9-d5 d14	6.67 6.64		6.667 6.667		100 99.6	21.7 44.9	155 155				

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery

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#### **KEY TO FLAGS**

- A This sample contains a Gasoline Range Organic not identified as a specific hydrocarbon product. The result was quantified against gasoline calibration standards
- A1 This sample contains a Diesel Range Organic not identified as a specific hydrocarbon product. The result was quantified against diesel calibration standards.
- A2 This sample contains a Lube Oil Range Organic not identified as a specific hydrocarbon product. The result was quantified against a lube oil calibration standard.
- A3 The result was determined to be Non-Detect based on hydrocarbon pattern recognition. The product was carry-over from another hydrocarbon type.
- A4 The product appears to be aged or degraded diesel.
- B The blank exhibited a positive result great than the reporting limit for this compound.
- CN See Case Narrative.
- D Result is based from a dilution.
- E Result exceeds the calibration range for this compound. The result should be considered as estimate.
- F The positive result for this hydrocarbon is due to single component contamination. The product does not match any hydrocarbon in the fuels library.
- G Result may be biased high due to biogenic interferences. Clean up is recommended.
- H Sample was analyzed outside recommended holding time.
- HT At clients request, samples was analyzed outside of recommended holding time.
- J The result for this analyte is between the MDL and the PQL and should be considered as estimated concentration.
- K Diesel result is biased high due to amount of Oil contained in the sample.
- L Diesel result is biased high due to amount of Gasoline contained in the sample.
- M Oil result is biased high due to amount of Diesel contained in the sample.
- MC Sample concentration is greater than 4x the spiked value, the spiked value is considered insignificant.
- MI Result is outside control limits due to matrix interference.
- MSA Value determined by Method of Standard Addition.
- O Laboratory Control Standard (LCS) exceeded laboratory control limits, but meets CCV criteria. Data meets EPA requirements.
- Q Detection levels elevated due to sample matrix.
- R RPD control limits were exceeded.
- RF Duplicate failed due to result being at or near the method-reporting limit.
- RP Matrix spike values exceed established QC limits; post digestion spike is in control.
- S Recovery is outside control limits.
- SC Closing CCV or LCS exceeded high recovery control limits, but associated samples are non-detect. Data meets EPA requirements.
- \* The result for this parameter was greater that the maximum contaminant level of the TCLP regulatory limit.

Specialty Analytical         11711 SE Capps Road         11711 SE Capps Road         11711 SE Capps Road         Clackamas, OR 97015         Phone: 503-607-1331         Fax: 503-607-1336         Collected BY:         Fax: 503-607-1336         Signature         Printed         Tum Around Time         Im Around Time         Im Around Time         Signature         Signature         Faxtush         Basering         Second         Austree         Second         Austree         Second         Austree         Second         Austree         Austree         Second         Austree		AND XX HAD I	UUY Idress Dimpany didress did	ALC son/Proje	or o		A A a	A Hudrey Analytical T Shipped Via Billod. Cother P.C. Shipped Via Bron Rec Specialty Analytical T Specialty Analytical T Specialty Analytical T	Page	díal Ath IN IN LabID.	
Relinquished By: Tony Si No. Company: May Fisher Alargi Jue Z/23/iS II iS Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt Samples held beyond 60 days subject to storage fee(s)	Received By Company	N n	E.	$\mathbb{N}$	Rece J	quished pany: pany:			2 2 2 2	Time たらく Time	·
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## APPENDIX E DATA VALIDATION MEMORANDUM



### DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

## PROJECT NO. 0546.02.03 | MARCH 4, 2015 | 32ND STREET PROPERTY | GEORGE SCHMID AND SONS, INC.

This report reviews the analytical results for groundwater samples collected by the Maul Foster & Alongi, Inc. project team at the 32nd Street property on behalf of George Schmid & Sons, Inc. The samples were collected in February 2015.

Specialty Analytical, Inc. (SA) performed the analyses. SA report numbers 1502168rev1, 1502183, 1502185rev2, and 1502199 were reviewed. The analyses performed and samples analyzed are listed below. Some analyses may not have been performed on all samples.

Analysis	Reference
Diesel, Hydraulic Oil, and Lube Oil	NWTPH-Dx
Gasoline	NWTPH-Gx
PAHs	USEPA 8270D
VOCs	USEPA 8260B

NWTPH = Northwest Total Petroleum Hydrocarbons.

PAH = polycyclic aromatic hydrocarbon.

USEPA = U.S. Environmental Protection Agency.

VOC = volatile organic compound.

	Samples	s Analyzed	
Report 1502168rev1	Report 1502183	Report 1502185rev2	Report 1502199
TP01-E1-13	TP02-N1-4.0	TP04-W2-11.0	TP01-S2-10.0
TP01-S1-13.5	TP02-B1-5	TP04-E1-9.5	TP01-B2-17.0
TP01-N1-12	TP02-E1-4.0	TP04-S1-10.5	-
TP01-W1-12.5	-	TP04-N1-10.0	-
TP01-B1-15	-	TP04-B1-15.0	-
TP02-W1-4.5	-	TP03-E1-1.0	-
TP02-S1-4.0	-	TP03-N1-1.0	-
-	-	TP03-B1-1.5	-
-	-	TP03-W1-1.0	-
-	-	TP03-S1-1.0	-

#### DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2014) and appropriate laboratory and method-specific guidelines (SA, 2014; USEPA, 1986).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the USEPA procedures (i.e., NWTPH-Dx analyses).

In report 1502168rev1, the NWTPH-Dx diesel results for samples TP01-W1-12.5 and TP01-B1-15 were flagged by the laboratory as biased high because of the amount of lube-oil-range compounds in the samples. The diesel results have been qualified by the reviewer with "J+" as estimated and biased high.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
1502168rev1	TP01-W1-12.5	Diesel	82.2	82.2 J+
1502168rev1	TP01-B1-15	Diesel	132	132 J+

mg/kg = milligrams per kilogram.

In report 1502185rev2, an NWTPH-Gx gasoline and several NWTPH-Dx diesel results were flagged by the laboratory because of nonstandard chromatographic patterns. In the table below, the reviewer has qualified the results as estimated.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
1502185rev2	TP04-N1-1.0	Gasoline	23.6	23.6 J
1502185rev2	TP03-E1-1.0	Diesel	67.8	67.8 J
1502185rev2	TP03-N1-1.0	Diesel	57.8	57.8 J
1502185rev2	TP03-B1-1.5	Diesel	40.8	40.8 J
1502185rev2	TP03-W1-1.0	Diesel	117	117 J
1502185rev2	TP03-S1-1.0	Diesel	43.5	43.5 J

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

#### HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

#### Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

#### Preservation and Sample Storage

In report 1502168rev1, samples were received by SA at ambient temperature approximately two hours after the final sample was collected. All samples were extracted for semivolatile compounds (NWTPH-Dx and USEPA Method 8270 PAHs) one day after collection; thus, data quality was not affected. No results were qualified by the reviewer.

The remaining samples were preserved and stored appropriately.

#### BLANKS

#### Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. All laboratory method blanks were non-detect.

#### Continuing Calibration Blanks

Continuing calibration blanks (CCBs) were provided for some analyses. All CCBs were non-detect.

#### Trip Blanks

Trip blanks were not submitted with any of the sample delivery groups. At least one sample was non-detect for all USEPA Method 8260B VOCs; thus, qualification was not required.

#### Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

#### SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples.

In report 1502185rev2, USEPA Method 8270D surrogate 2-fluorobiphenyl exceeded the upper percent recovery limit. In report 1502199, the USEPA Method 8270D surrogate p-terphenyl-d14 also exceeded the upper percent recovery limit. The exceedances were minor and remaining surrogates had acceptable percent recovery; thus, no results were qualified.

All remaining surrogate recoveries were within acceptance limits.

#### MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. When MS/MSD percent recoveries and relative percent differences (RPDs) were outside acceptance limits because of high concentrations of analyte in the sample, and the MS/MSD exceedances were flagged by the laboratory, no qualifications were made by the reviewer. All remaining MS/MSD results were within acceptance limits for percent recovery and RPDs.

#### LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision.

In report 1502168rev1, the NWTPH-Dx laboratory duplicate prepared with sample TP01-W1-12.5 exceeded RPD acceptance limits for diesel and lube oil. A second laboratory duplicate prepared with a sample from an unrelated project also exceeded RPD limits for diesel. Remaining batch quality assurance met acceptance criteria. The NWTPH-Dx lube oil result for the sample used to prepare the laboratory duplicate was qualified by the reviewer with "J" as estimated. The result for diesel is qualified in the data qualifications section above.

Report	Sample	Component	Original Result (mg/kg)	Qualified Result (mg/kg)
1502168rev1	TP01-W-12.5	Lube Oil	520	520 J

All remaining laboratory duplicates met RPD acceptance criteria.

#### LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. All LCS/LCSD analyte results were within acceptance limits for percent recovery and RPD.

#### FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Field duplicates were not submitted for analysis.

#### CONTINUING CALIBRATION VERIFICATION RESULTS

Continuing calibration verification (CCV) results are used to demonstrate instrument precision and accuracy through the end of the sample batch. All CCVs were within acceptance limits for percent recovery.

#### REPORTING LIMITS

In report 1502199, reporting limits were raised for NWTPH-Dx diesel and lube oil because of carry-over from another hydrocarbon type.

SA used routine reporting limits for remaining results.

#### DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

SA. 2014. Quality assurance manual. Specialty Analytical, Inc., Clackamas, Oregon.

- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2014. USEPA contract laboratory program, national functional guidelines for Superfund organic methods data review. EPA 540/R-014/002. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. August.

## APPENDIX F WASTE DISPOSAL RECEIPTS





Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, DR, 97123 Ph: (503)-640-9427 Original Ticket# 1368612

515,99 TON

Custower Name MCDONALDEXC McDonald Excavati Carrier RESLEFF Ticket Date 02/18/2015 Payment Type Credit Account Volume Vehicle# 95 Container Driver josh Manual Ticket# Checke Hauling Ticket# Eilling # 0002573 Route Gen EPA ID N/A State Waste Code Manifest na Grid Destination 15008 117563OR (DIRT WITH GRAVEL) 1.00 Profile Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

	Time	Scale	Operator	Inbound	Gross	日午四份四	10
Tm	02/18/2015 09:	19:27 Inhound 2	irichards		Tare	38500	1.12
Dut	02/18/2015 09:	32:02 Outhound	idb		Net	45500	16
CTU V	Walter F. de Seil / Jan Seil An Seil (1999) 18 1	Sad has a far far the far	J		Tons	22.	75

Comments

Consumer Comments? We want to know. Please call.

Product		LD%	0¢ y	UDM	Rate	Тах	Aaount	Origin	
1 Daily 2 17.5%	Cover-PCS-To FEA-17.5% FE	100 + 100	22.75	Toxie %			\$511.88 \$89.58	CLARK	1

in the

Total Tax Total Ticket \$601.46

3

Driver's Signature

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	Hillsboro Landfill, 3205 SE Minter Brid Hillsboro, OR, 9712	, Inc dge	Original Ticket# 1	368673
WASTE MAPAGEMENT	Ph: (503)-640-9427			1
Customer Name Ticket Date Payment Type Manual Ticket Hauling Ticke Route State Waste C	MCDONALDEXC McDonald Excava 02/18/2015 Credit Account * t# ode	ti Carrier McDe Vehicle# 854 Container Driver Mike Check# Billing # 0002573 Gen EPA ID N/A	Volume	``\~
Manifest Destination PO Profile Generator In 02/18/20 Dut 02/18/20	na 15008 117563DR (DIRT WITH GRAVEL) OR-GEORGE SCHMIDT AND SONS Scale 15 14:51:54 Inbound_1 15 14:51:54	Grid INC GEORGE SCUMIDT & SONS, Operator Inbound sdm sdm	INC Gross Tare Net Tons	101280 15 41260 15 60020 15 30.01

Comments

Consumer Comments? We want to know. Please call.

Product		LD%	ASTE   Oty	UOM	Rate	Tax	Amount	Origin
1 Daily 2 17.5%	Cover-PCS-To FEA-17.5% FE	100	30.01	Tons %	22.50 17.50		\$675.23 \$118.17	CLARK CLARK

Total Tax Total Ticket \$793.40

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Driver's Signature

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Hillsbord 3205 SE H Hillsbord Ph: (503	) Landfill, Minter Bridg ), DR, 97123 -640-9427	Inç	Original Ticket# }	1368672
Customer Name MCDONALDEXC McDon Ticket Date 02/18/2015 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest NA Destination PO 15008 Profile 1175630R (DIRT WI Generator OR-GEORGE SCHMID]	ald Excavati TH GRAVEL) AND SONS IN	Carrier McDe Vehicle# 853 Container Driver Rick *Check# Billing # 00025 Gen EPA ID N/A Grid & GEORGE SCHMIDT &	Volume 73 SONS, INC	
Time Sca In 02/18/2015 14:27:54 Inbo Out 02/18/2015 14:27:54 Comments Consumer Comments?	le found_1 so	Jperator I im im Know. Please call	nbound Gross Tare Net Tons	92140 1b 38020 1b 54120 1b 27.06
Product LD%	Qty UO	M Rate	Cax Amount	CLARK
1 Daily Cover-PCS-To 100 2 17.5% FEA-17.5% FE 100	27.06 Fo %	ns 22.50 17.50	\$106.55	CLARK

PDRONT

Total Tax Total Ticket

\$715.4Ø

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Driver's Signature

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Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427	Original Ticket# 1368606
Customer Name MCDONALDEXC McDonald Excavati Cårrie Ticket Date 02/18/2015 Vehicl Payment Type Credit Account Contai Manual Ticket# Driver Hauling Ticket# Check# Route Billin State Waste Code Gen EF Manifest na Destination Grid PO 15008 Profile 1175630R (DIRT WITH GRAVEL) Generator OR-GEORGE SCHMIDT AND SONS INC GEORG	r McDe e# 853 Volume ner rick g # 0002573 A ID N/A 
Time Scale Operator In 02/18/2015 09:11:18 Inbound_1 jdb Out 02/18/2015 09:25:46 Outbound jdb Comments Consumer Comments? We want to know.	Inbound Gross 102340 1b Tare 38040 1b Net 64300 1b Tons 32.15
Product LD% Qty UOM F	late Tax Amount Origin
1 Daily Cover-PCS-To 100 32.15 Tons 2 17.5% FEA-17.5% FE 100 %	22.50 \$723.38 CLARK 17.50 \$126.59 CLARK
ar in the second se	Total Tax Total Ticket \$849.97
Driver's Signature	

	Hillsbor 3205 SE   Hillsbor Ph: (503	o Landfil Minter Br o, OR, 97 )-640-942	I, Inc 1898 123 - 7			, Original Ticket# 1	368641
Customer Name MCDONALDE Ticket Date 02/18/201 Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest NA Destination PO 15008 Profile 1175630R Generator OR-GEORG	EXC McDon 15 2count (DIRT W) E SCHMID	ald Excav ITH GRAVE T AND SON	ati Carr Veh: Con Dri Che Bil Gri Gri S INC GE	rier McDe icle# 853 tainer ver Rick ck# ling # 000% EPA ID N/A d	2573 & SONS,	Volume	
Time In 02/18/2015 11:48: Out 02/18/2015 11:48: Comments Consumer (	Sci 54 Inb 54 Comments?	ale ound_1 We want	Opera sdm sdm to know	tor V. Please ca	Inbound	Gross Tare Net Tons	108620 15 38020 15 70600 15 35.30
Product	· LD%	Qty	UOM	Rate	Тах	Amount	Origin
1 Daily Cover-PCS- 2 17.5% FEA-17.5%	To 100 FE 100	35.30	Tons %	22.50 17.50		\$794.25 \$138.99	CLARK CLARK
		0			( T	Total Tax otal Ticket	\$933.24
Driver's Signature					1.		

WA	MANAGEMENT	Hillsboro Landfill, 3205 SE Minter Bri Hillsboro, OR, 9713 Ph: (503)-640-9427	, Inc dge 23	**	Original Ticket#	1368620
	Customer Name MCDONALDE Ticket Date 02/18/201 Payment Type Credit Ad Manual Ticket#	IXC McDonald Excava 5 9count	ti Carrier RES Vehiçle# 109 Container Driver tor Check#	LEFF Y	Volume	
	Route State Waste Code Manifest na Destination		Billing # 0 Gen EPA ID N Grid	002573 I/A		
	PO 15008 Profile 1175630R Generator OR-GEORG	(DIRT WITH GRAVEL) E SCHMIDT AND SONS	INC GEORGE SCHMI	DT & SONS, I	NC	
	Time In 02/18/2015 09:43: Out 02/18/2015 10:00: Comments Consumer C	Scale 56 Inbound_1 - 14 Outbound omments? We want t	Operator jdb jdb o kñow. Please	Inbound	Gross Tare Net Tons	101220 lb 41080 lb 60140 lb 30.07
	Product	LD% Qty U	OM Rate	Тах	Amount	Origin
	1 Daily Cover-PCS-T Babar 17.5% FEA-17.5% F	o 100 30.07 T	on 22.50 17.50	0 3 7 - 1	\$676.58 \$118.40 人 i	CLARK CLARK
	Driver's Signature		TAN	Tot Tota	al Tax 1 Ticket	\$794.98
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WAS	Hillsboro Landfill, Ir 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427		Original Ticket# 1	368647
	Customer Name MCDONALDEXC McDonald Excavati Ticket Date 02/18/2015 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest NA Destination	Carrier RESLEFF Vehicle# 94 Container Driver mATT Check# Billing # 0002573 Gen EPA ID N/A Grid	Volume	14
	Profile 117563DR (DIRT WITH GRAVEL)	GEORGE SCHMIDT & SONS,	INC	
	Generator OR-GEORGE Schwitch ing Cale Op   Time f / Scale Op   In 02/18/2015 12:09:23 Inbound_1 sdi   Out 02/18/2015 12:09:23 sdi   Comments i i	Derator Inbound	Gross Tare Net Tons	87300 15 39100 15 48200 15 24.10
	Consumer Comments? We want to	knew. Please Call.		
	Product LD% Qty LOM	Rate Tax'	Amount	Origin
	1 Daily Cover-PCS-To 100 24.10 Ton 2 17.5% FEA-17.5% FE 100	s 22.50 17.50	\$542.25 \$94.89	CLARK
	Driver's Signature	T	Total Tax stal Ticket	\$637.14
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WASTE VANAGEMENT	Hillsboro 3205 SE M Hillsboro Ph: (503)	Landfill, Inc inter Bridge , OR, 97123 -640-9427	Orig Tick	inal et# 1368615
Customer Name Ticket Date Payment Type Manual Ticket Hauling Ticke Route State Waste C Manifest Destination PO Profile Generator	MCDONALDEXC McDona 02/18/2015 Credit Account # t# ode na 15008 1175630R (DIRT WIT OR-GEORGE SCHMIDT	ld Excavati Carrier Vehigle# Container Driver Check# Billing # Gen EPA I Grid H GRAVEL) AND SONS INC GEORGE S	RESLEFF 94 Volu 0002573 D N/A ) CHMIDT & SONS, INC	um e
Time In 02/18/20 Out 02/18/20 Comments	Scal 15 09:25:27 Inbou 15 09:39:54 Outbo onsumer Comments?, LD%	e Opetator ind_1 jdb ound jdb Weiwant to know. Ple Oty UOM Rate	Inbound Gross Tare Net Tons ase call. Tax Amount	84280 16 39100 15 45180 15 22.59 Origin
1 Daily Co 2 17.5% FE	ver-PCS-To 100 A-17.5% FE 100	22.59 Tans 2	2.50 \$508 7.50 \$88	28 CLARK 95 CLARK
Driver's Sign	ature High	Athy	Total Tax Total Ticke	t \$597.23
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Hillsboro Landfill, 3205 SE Mintes Bris	Inc Ige	Ticket# 1	368605
Hillsboro, OR, 9712 STE MANAGEMENT Ph: (503)-640-9427	13	17 50 . 	
Customer Name MCDONALDEXC McDonald Excavat Ticket Date 02/18/2015 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563OR (DIRT WITH GRAVEL) Generator OR-GEORGE SCHMIDT AND SONS	i Carrier McDe Vehicle# 6035 Container Driver andy Check# Billing # 0002573 Gen EPA ID N/A Grid INC GEORGE SCHMIDT & SONS, I	Volume	
Time Scale In 02/18/2015 08:57:12 Inbound 2 Out 02/18/2015 09:11:59 Outbound	Öperator Inbound jrichards jdb	Gross Tare Net Tons	93240 15 40720 15 52520 15 26.26
Consumer Comments? We want t	o know. Please call.	Amount	Origin
1 Daily Cover-PCS-To 100 26.25 2 17.5% FEA-17.5% FE 100	Tons /22.50/9-15	\$590.85 \$103.40	CLARK CLARK
N	Ta	tal Tax al Ticket	\$694,25
Driver's Signature			

Original Hillsboro Landfill, Inc. Ticket# 1368669 3205 SE Minter Bridge Hillsboro, OR, 97123 VASTE MANAGEMENT Ph: (503)-640-9427 Customer Name MCDONALDEXC McDonald Excavati Carrier McDe Volume Ticket Date 02/18/2015 Vehicle# 6035 Payment Type Credit Account Container Driver andy Manual Ticket# Check# Hauling Ticket# Billing # 0002573 Route Gen EPA ID N/A State Waste Code Manifest na 2-19-14 Grid Destination 6:300 MPIEdes PO 852 1175630R (DIRT WITH GRAVEL) 363 7 2 CHMIDT & SONS, INC Profile Generator Operator 17 Inbound Gross jrichands - 185 - 1 tor Tare Time Scale 96740 1b 40720 16 02/18/2015/14:16:27 Inbound 2 In Prive to SNet Mid V 456020 16 Out 0271872016 14:16:27 jrichards Tons 28.01 Comments\_ Consumer Comments? We want to know. \Please call. 1 10547 The Carl and the 303724 Qty UOM Rate Tax Amount Origin Product CLARK 1 Daily Cover-PCS-Taligo 28/01-Tons 22.50 \$630.23 17.50 \$110.29 17.5% FEA-17.5% FE 100 CLARK 2 % Total Tax Total Ticket \$740.52 and rel Driver's Signature  $(\mathbf{a})$ 403WM

Hill 3205 Hill Ph:	sboro Landfi Lanc SE Minter Bridge sboro, OR, 97123 (503)-640-9427.	Original Ticket# 1368639
Customer Name MCDONALDEXC M Ticket Date 02/18/2015 Payment Type Credit Accour Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 0.6 mp.c15008	icDonald Excavati Carrier McDe Vehicle# 6035 Container Driver andy Check# Billing # 000257 Gen EPA ID N/A 2-19-10 Grid	Volume 3
Profile 117563OR (01) Separator OR-GEORGE SC	HMIDT AND SONS INC GEORGE SCHMIDT &	SONS, INC
Time In 02/16/2015 11:32:35 Out 02/18/2015 11:32:36 Comments	Scale Operator In Inbound_1 sdm 2 - 1/1 - 1 sdmr. 2 - 1/1 - 1 * Manual Weight	bound Gross 108580 lb* Tare 40720 lb* Net 67860 lb Tons 33.93
Consumer, Comme	nts? We want to know Please call.	0
· · · · · · · · · · · · · · · · · · ·	WASTE MANADEMENT	oraunt Opinio
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Driver's Signature		G

		Hillsboro Landfill 3205 SE Minter Bri Hillsboro, DR, 971 Ph: (503)-640-9427	, Inc dgg 239	Origina. Ticket#	1 1368618
	Customer Name MCDONALDE Ticket Date 02/18/201 Payment Type Credit Ac Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563OR Generator OR-GEORGE	XC McDonald Excava 5 count (DIRT WITH GRAVEL) SCHMIDT AND SONS Scale	ti Carrier WEST COAST Vehicle# 007 Container Driver joe Check# Billing # 0002573 Gen EPA ID N/A Grid INC GEORGE SCHMIDT & SO	DUMP TRUCKS Volume NS, INC	101700 15
	In 02/18/2015 09:38:0 Out 02/18/2015 09:49:5 Comments Consumer Co	1 Inbound 2 7 Outbound mments? We want t	jrichards jdb o know. Please call.	Tare Net Tons	37700 15 64000 15 32.00
	1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	100 32.00 T 100 %	ons 22.50 17.50	\$720.00 \$126.00	CLARK CLARK
403WM	Driver's Signature			Total Tax Total Ticket	\$846.00 >}

WASTE MANAGEMENT	Hillsboro Landf 3205 SE Minter Hillsboro, OR, Ph: (503)-640-5	Fill, Inc Pridge 97123 9427		Original Ticket#	1368645
Customer Name MCDONALD Ticket Date 02/18/20 Payment Type Credit A Manual Ticket# Hauling Ticket# Route State Waste Code Manifest NA Destination PO 15008 Profile 1175630R Generator OR-GEORG	EXC McDonald Exe 15 Iccount : (DIRT WITH GRAN E SCHMIDT AND SC Scale	cavati Carrier Vehicle# Container Driver Check# Billing # Gen EPA I Grid VEL) DNS_INC GEORGE S Operator	WEST COAST D 007 Joe 0002573 D N/A CHMIDT & SONS, Inbound	UMP TRUCKS Volume INC Gross	94280 15
In 02/18/2015 12:03: Out 02/18/2015 12:03: Comments Comments Consumer C	18 Inbound_1 18 Comments? We war	sda sda t to know. Ple	ase call.	Tare Net Tons	37700 15 56580 15 28.29
Product	LD% DA-	UDM Raty	Tax Tax	Amount	Origin
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(X		10.91	T To	otal Tax tal Ticket	\$747.92
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		ł	lillsbor 205 SE lillsbor h: (503	o Landfi Minter B o, OR, 9 )-640-94	ll, In Fridge 7123 27			Origin. Ticket	al # 1368642
Cust Tick Paym Manu Haul Rout Stat Dest PO Prof Gene	omer Name et Date ent Type al Ticket ing Ticke e e Waste C fest ination ile rator	MCDONALDE) 02/18/2015 Credit Acc # t# Code NA 15008 1175630R OR-GEORGE	C McDon Sount DIRT WI SCHMIDT	ald Exca TH GRAVE AND SON	vati C V D C B G G L) S INC	arrier McD ehicle# 854 ontainer river Mik heck# illing # Ø en EPA ID N rid SEORGE SCHMI	e 202573 /A DT & SONS,	Volume	
in Out Comm	Time 02/18/20 02/18/20 ents C	015 11:51:20 015 11:51:20 onsumer Com	Sca Inbo	le und_i We want	Ope sdm som. to kn	ow. Please o	Inbound	Gross Tare Net ( Tons	- 100300 lb 41260 lb 59040 lb 29.52
Prod	uct		L.D%	Qty	UOM	Rate	Тах	Amount	Origin
1 2	Daily Co 17.5% FE	ver-PCS-To A-17.3% FE	120 100	29.52	Tons %	22.50 17.50		\$664.20 \$116.24	CLARK CLARK

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Total Tax Total Ticket \$780.44

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Driver's Signature



	Hillsboro Landf 3205 SE Minter 1 Hillsboro, OR, 9 Ph: (503)-640-9	ill, Inc Briðge 97123 427	-	Original Ticket# 13 734.02.Tom	68801
Customer Name MCDONALI	EXC McDonald Exc	avati Carrier	WEST COAST	DUMP TRUCKS	
Ticket Date 02/19/20	115	Vehicles	¥ 14	Volume	
. Payment Type Credit A	Account	Contain	34		
Manual Ticket#	· · · · · · · · · · · · · · · · · · ·	Driver	Larry		
Hauling icket#		Check#	۲ ۲۰ میں میں میں میں میں میں میں میں م	and a second	
Route Chala Mada Cada		a a Bulling	* 0002573		
Marifith		. 바람지 논문위	10 N/H .		
Destination		State Daniel			No.
00 15000		A Drid			A.
Drofile 11756306	OTET WITH GROU	FLA		×	
Generator OR-GEORG	F SCHMIDT AND SO	NS INC BEDRGE	SCHMIDT & SONS	L. TMC	
		the plan meaning			
Ťime	Scale	Operator	Inboun	d Gross	94960 1b
In 02/19/2015 14:40:	24 Inbound_1	jrichards		Tare	42220 16
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		and the second s			

Product &	山口沙	Qty	NOU	Rate	Тах	Amount	Origin
1 Daily.Cover-PCS-To 2 17.5% PEA-17.5% FE	100 100	26.37	Tons %	22.50 17.50		\$593.33 ~\$103.83	CLARK CLARK
			Ĵ.				
Ap.						de.	~
			14 1				~
			, - , -			Total Tax Total Ticket	\$697.16
Driver's Signature	1 ch					( ~ · · · ·	4 4
		¥.	.77	1		L.	8

WAS	Hi11 3205 Hi11 Ph:	sboro Lándfil) SE Minter Bri sboro, OR, 971 (503)-640-9423	l, Inc inge iag	ROTE	Origin Ticket	al # 1368767
	Customer Name MCDONALDEXC M Ticket Date 02/19/2015 Payment Type Credit Accoun Manual Ticket#	cDonald Excave t	ati Carrier Vehicle# Container Driver	RESLEFF 94 matt	Volume	70%
	Hauling Ticket# Route State Waste Code Manifest na		Check# Billing # Gen EPA I	0002573 D N/A		
	Destination PQ 15008 Profile' 1175630R (DIR Generator OR-GEORGE SCH	T WITH GRAVEL) MIDT AND SONS	Grid INC GEORGE S	CHMIDT & SONS,	INC	
	Time In 02/19/2015 12:40:10 Out 02/19/2015 12:40:10	Scale Inbound_1	Operator jdb jdb	Inbound	Gross Tare Net	68740 15 39100 15 29640 15
	Comments ,				Tons	14.82

Consumer Comments? We want to know. Please call.

Produ	ict	4	LD%	Qty	UOM 1	Rate	Тах	Amount	Origin
1 2	Daily 17.5%	Cover-PCS-To FEA-17.5% FE	100 100	14.82	Tons %	22.50 17.50	· · · · · · · · · · · · · · · · · · ·	\$333.45 \$58.35	CLARK CLARK

ŝ.

Total Tax Total Ticket \$391.80

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Driver's Signature

	Hillsborc Landfill, 3205 SE Minter Brîôg Hillsboro, OR, 97123 Ph: (503)-640-9427	Inc.	Original Ticket# 130	58734
Customer Name MCDONALD Ticket Date 02/19/20 Payment Type Credit A	EXC McDonald Excavati 15 ccount	Carrier RESLEFF Vehicle# 94 Container	Volume	
Hauling Ticket# Route State Waste Code	y 14 -	Check# Billing # 0002573 Gen EPA ID N/A		
Destination PO 15008 Profile 1175630R Separator OR-GEORG	(DIRT WITH GRAVEL)	Grid		
Time In 02/19/2015 09:42: Dut 02/19/2015 09:42:	Scale 39 Inbound_1 sr 39 sr	perator Inboun eece eece	d Gross Tare Net	89200 15 39100 15 50100 15

Comments

Consumer Comments? We want to know. Please call.

Product		LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Daily C 2 17.5% F	Cover-PCS-To FEA-17.5% FE	100 100	25,05	Tons %	22.50 7 17.50		\$563.63 \$98.64	CLARK CLARK

Total Tax Total Ticket \$662.27

Tons

3

25.05

Driver's Signature



Hillsboro Landfill, Ind 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1368789

Customer Name	MCDONALDEX	C McDonald	Excavati	Carrier	McDe					
Ticket Date	02/19/2015			Vehicle	854		Volu	ne		
Payment Type	Credit Acc	ount		Containe	er:					
Manual Ticket#				Driver	Mike					
Hauling Ticket	: 特			Check#						
Route				Billing	# 00025	73				
State Waste Co	de			Gen EPA	ID N/A					
Manifest	na				×					
Destination				Grid						
PO	15008		14	-the						
Profile	1175630R (	DIRT WITH (	SRAVEL)			Solv,				
Generator :	OR-GEORGE	SCHMIDT AN	D SONS IN	C- GEORGE	SCHMIDT &	SONS,	INC			
Time		Scale	O	perator	1	nbound	Gross		108960	16

In 02/19/2015 14:18:59	Inbound 2	jdb	Tare	41260 16
Uut 02/19/2015 14:18:59		jdb 🦟	Net	67700 16
Comments			Tons	33.85

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Тах	Amount	Origin
1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	100 100	33.85	Ton	20.50 17.50	1997 - J La Zanta and and and a start of the start of	\$761,62 \$133,28	CLARK CLARK

na

Total Tax Total Ticket

\$894.90

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Driver's Signature

	illsboro Landfiff, 205 SE Minter Bric illsboro, OR, 9712	*Inc ige 23	Original Ticket# 1	.368723
PI	h: (503)-640-9427	2		
Customer Name MCDUNALDEXI	C McDonald Excavat	a Carrier McDe		
TICKET Date 02/19/2010		Venicle# 804	Volume	
Payment Type Gredit HCC	punt	Container		
Manual licket#		Driver Mike		
Hauling Ticket#		Check#		
Route		Billing # 0002573		
State Waste Code		Gen EPA ID N/A		
Manifest na				
Destination		Grid		
PD 15009		- Martin		
Deafile 11756700 /1	ATPT WITH SPOUL			
Caravatava OD CEODOC (	STAL WILD CAMVEL			
denerator ok-debroe	SCHWIDT HND SUNS !	INC GEURGE SCHMIDT & SUN	D <sub>3</sub> INC	
Time	Scale	Operator Inbou	nd Gross	103640 15
In 02/19/2015 09:09:38	Inhound 2	ini chande	Tasa	A1960 16
Dut 02/19/2015 09:00:20	A THE WATER IS A	ji attiitti taa	i en e	71COV 1U
	transmitter and the second sec	In trustices	NGC	62380 10

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Тах	Amount	Origin
1 Daily Cover-PCS-T/o, 2 17.5% FEA-17.5% FE	100 · · · ·	31.19	Topan %	22.50 17.50	and the second	\$701,78 \$122.81	CLARK C⊾ARK

Total Tax Total Ticket

Net Tons

\$824.59

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31.19

Driver's Signature

	02-2		
	Hillsboro Landfil 3205 SE Minter Br Hillsboro, OR, 97 Ph: (503)-640-942	l, Inc ridge 7123 27	Original Ticket# 1368756
Customar Name M Ticket Date ( Payment Type ( Manual Ticket# Hauling Ticket Route State Waste Co Manifest Destination PO Profile Generator	MCDONALDEXC McDonald Excav 02/19/2015 Credit Account # de na 15008 1175630R (DIRT WITH GRAVEN OR-GEORGE SCHMIDT AND SON	vati Čarrier McDe Vehicle# 854 Container Driver Mike Check# Billing # 0002573 *Sen EPA ID N/A Grid S INC GEORGE SCHMIDT & SONS,	Volume
Time In 02/19/201 Out 02/19/201	Scale 5 11:46:48 Inbound_1 5 11:46:48	Operator Inbound jdb jdb	Gross     107800     1b       Tare     41260     1b       Net     66540     1b       Tons     33.27

Comments

Consumer Comments? We want to know. Please call.

Product (	LD%	Qt y	UOM	Rate	Tax	Awount	Origin
1 Daily Coven-PCS-To 2 17.5% FEA-17.5% FE	120 100 7	,33.27	Tone -	22.50 17.50	a transfer	\$748.58 \$131.00	CLARK

Me

Total Tax Total Ticket \$879.58

Driver's Signature

	Hillsboro Landfi 3205 SE Minter B Hillsboro, OR, 97 Ph: (503)-640-946	11, Inc ^idgë 7123 27		Origina Ticket‡	al ≸ 1368717
Customer Name MCDDNALD Ticket Date 02/19/20 Payment Type Credit A Manual Ticket# Hauling Ticket# Route Stâte Waste Code Manifest na Destination	EXC McDonald Exca 15 ccount	vati Carrier M Vehicle# G Container Driver a Check# Billing # Gen EPA ID Grid	cDe 035 ndy 0002573 N/A	Volume	
Po 13008 Profile 1175630R Generator OR-GEORG Time In 02/19/2015 08:54: Out 02/19/2015 08:54: Comments	(DIRT WITH GRAVED E SCHMIDT AND SON Scale 52 Inbound_1 52	S INC GEORGE SCH Operator sreece sreece	MIDT & SONS, Inbound	INC Gross Tare Net Tons	100460 15 40720 15 59740 15 29.87

Consumer Comments? We want to know. Please call.

Product	el l'an	LD74	) Dty	· uom	Rate (	Тах	Amount	Origin
i Dail 2 17,5	y Cover-PCS-To % FEA-17.5% FE	100 100	29.87	Tons %	22.50 17.50		\$672.08 \$117.61	CLARK

on

Total Tax Total Ticket \$789.69

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Driver's Signature

	Hillsboro Landfé 3205 SE Minter B Hillsboro, OR, 9 Ph: (503)-640-94	11, Mnc ridge 7123 27			Origina Ticket#	1368752
Customer Name MCDONALDE Ticket Date 02/19/201 Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R Generator OR-GEORGE	IXC McDonald Exca 5 count (DIRT WITH GRAVE 5 SCHMIDT AND SON	vati Carrier Vehicle Contain Driver Check# Billing Gen EPA Grid	McDe 6035 er andy # 000257 ID N/A SCHMIDT &	3 SONS, INC	Volume	
Time In 02/19/2015 11:29:1 Out 02/19/2015 11:29:1 Comments Consumer Co	Scale 1 Inbound_1 1 mments? We want	Operator jdb jdb to know. P	In lease call.	bound Gi Ta Ni Ti	ross are et ens	103500 1b 40720 1b 62780 1b 31.39
Product 1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	LD% * 0ty *	UOM Rat Tons %	te. Ta 22.50 17.50	x / / Am	\$706.28 \$123.60	Origin CLARK CLARK
			/			
		N		Total Total	Tax Ficket	\$829.88

Driver's Signature



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WASTE MANAGEMENT	Hillsboro Landfill 3205 SE Minter Bridg Hillsboro, OR, 97123 Ph: (503)-640-9427	Inc	Origina. Ticket#	1368786
Customer Name MCDONALDE Ticket Date 02/19/201 Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563DR Generator OR-GEORG	EXC McDonald Excavati 15 ccount (DIRT WITH GRAVEL) E SCHMIDT AND SONS IM	Carrier McDe Vehicle# 6035 Container Driver andy Check# Billing # 0002573 Gen EPA ID N/A Grid	Volume	
Time In 02/19/2015 14:14:0 Out 02/19/2015 14:14:0 Comments	Scale O 01 Inbound 2 jd 01 jd	perator Inbou b	ind Gross Tare Net Tons	94460 1b 40720 1b 53740 1b 26.87
Consumer Co Product	omments? We want to	know, Please call.	Amount	Origin
1 Daily Cover-PCS-T 2 17 5% FF0-17 5% F	o 100 26.87 Ton	s 22.50	\$604.58 \$105.80	CLARK



Total Tax Total Ticket \$710.38

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Driver's Signature

WAST	TE MANAGEMENT		Hil 320 Hil Ph:	lsboro Landfi 5 SE Minter B 1sboro, OR, 97 (503)-640-94	11, 1 nidge 7123 27	Incia.	7 20			Origiı Ticket	nal t# 136	8758
	Customer Name Ficket Date Payment Type Manual Ticket Hauling Ticket Route State Waste C Manifest	MCDONAL 02/19/2 Credit # et# Code na	DEXC   2015 Accou	McDonald Excan	/ati	Carri Vehic Conta Driven Check Billi Gen El	er CSI le# 108 iner r rog # ng # 0 PA ID N	jer 1002573 1/A		Volum	2	
- F F 6	PO Profile Generator -	15008 1175630 OR-GEOI	)R (DI RGE SC	RT WITH GRAVEN HMIDT AND SON	_) 5 IN(	C GEOR	GE SCHMI	IDT & SONS	, INC			the second s
	Time (n 02/19/20 Jut 02/19/20 Comments '	015 11:54 015 11:54	\$:44 \$:44	Scale Inbound 2	Op sri sri * 1	peraton sece sece Manual	Weight	Inboun	d Gr Ta Ne To	oss re t ns	B 3	8540 lb* 8480 lb* 50060 lb 25.03
	C	Consumer	Comme	nts? We want	tol	know.	Please	call				

Produ	ct	L	D%	≓Qty	UOM	Rate	Tax	Amount	Origin
1 2	Daily Cover- 17.5% FEA-17	PCS-To 10 .5% FE 10	0	25.03	Tons %	22.50 17.50		\$563.18 \$98.56	CLARK CLARK

Total Tax Total Ticket \$661.74

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Driver's Signature

TE MANAGEMENT	Hil 3205 Hill Ph:	lsboro Landfil 5 SE Minter Bi lsboro, OR, 93 (503)-640-942	11, Inc hidge 0 - 5 a 7123 - 7 27		Original Ticket#	1368730
Customer Name I Ticket Date ( Payment Type ( Manual Ticket# Hauling Ticket# Route State Waste Coo Manifest	MCDONALDEXC   02/19/2015 Credit Accour # de	icDonald Excav	vati Carrier Veñicle# Container Driver Check# Billing # Gen EPA ID	CSI 108 roger 0002573 N/A	Volume	
Destination PO Prófile Generator (	15008 1175630R (DII DR-GEORGE SC)	RT WITH GRAVEL	Grid _) & INC GEORGE SC	HMIDT & SONS,	INC	
Time In 02/19/2015 Out 02/19/2015 Comments	5 09:23:19 5 09:38:15	Scale Inbound 2 Outbound	Operator jrichards sreece	Inbound	Gross Tare Net Tons	85940 11 38460 11 47480 11 23,74

Consumer Comments? We want to know. Please call.

Product		L.D%	_i∉ Gty	MOU	Rate	Tax	Amount	Origin
1 Dail 2 17.5	ly Cover-PCS-To 5% FEA-17.5% FE	100 100	23.74	Tons %⊻	22.50 17.50		\$534.15 \$93.48	CLARK CLARK

Signature Drive

Total Tax Total Ticket \$627.63

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the second

WAS		Hillsboro L 3205 SE Min Hillsbaro, Ph: (503)-6	andfill, 1 ter Bridgø OR, 97123 40-9427				Original Ticket∦ 1	368688
ĵ,	Customer Name MCDONALDE Ticket Date 02/19/201 Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R Generator 0R-GEORG	EXC McDonald 15 200unt ,(DIR% WITH E SCHMIDT AM	Excavati GRAVEL) ID SONS IN	Carrier Vehicle# Container Driver Check# Billing # Gen EPA I Grid	RESLEFF 109 tory 0002573 D N/A CHMIDT & S	ONS, INC	Volume ?	
	Time In 02/19/2015 06:23: Dut 02/19/2015 06:23: Comments	Scale 42 Inbound 42	0 1_1 sr sr	perator eece eece	Int	ound Gro Tar Net Tor	55 8 15	104180 lb 41080 lb 63100 lb 31.55
-	Consumer C	omments? We	want to	know. Ple	ase call.			
	Product	LD% G	y UOM	Rate	MIENIT Ta:	( Amoi	Int	Origin
	1 Daily Cover-PCS-T 2 17.5% FEA-17.5% F	o 100 - 3 E 100	31.55 Ton %	s 2 1	2.50 7.50	4	709.88	ELARK Elark
		7			i.			÷

Total Tax Total Ticket \$834.11

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Driver's Signature

Original Hillsboro Landfill, Inc Ticket# 1368736 3205 SE Minter Bridge 🦂 Hillsboro, DR, 97123 Ph: (503)-640-9427 WASTE MANAGEMENT 5 3 Customer Name MCDONALDEXC McDonald Excavati Carrier RESLEFF Volume Ticket Date 02/19/2015 Container Payment Type Credit Account Driver tory Manual Ticket# Check# Billing # 0002573 Hauling Ticket# Gen EPA ID N/A Route State Waste Code Manifest na Grid Destination 117563DR (DIRT WITH GRAVEL) po OR+GEORGE SCHMIDT AND SONS INGAGEORGE SCHMIDT & SONS, INC Profile Generator 100260 15 Gross Inbound Operator 41080 lb Scale Tare Time jrichards 59180 lb Net

In 02/19/2015 09:53:33 Inbound 2 jrichards Net 59180 lb Jrichards Tons 29.59

Comments

Consumer Comments? We want to know. Please call. .

					Tav	Amount	Origin
Oraduct	LD%	Qty	UOM	Rate	I GLA		
	100	29.59	Tons	22,50		\$665.78 \$116.51	CLARK
1 Daily Cover-PLS 10 2 17.5% FEA-17.5% FE	100		"/s	17.50			

Driver's Signature

Total Tax \$782.29 Total Ticket

		c. Anne	U	···			
	Hillsbor	o Landfi	ll, Inc			Origina	1
	3205 SE	Minter B	ridge			Ticket#	1366682
WAGT. MANAGEMENT	M111500r DH: (503	0, UK, 9 )-640-94	/123 97				
	P-11 # 1.5005	1 010 21	Len (				
Customer Name	MCDONALDEXC McDon	ald Exca	vati Carr	rier RESLE	EFF		
Ticket Date	02/19/2015		Vehi	icle# 95		Volume	
Payment Type	Credit Account		Cont	sainer			
Manual Ticket#			Driv	ver josh			
- Hauling Ticket	44 17		Chec	≥K带	يده ويه منع عنى وم		
Koute	al a		Bil.		02573		
Marifart	Qe j		ben	EPH LU N/1	H		
- Dectination	17d		Greit	4			
Desvinacion DO	15008			4			
Profile	1175630R (DIRT W)	TH GRAVE	L)				
Generator	OR-GEORGE SCHMIDT	AND SON	S INC GEO	ORGE SCHMID	T & SONS	, INC	
Time	- Spa	10	Operat	tor	Tobouto	d Grass	88300 lb
In 02/19/204	5 06:05:19 Inbo	und 1	sreece	7	the 2.3 And but with 2	Tare	38500 15
Out 02/19/201	5 06:05:19		sreece			Net	49800 lb
	and the second s					Tons	24.90
Comments	ale -						
				-V. A.			
h	Constant and	11	And America	1 minutes			
L'E	insumer comments?	We Want	to Know,	. Please C	all.		
No. 1							
Product	LD%	Qty	UOM	Rate	Тах	Amount	Origin
	n and the sets and sha black the side for a set and the set	14 men men etne fam tim men etne som				ana any any ana any ana amin'ny amin'n	and and any set of the
2 1 Daily Cov	200-PC5-10 100	24.30	lons	17 50		\$050.20 *00.0A	CLARK
C 17. JAN TEN	-17.0% FE 100		10	2100		\$ 2 Q = 10 m	Let., FIPAIN
	Same of the second s						
						Total Tax	A second second second
					T	otal Ticket	\$658,29
ά.	1 St.	and the second sec					
15 1	+ ON	QL IN					

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Driver's Signature V

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WASTE MANAGEMENT	Hillsboro Landfi'll 3205 SE Minter Bri Hillsboro, OR, 971 Ph: (503)-640-9427	l, Inc idge 123 7	Original Ticket# 1	368731
Customer Name MCDONALI Ticket Date 02/19/20 Payment Type Credit 6 Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 11756306 Generator OR-GEOR(	DEXC McDonald Excava 015 Account R (DIRT WITH GRAVEL) SE SCHMIDT AND SONS	ati Carrier RESLEFF Vehicle# 95 Container Driver josh Check# Billing # 0002573 Gen EPA ID N/A Grid INC GEORGE SCHMIDT & SONS,	Volume	
Time In 02/19/2015 09:27 Out 02/19/2015 09:27 Comments	Scale :41 Inbound 2 :41	Operator Inbound jrichards jrichards	Gross Tare Net Tons	81680 lb 38500 lb 43180 lb 21.59

Consumer Comments? We want to know. Please Call.

Product	LD%	Qty	UOM	Ra‡e	Tax	Amount	Origin	
1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	100 100	21.59	Tons %	22.50 17.50	an anter pres finn figer see	\$485.78 \$85.01	CLARK	

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Driver's Signature

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Total Tax Total Ticket \$570.79

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		Hillsbor 3205 SE Hillsbor Ph: (503	o Landfi Minter B o, OR, 9 )-640-94	11, Inc ridge 7123 27			Origina Ticket#	1 1368760
•	Customer Name MCDONALD Ticket Date 02/19/20 Payment Type Credit A Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563DR Generator OR~GEORG	EXC McDon 15 ccount (DIRT WI E SCHMIDT	ald Exca TH GRAVE AND SON	vati Carr Vehi Cont Driv Chec Bill Gen Grid L) S INC GEO	ier RESLI cle# 95 ainer er josh k# ing # 00 EPA ID N/ RGE SCHMID	EFF 02573 A T & SONS,	Volume	
	Time In 02/19/2015 11:57: Dut 02/19/2015 11:57: Comments `	Sca 46 Inbo 46 mm	le und 2 We want	Operat sreece sreece to know.	or Please c	Inbound	Gross Tare Net Tons	79280 1b 38500 1b 40780 1b 20.39
	Product	LD%	ASTE Qty	IMANI UOM	Rate	Тах	Amount	Origin
	1 Daily Cover-PCS-T 2 17.5% FEA-17.5% F	o 100 E 100	20.39	Tons %	22.50 17.50	anne with anne sink and and and the side and the	\$458.78 \$80.29	CLARK CLARK

17.50

Filtons

Total Tax Total Ticket

\$539.07

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\$80.29 CLARK

Driver's Signature

	Hillsboro Lan 3205 SE Minte Hillsboro, OR Ph: (503)-640	dfill, Inc. *** er Bridge 8, 97123 0-9427	Origina Ticket#	11   1368757
Customer Name MCDONALD Ticket Date 02/19/20 Payment Type Credit A Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R Generator OR-GEORG	EXC McDonald E 15 ccount (DIRT WITH GR E SCHMIDT AND	Excavati-Carrier WEST CO Vehicle# 14 Container Driver Larry Check# Billing # 00025 Grid Containe Billing # 00025 Containe Sons INC GEORGE SCHMIDT &	AST DUMP TRUCKS Volume 73 SONS, INC	
Time	Scale	Operator In	nbound Gross Tare	98840 1 42220 1
in 02/19/2015 11:53: Out 02/19/2015 11:53: Comments Consumer C	onments? We w	jdb jdb pant to know. Please call.	Net Tons	56620 1 28.3
In 02/19/2015 11:53: Out 02/19/2015 11:53: Comments Consumer C Product	omments? We w	jdb Jant to know. Please call. UOM Rate Ta	Net Tons Im ax Amount	56620 1 28.3 Origin
In 02/19/2015 11:53: Out 02/19/2015 11:53: Comments Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% F	ommenys? We w LD% Qty o 100 28. E 100	jdb Jant to know. Please call. UOM Rate To 31 Tons 22.50 % 17.50	Net Tons ax Amount \$636.98 \$111.47	56620 1 28.3 Origin CLARK CLARK
In 02/19/2015 11:53: Out 02/19/2015 11:53: Comments Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% F	omments? We w LD% Qty o 100 28. E 100	jdb Jant to know. Please call. E MANAGEMENT UOM Rate T. 31 Tons 22.50 % 17.50	Net Tons ax Amount \$636.98 \$111.47	56620 1 28.3 Origin CLARK CLARK

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403WM

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WASTE	Hillsboro Landfill, In Angel 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427	Original Ticket# 1368727
Customer Name MCDONALDE Ticket Date 02/19/201 Payment Type Credit Ac Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563DR Generator OR-GEORGE	XC McDonald Excavati Carrier WEST COAST 5 Vehicle# 14 Count Container Driver Larry Check# Billing # 0002573 Gen EPA ID N/A Grid (DIRT WITH GRAVEL) SCHMIDT AND SONS INC GEORGE SCHMIDT & SON	DUMP TRUCKS Volume
Time In 02/19/2015 09:16:3 Out 02/19/2015 09:17:4 Comments ( Consumer Co	Scale Operator Inbou 5 Inbound_1 sreece 4368777725.27 Streece * Manual Weight 36877725.27 Order 3254 Wesher meents? We want to know. Please call.	nd Gross 88000 1b Tare 42220 1b* Net 45780 1b Tons 22.89 J-1 Hillsbeig Landstill
1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	100 22.89 Tons 22.50 100 % 17.50	\$515.03 CLARK \$90.13 CLARK
Duringu'r Cignature	12	Total Tax Total Ticket \$605.16
403WM		8

Hillsboro 3205 SE M Hillsboro Ph: (503)	Landfill, Inc inter Bridge , OR, 97123 -640-9427	Origina) Ticket#	1368681
Customer Name MCDONALDEXC McDona Ticket Date 02/19/2015 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R (DIRT WIT Generator OR-GEORGE SCHMIDT	ld Excavati Carrier WEST COAS Vehicle# 007 Container Driver Joe Check# Billing # 0002573 Gen EPA ID N/A Grid H GRAVEL) AND SONS INC GEORGE SCHMIDT & S	T DUMP TRUCKS Volume	
Time Scal In 02/19/2015 06:03:39 Inbou Out 02/19/2015 06:03:39 Comments 'l' Consumer Comments?	e Operator Inb nd_1 sreece sreece We want to know. Please call.	ound Gross Tare Net Tons	93340 16 37700 16 55640 16 27.88
Product 10%	STE NIAMAGENIERT	Amount	Orinin

pro	duct	(_D%	Qty	UOM	Rate	Тах	Amount	Origin
1 2	Daily Cover-PCS-To 17.5% FEA-17.5% FE	100 100	27.82	Tons %	22.50 17.50	an an a suite suite suite saan soo	\$625.95 \$109.54	CLARK CLARK
		/						
		1						
		p						
				~			Total Tax Total Ticket	\$735.49
)riv	er's Signature		n <sup>1</sup> e Ki	i The St				



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Customer Name Ticket Date Payment Type Manual Ticket Hauling Ticket Route State Waste C Manifest Destination PO	MCDONALDEXC McDonald 1 02/19/2015 Credit Account # t# ode na 15008 1175630R (DIRT WITH G op-groupse Schmidt ANT	Excavati Carrier WES Vehicle# 007 Container Driver Joe Check# Billing # 0 Gen EPA ID 1 Grid SRAVEL) SONS INC GEORGE SCHM	T COAST DUMP	TRUCKS Volume	
Time In 02/19/20 Out 02/19/20	Scale 15 09:30:43 Inbound 15 09:30:43	Operator _1 sreece _sreece	Inbound	Gross Tare Net Tons	84640 lb 37700 lb 46940 lb 23.47

Original Ticket# 1368732

Comments

Consumer Comments? We want to knew. Please call.

Desertu	res fre	LD%	Qty	UOM	Rate	Тах	Amount	Origin
1 2	Daily Cover-PCS-To 17.5% FEA-17.5% FE	100 100	23.47	Tons %	22.50 17.50		\$528.08 \$92.41	CLARK
							Total Tax Total Ticket	\$620.49
Drive	r`s Signature							œ
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	Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427	Origina Ticket#	1 1368772
Customer Name MCDDNALDE Ticket Date 02/19/201 Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R	EXC McDonald Excavati Carrier W 15 Vehicle# Ø ccount Container Driver Jo Check# Billing # Gen EPA ID Grid (DIRT WITH GRAVEL)	EST COAST DUMP TRUCKS 07 Volume 0002573 N/A	
Generator OR-GEORGE	SCHMIDT AND SONS INC GEORGE SCH	MIDT & SONS, INC .	
Time In 02/19/2015 13:26:4 Out 02/19/2015 13:26:4 Comments	Scale Operator 12 Inbound 2 jdb 12 jdb	Inbound Gross Tare Net Tons	94460 1b 37700 1b 56760 1b 28.38
Consumer Co	mments? We want to know Diese	call	

Product	1	(ang)	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Daily 2 17.5%	Cover-PC FEA-17.5	25-To 1% FE	100	28.38	Tons %	22.50 17.50		\$638.55 \$111.75	CLARK CLARK
)river`s Si	gnature				A.			Total Tax Total Ticket	\$750,30

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WASTE MANAGEMENT	Hillsbore ( 3205 SE Min Hillsboro, Ph: (503)-(	Land ntex DR, 9712 540-9427	Inc Je 23		Origina: Ticket#	l 1368722
Customer Name MCDONALD Ticket Date 02/19/20 Payment Type Credit A Manual Ticket Hauling Ticket Route State Waste Code Manifest na Destination PO 15008 Profile 117563DR Generator OR-GEORG	EXC McDonal 15 200unt (DIRT WITH E SCHMIDT A	GRAVEL) ND SONS 1	i Carrier Vehicle# Container Driver Check# Billing # Gen EPA II Grid	McDe 853 Rick 0002573 N/A N/A	Volume S, INC	
Time Iň 02/19/2015 09:09: Out 02/19/2015 09:09: Comments	Scale 36 Inboun 36 50 Scale	d_1 ;	Operator svæce sreece	Inbour	nd Gross Tare Net Tons	91740 1b 38020 1b 53720 1b 26.86
Product	LD% Q	ty U	<b>Rivogie</b> Mg Rate	VIENIT Tax	Amount	Origin
Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% FI	LD% Q 0 100 E 100	26.86 To	Rate	<b>MENT</b> Tax 2.50 7.59	Amount \$604.35 \$105.76	Origin CLARK CLARK
Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% Fi	LD% Q	ty U0	Anage Mate As 21	<b>MENT</b> Tax 2.50 7.50	Amount \$604.35 \$105.76 Total Tax	Origin CLARK CLARK
Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% FI	LD% Q	ty U0	Alta Rate	<b>HENT</b> Tax 2.50 7.50	Amount \$604.35 \$105.76 Total Tax Total Ticket	Origin CLARK CLARK \$710.11



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

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Customer Name	MCDONALDEXC McDonald Excava	ti Carrier	McDe	
Ticket Date	02/19/2015	. Vehicle#	853	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	Rick	
Hauling Ticket	÷	Check#		
Route		Billing #	0002573	
State Waste Co	de	Gen EPA I	D N/A	
Manifest	na			
Destination		Grid		
PO	15008	1. S.		
Profile	117563DR (DIRT WITH GRAVEL)			
Generator	OR-GEORGE SCHMIDT AND SONS	INC GEORGE S	CHMIDT & SONS, INC	

Time		Scale	Operator		Inbound	Gross	94880	16
In 02/19/2015	11:33:31	Inbound_1	jdb			Tare	38020	1b
Out 02/19/2015 :	11:33:31	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	106	Maria		Net	× 56860	1b
			and the second s			Tons	28	. 43
Comments								

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Consumer Comments? We want to know. Please dall.

Prod	uct		LD%	Qty	UDMS	Rate	Тах	Amount	Origin
1 2	Daily 17.5%	Cover-PCS-T FEA-17.5% FI	o 100 E 100	28.43	Tons %	22.50 17.50	, and the poly and and the second	\$639.68 \$111.94	CLARK
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ŝ,		RD	10-1	2	- * 5		T	Total Tax otal Ticket	\$751.62

Driver's Signature
	Hillsboro Landfil 3205 SE Mintor Be Hillsboro, DR, 97 Ph: (503)-640-942	l, Inc idge 123 7	Origina Ticket#	1 1368783
Customer Name MCDONALDE Ticket Date 02/19/201 Payment Type Credit Ac Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R Generator OR-GEORGE	CXC McDonald Excave 5 20000t (DIRT WITH GRAVEL 5 SCHMIDT AND SONS	ati Carrier McDe Vehicle# 053 Container Driver Rick Check# Billing # 000 Gen EPA ID N/P Grid	Volume 02573 } F & SONS, INC	
Time In 02/19/2015 14:09:5 Dut 02/19/2015 14:09:5 Comments Consumer Co	Scale 53 Inbound_1 53 53 53 53 53 53 53 53 53 53 53 53 53	Operator jrichards jrichards to know. Please da	Inbound Gross Tare Net Tons	90700 16 38020 16 52680 16 26.34
1 Daily Cover-PCS-To 2 17.5% FEA-17.5% FE	LD, Gry 1 5 100 26.34 2 100 1	Tons 22.50 % 17.50	13X Hmount \$592.65 \$103.71	CLARK CLARK CLARK
Driver's Sinnatura	ROBA	5	Total Tax Total Ticket	\$696.36

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WAS	Custo Ticke Payme Manua Hauli Route State Manif Desti PO Profi Gener	AGEMENT Mer Na t Date ent Typ l Tick ng Tic Waste est nation le ator	• me MCDO 02/1 e Cred et# ket# Code na 1500 1175 OR-6	NALDE) 9/2015 it Acc it Acc 63DR ( EORGE	Hillsbor B205 SE Hillsbor Ch: (503 (C McDon Count Count Count SCHMIDT	o Landfi Minter B o, OR, 9 )-640-94 ald Exca ald Exca TH GRAVE AND SON	11, Inc ridge 7123 27 vati Car Veh Con Oci Bil Gen Gri S INC GE	rier CSI ićle# 108 tainer čk# 0 mg # 00 EPA 10 N/ EPA 10 N/ 0 CRGE SCHMID	r 02573 A T & SONS,	7 Origina i Ticket# Volume	1368802
	In Out Comme	Time 02/19/; 02/19/; nts	2015 14 2015 15	:52:01 :06:12	Y Sca Inbo Outb	le und 2 cund	Opera jdb jricha	tor	Inboand N	Gross Tare Net Tons	51180 lb 24900 lb 26280 lb 13.14
	-		Consum	er Com	iments?	We want	≓ to know	. Please co	all.	4- 4- 1 	
	Produ	ict		ta da sense la con senar adant con	LD%	Qty =		Rate	Tax	Amount	Origin
	CU	Daily ( 17.5%	Sover-P FEA-17.	CS-To 5% FE	100 100	13.14	Tons %	22.50 17.50		\$295.65 \$51.74	CLARK

Driver's Signature

Total Tax. Total Ticket

\$347.39

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#### Comments

Consumer Comments? We want to know. Please call.

Product		LD%	Qty	UOM internet	Rate	Tax	Amount	Origin
1 , Dail 2 17.5	/ Cover-PCS-To FEA-17.5% FE	100	23.39	Tons %	22.50 17.50	an	\$526.28 \$92.10	CLARK

Mary

Total Tax Total Ticket

\$618.38

Driver's Signature

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Customer Name MCDONALDEXC McDonald Excav Ticket Date 02/19/2015 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 117563DR (DIRT WITH GRAVEL Generator OR-GEORGE SCHMIDT AND SONS Time Scale In 02/19/2015 06:11:28	vati Carrier Vehicle# Containe Driver Check# Billing Gen EPA Grid J S INC GEORGE ( Operator	WEST COAST 107 Mike # 0002573 ID N/A SCHMIDT & SO	DUMP TRUCKS Valume	
PO 15008 Profile 117563OR (DIRT WITH GRAVEL Generator OR-GEORGE SCHMIDT AND SONS Time Scale In 02/19/2015 06:11:28 Inbound_1 Out 02/19/2015 06:11:28	Grid S INC GEORGE ( Operator	SCHMIDT & SO	√S, INC	
Time Scalé In 02/19/2015 06:11:28 Inbound_1_ Out 02/19/2015 06:11:28	Operator			
	sreece	Inboi Imboi	ind Gross Tare Net Tons	102040 1) 37100 1) 64940 1) 32.4
Product LD7 Gty	UCARLACE UOM Rat	RAENT e Tax	Amount	Örigin
1 Daily Cover-PCS-To 100 32.47 2 17.5% FEA-17.5% FE 100	Tons i %	22.50 17.58	\$730,58 \$127,85	CLARK CLARK
			1	
	/		Total Tax Total Ticket	\$858.43
Driver's Signature //M/	V			

403WM

	Hillsboro, OR, 97123 Ph: (503)-640-9427		
Customer Name Ticket Date Payment Type Manual Ticket# Hauling Ticket Route State Waste Co Manifest	MCDONALDEXC McDonald Excavati 02/19/2015 Credit Account # de na	Carrier WEST CDAST DUMP Vehicle# 107 Container Driver Mike Check# Billing # 0002573 Gen EPA ID N/A	TRUCKS Volume
Destination PO Profile Generator	15008 117563OR (DIRT WITH GRAVEL) OR-GEORGE SCHMIDT AND SONS IN	Grid C GEORGE SCHMIDT & SONS, INC	
Time	Scale 🔎 0	perator Inbound G	ross

Scale \_ Operat In 02/19/2015 09:39:27 Inbound\_1 sreece Out 02/19/2015 09:39:27 sreece Tare 37100 lb Net 52520 lb 37100 16 Comments Tons 26.26

Consumer Comments? We want to know. Please call.

Product	L.D%	Qty 🗼 UOM	Rate	Tax	Amount	Origin
1 Daily Cover-PCS-To	100	26.26 Tons	22.50		\$590.85	CLARK
2 17.5% FEA-17.5% FE	100	%	17.50		\$103.40	CLARK

Total Tax Total Ticket

\$694,25

Driver's Signature

51		Hill Ph:	sboro, OR, 97 (503)-640-942	123 7				
	Customer Name Ticket Date Payment Type Manual Ticket# Hauling Ticket Route State Waste Co Manifest Destination PO Profile	MCDONALDEXC M 02/19/2015 Credit Accoun # de na 15008 1175630R (DIR 09-050865 SCH	cDonald Excav t t T WITH GRAVEL MIDT OND SONS	ati Carrier W Vehicle# 1 Container Driver M Check# Billing # Gen EPA ID Grid	NEST COAST DUM 07 Nike 0002573 N/A MIDT & SONS,	P TRUCKS Volume		
	Time In 02/19/201 Dut 02/19/201	5 12:25:20 5 12:25:20	Scale Inbound_1	Operator jdb jdb	Inbound	Gross Tare Net	77460 37100 40360	lb lb lb

Comments

Consumer Comments? We want to know. Please call.

Product		n ni ze, ing za Udm	<b>CALENCE T</b> AX	Amount Origin
1 Daily Cover-PCS-To	100 . 20.18	Tons	22.50	\$454.05 CLARK
2 17.5% FER-17.5% FE	100	%	17.50	\$79.46 CLARK

Total Tax Total Ticket

Tons

\$533.51

6

20.18

Driver's Signature

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	Hillsboro 3205 SE Mi Hillsboro, Ph: (503)-	Landfill nter Bri OR, 971 640-9427	, Inc dge 23		-	Origina Ticket#	1 1368862 4 JUN
Customer Name MCDONALDE Ticket Date 02/20/20: Payment Type Credit Ad Manual Ticket# Hauling Ticket# Route State Waste Code Manifest na Destination PO 15008 Profile 1175630R Generator OR-GE086	EXC McDonal 15 200unt (DIRT WITH E SCHMIDT 6	d Excava H GRAVEL) AND SONS	ti Carrier Vehicles Contain Driver Check# Billing Gen EPA Grid INC GEORGE	McDe # 853 Pr Rick # 000257 ID N/A SCHMIDT &	3 SONS, IN	Volume	
Time In 02/20/2015 11:53: Out 02/20/2015 11:53: Comments Consumer C	Scald 58 Inbour 58 omments? 1	e nd_1 Ve wäht t	Operator jd5 jdb	In lease call.	bound	Gross Tare Net Tons	105500 lb 38020 lb 67480 lb 33.74
Product 1 Daily Cover-PCS-T 2 17.5% FEA-17.5% F	LD% a 100 E 100	33.74 T %	ium ka	22.50 17.50		\$759.15 \$132.85	CLARK
Driver's Signature					Tota Total	al Tax . 1 Ticket	\$892.00

# APPENDIX G





May 26, 2015 Project No. 0564.02.03

Jason Cook Washington State Department of Ecology PO Box 47600 Olympia, Washington 98504-7600

Re: Groundwater Monitoring Plan for George Schmid & Sons, Inc. 32nd Street Property

Dear Mr. Cook:

On behalf of George Schmid & Sons, Inc. (GSSI), Maul Foster & Alongi, Inc. has prepared this groundwater monitoring plan for the 32nd Street Property located at 1141 32nd Street, Washougal, Washington (the Property). GSSI completed the soils portion of a remedial action for the Property in early 2015. Groundwater in situ injections planned for the spring of 2015 are the other portion of the remedial action for the Property.

#### BACKGROUND



The Property was part of a large agricultural property until the mid-1930s and contained some residential buildings and outbuildings near its southeast portion. Light industrial use of the Property by GSSI started in the 1950s, with the main shop/office building constructed in the 1970s. Most of the remaining structures were constructed in the 1990s. On-site operations included heavy equipment maintenance and repair, power washing, sandblasting, equipment storage, and administrative business operations. All structures were removed from the Property by 2010.

The owner completed a remedial investigation and feasibility study for the Property. Soil and groundwater impacts were identified on the Property. Impacted soil was removed at four locations on the Property. Groundwater impacts identified near the location of a former diesel underground storage tank (UST) will be treated using in situ injections.

#### GROUNDWATER REMEDIAL ACTION

In spring 2015, in situ groundwater treatment by injection of an oxidizing agent will be applied to the contaminant plume. In total, there will be 18 injection points covering an area of 1,800 square feet near the former diesel UST. The injection points will be advanced to a depth of 26 feet, with the treatment interval from 12 to 26 feet. Regenesis Advanced Oxygen Release Compound (ORC Advanced®) will be used to enhance bioremediation of hydrocarbon contamination in groundwater. It is anticipated that two rounds of injections will be

Jason Cook May 26, 2015 Page 2

necessary. In addition, this technique likely will require multiple years to treat all groundwater contamination to below Model Toxics Control Act (MTCA) cleanup levels (CULs).

#### GROUNDWATER MONITORING PLAN

Groundwater monitoring will be conducted at and downgradient of the source area (the former diesel UST) at a conditional point of compliance (MW02, MW03, and MW07) to confirm that concentrations are stable or declining (see the attached figure). Groundwater samples will be collected using industry standard, low-flow purge methodology.

Groundwater samples will be collected in a laboratory-supplied amber glass bottle. The groundwater sample bottle will be placed on ice in a shipping container with chain-of-custody paperwork and transported to a Washington State Department of Ecology (Ecology)-certified laboratory for analysis. The groundwater sample will be analyzed for indicator hazardous substances: diesel-range organic (DRO) and residual-range organic (RRO; e.g., lube-oil-range organics) hydrocarbons, using the Northwest Total Petroleum Hydrocarbons Method NWTPH-Dx.

#### GROUNDWATER MONITORING SCHEDUIE A CT

Groundwater monitoring is assumed for five years—quarterly for the first year, semiannually for the remaining four years. Quarterly samples will be collected in April, July, October, and January, and semiannual samples will be collected in April and October during typically higher and lower groundwater levels.

The next scheduled sampling event is July 2015. Groundwater monitoring is anticipated to continue until the concentrations of DRO and RRO hydrocarbons in groundwater are below MTCA CULs for four consecutive monitoring events.

#### GROUNDWATER REPORTING

After each groundwater monitoring event, a brief letter report will be prepared and submitted to Ecology. The letter reports will summarize the groundwater analytical results. The analytical data will be uploaded to Ecology's Environmental Information Management database system.

Jason Cook May 26, 2015 Page 3 Project No. 0654.02.03

If you have any questions regarding the proposed groundwater monitoring plan, please contact me.

Sincerely,

Maul Foster & Alongi, Inc.

Alan R. Hughes, LG Senior Geologist

Attachment: Figure

cc: Cindy Schmid, George Schmid & Sons, Inc.

### DRAFT

# FIGURE





### Figure Monitoring Well Locations and Potentiometric Groundwater Surface (July 2014)

32<sup>nd</sup> Street Property George Schmid & Sons, Inc. Washougal, Washington

#### DRAFT

#### Legend



Monitoring Well Location Groundwater Elevation Contour (in feet NAVD88) Former Diesel UST Pit

Subject Property



Source: Aerial photograph obtained from Esri ArcGIS Online



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the prin rtain the usability of the

### **APPENDIX H** ENVIRONMENTAL COVENANT



After Recording Return Original Signed Covenant to: Jason Cook Toxics Cleanup Program Department of Ecology PO Box 47775 Olympia, Washington 98504-7775

#### **Environmental Covenant**

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Grantor: Schmid Family Limited Partnership I.
Grantee: State of Washington, Department of Ecology
Brief Legal Description: A portion of the tract of land conveyed to The Schmid Family Limited Partnership I, by boundary line adjustment quit claim deed reordered under Auditor's File No. 3358804, records of said county, lying in the Northeast quarter and Southeast quarter of Section 8, Township 1 North, Range 4 East of the Willamette Meridian.
Tax Parcel Nos.: 131880-000 (Tax Lot 160)
Cross Reference: VCP Identification: SW1430

#### RECITALS

**a.** This document is an environmental (restrictive) covenant (hereafter "Covenant") executed pursuant to the Model Toxics Control Act ("MTCA"), chapter 70.105D RCW and Uniform Environmental Covenants Act ("UECA"), chapter 64.70 RCW.

**b.** The Property that is the subject of this Covenant is part or all of a site commonly known as 32nd Street Property. The Property is legally described in Exhibit A, and illustrated in Exhibit B, both of which are attached (hereafter "Property"). If there are differences between these two Exhibits, the legal description in Exhibit A shall prevail.

**c.** The Property is the subject of remedial action under MTCA. This Covenant is required because residual contamination remains on the Property after completion of remedial actions. Specifically, the following principle contaminants remain on the Property:

Medium	Principle Contaminants Present
Soil	N/A
Groundwater	Diesel-range and lube-oil-range organics
Surface Water/Sediment	N/A

**d.** It is the purpose of this Covenant to restrict certain activities and uses of the Property to protect human health and the environment and the integrity of remedial actions conducted at the

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site. Records describing the extent of residual contamination and remedial actions conducted are available through the Washington State Department of Ecology.

- Soil Remedial Action Completion Report. Prepared for George Schmid & Sons, Inc. by Maul Foster & Alongi, Inc., Vancouver, WA. Forthcoming, 2015.
- Remedial Investigation and Feasibility Study Report. Prepared for George Schmid & Sons, Inc. by Maul Foster & Alongi, Inc., Vancouver, WA. October 14, 2014.

**e.** This Covenant grants the Washington State Department of Ecology, as holder of this Covenant, certain rights specified in this Covenant. The right of the Washington State Department of Ecology as a holder is not an ownership interest under MTCA, Chapter 70.105D RCW or the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA") 42 USC Chapter 103.

#### COVENANT

George Schmid & Sons, Inc., as Grantor and fee simple owner of the Property hereby grants to the Washington State Department of Ecology, and its successors and assignees, (hereafter "Ecology") the following covenants. Furthermore, it is the intent of the Grantor that such covenants shall run with the land and be binding on all current and future owners of any portion of, or interest in, the Property.

#### Section 1. General Restrictions and Requirements.

The following general restrictions and requirements shall apply to the Property:

**a.** Interference with Remedial Action. The Grantor shall not engage in any activity on the Property that may impact or interfere with the remedial action and any operation, maintenance, inspection or monitoring of that remedial action without prior written approval from Ecology.

**b. Protection of Human Health and the Environment.** The Grantor shall not engage in any activity on the Property that may threaten continued protection of human health or the environment without prior written approval from Ecology. This includes, but is not limited to, any activity that results in the release of residual contamination that was contained as a part of the remedial action or that exacerbates or creates a new exposure to residual contamination remaining on the Property.

**c. Continued Compliance Required.** Grantor shall not convey any interest in any portion of the Property without providing for the continued adequate and complete operation, maintenance and monitoring of remedial actions and continued compliance with this Covenant.

**d.** Leases. Grantor shall restrict any lease for any portion of the Property to uses and activities consistent with this Covenant and notify all lessees of the restrictions on the use of the Property.

**e. Amendment to the Covenant.** Grantor must notify and obtain approval from Ecology at least sixty (60) days in advance of any proposed activity or use of the Property in a manner that is inconsistent with this Covenant. Before approving any proposal, Ecology must issue a public notice and provide an opportunity for the public to comment on the proposal. If Ecology approves the proposal, the Covenant will be amended to reflect the change.



#### Section 2. Specific Prohibitions and Requirements.

In addition to the general restrictions in Section 1 of this Covenant, the following additional specific restrictions and requirements shall apply to the Property.

#### a. Stormwater facilities.

To minimize the potential for mobilization of contaminants remaining in the groundwater on the Property, no stormwater infiltration facilities or ponds shall be constructed within the area of the Property illustrated in Exhibit C.

#### b. Vapor/gas controls.

Any building or other enclosed structure constructed within the area of the Property illustrated in Exhibit C shall be constructed with a sealed foundation and with a vapor/gas control system installed and maintained to prevent the migration of vapors/gas into the building or structure.

#### c. Groundwater Use.

The groundwater beneath the Property remains contaminated and shall not be extracted for any purpose other than temporary construction dewatering, investigation, monitoring or remediation. Drilling of a well for any water supply purpose is strictly prohibited. Groundwater extracted from the Property for any purpose shall be considered potentially contaminated and any discharge of this water shall be done in accordance with state and federal law.

All stormwater catch basins, conveyance systems, and other appurtenances located within this area illustrated on Exhibit C shall be of water-tight construction.

#### d. Monitoring.

Three groundwater monitoring wells are located on the Property to monitor the performance of the remedial action. The Grantor shall maintain clear access to these devices and protect them from damage. The Grantor shall report to Ecology within forty-eight (48) hours of the discovery of any damage to any monitoring device. Unless Ecology approves of an alternative plan in writing, the Grantor shall promptly repair the damage and submit a report documenting this work to Ecology within thirty (30) days of completing the repairs.

#### Section 3. Access.

**a.** The Grantor shall maintain clear access to all remedial action components necessary to construct, operate, inspect, monitor and maintain the remedial action.

**b.** The Grantor grants Ecology and its authorized representatives, upon reasonable notice, the right to enter the Property at reasonable times to evaluate the effectiveness of this Covenant and associated remedial actions, and enforce compliance with this Covenant and those actions, including the right to take samples, inspect any remedial actions conducted on the Property, and to inspect related records.

**c.** No right of access or use by a third party to any portion of the Property is conveyed by this instrument.

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#### Section 4. Notice Requirements.

**a.** Conveyance of Any Interest. Except to the City of Washougal, the Grantor, when conveying any interest within the area of the Property illustrated in Exhibit C, including but not limited to title, easement, leases, and security or other interests, must:

- i. Notify Ecology at least thirty (30) days in advance of the conveyance.
- **ii.** Include in the conveying document a notice in substantially the following form, as well as a complete copy of this Covenant:

#### NOTICE: THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL COVENANT GRANTED TO THE WASHINGTON STATE DEPARTMENT OF ECOLOGY ON [DATE] AND RECORDED WITH THE CLARK COUNTY AUDITOR UNDER RECORDING NUMBER [Recording Number]. USES AND ACTIVITIES ON THIS PROPERTY MUST COMPLY WITH THAT COVENANT, A COMPLETE COPY OF WHICH IS ATTACHED TO THIS DOCUMENT.

**iii.** Unless otherwise agreed to in writing by Ecology, provide Ecology with a complete copy of the executed document within thirty (30) days of the date of execution of such document.

**b. Reporting Violations.** Should the Grantor become aware of any violation of this Covenant, Grantor shall promptly report such violation to Ecology.

**c. Emergencies.** For any emergency or significant change in site conditions due to Acts of Nature (for example, flood, fire) resulting in a violation of this Covenant, the Grantor is authorized to respond to such an event in accordance with state and federal law. The Grantor must notify Ecology of the event and response actions planned or taken as soon as practical but no later than within 24 hours of the discovery of the event.

**d.** Any required written notice, approval, or communication shall be personally delivered or sent by first class mail to the following persons. Any change in this contact information shall be submitted in writing to all parties to this Covenant.

George Schmid & Sons, Inc.	Environmental Covenants Coordinator
Carolyn A. Simms	Washington State Department of Ecology
PO Box 169	Toxics Cleanup Program
Washougal, WA 98671	P.O. Box 47600
(360) 833-2174	Olympia, WA 98504-7600
	(360) 407-6000

As an alternative to providing written notice and change in contact information by mail, these documents may be provided electronically in an agreed upon format at the time of submittal.

#### Section 5. Modification or Termination.

**a.** If the conditions at the site requiring a Covenant have changed or no longer exist, then the Grantor may submit a request to Ecology that this Covenant be amended or terminated. Any amendment or termination of this Covenant must follow the procedures in Chapter 64.70 RCW and Chapter 70.105D RCW and any rules promulgated under these chapters.

## DRAFT

#### Section 6. Enforcement and Construction.

**a.** This Covenant is being freely and voluntarily granted by the Grantor.

**b.** Grantor shall provide Ecology with an original signed Covenant and proof of recording within ten (10) days of execution of this Covenant.

**c.** Ecology shall be entitled to enforce the terms of this Covenant by resort to specific performance or legal process. All remedies available in this Covenant shall be in addition to any and all remedies at law or in equity, including Chapter 70.105D RCW and Chapter 64.70 RCW. Enforcement of the terms of this Covenant shall be at the discretion of Ecology, and any forbearance, delay or omission to exercise its rights under this Covenant in the event of a breach of any term of this Covenant is not a waiver by Ecology of that term or of any subsequent breach of that term, or any other term in this Covenant, or of any rights of Ecology under this Covenant.

**d.** The Grantor, upon request by Ecology, shall be obligated to pay for Ecology's costs to process a request from Grantor for any modification or termination of this Covenant and any approval required by this Covenant.

**e.** This Covenant shall be liberally construed to meet the intent of the Model Toxics Control Act, chapter 70.105D RCW and Uniform Environmental Covenants Act, chapter 64.70 RCW.

**f.** The provisions of this Covenant shall be severable. If any provision in this Covenant or its application to any person or circumstance is held invalid, the remainder of this Covenant or its application to any person or circumstance is not affected and shall continue in full force and effect as though such void provision had not been contained herein.

**g.** A heading used at the beginning of any section or paragraph or exhibit of this Covenant may be used to aid in the interpretation of that section or paragraph or exhibit but does not override the specific requirements in that section or paragraph.

The undersigned Grantor warrants he/she holds the title to the Property and has authority to execute this Covenant.

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_.

<u>Carolyn Simms</u> <u>Schmid Family Limited Partnership I</u>

Signature: \_\_\_\_\_\_ Manager

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

[SECTION MANAGER SIGNATURE - if VCP or Order.] [PROGRAM MANAGER SIGNATURE - if Consent Decree.]

# DRAFT

#### [TITLE]

Dated: \_\_\_\_\_



#### **GRANTOR INDIVIDUAL ACKNOWLEDGMENT**

STATE OF	
COUNTY OF	

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, I certify that \_\_\_\_\_ personally appeared before me, and acknowledged that **he/she** is the individual described herein and who executed the within and foregoing instrument and signed the same at his/her free and voluntary act and deed for the uses and purposes therein mentioned.

> Notary Public in and for the State of Washington, residing at \_\_\_\_\_. My appointment expires\_\_\_\_\_.

#### **GRANTOR CORPORATE ACKNOWLEDGMENT**

STATE OF COUNTY OF \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_, I certify that \_\_\_\_\_ personally appeared before me, acknowledged that **he/she** is the \_\_\_\_\_\_

of the corporation that executed the within and foregoing instrument, and signed said instrument by free and voluntary act and deed of said corporation, for the uses and purposes therein mentioned, and on oath stated that he/she was authorized to execute said instrument for said corporation.

> Notary Public in and for the State of Washington, residing at \_\_\_\_\_. My appointment expires\_\_\_\_\_.

#### Exhibit A

#### LEGAL DESCRIPTION

"Exhibit A"

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Mackay & Sposito, Inc. ENGINEERS SURVEYORS PLANNERS VANCOUVER KENNEWICK

1325 SE Tech Center Drive, Suite 140, Vancouver, WA 98683 - (360) 695-3411 Fax: (360) 695-0833

#### LEGAL DESCRIPTION ADJUSTED ASSESSOR'S SERIAL # 131880-000 CITY OF WASHOUGAL, WASHINGTON

Real property situated in the City of Washougal, Clark County, Washington, being a portion of that tract of land conveyed to The Schmid Family Limited Partnership I, by boundary line adjustment quit claim deed recorded under Auditor's Flie No. 3356804, records of said county, lying in the Northeast quarter and Southeast quarter of Section 8, Township 1 North, Range 4 East of the Willamette Meridian, described as follows:

**Commencing** at the Northeast corner of the C.C. Stiles Donation Land Claim; thence South 01°09'41" West along the East line of said C.C. Stiles Donation Land Claim a distance of 955.55 feet to the easterly projection of the North line of that parcel conveyed to Pater Hasselberg by warranty deed recorded under Volume 88, Page 466, records of said county; thence North 88°18'19" West along said easterly projection a distance of 30.00 feet to the Northeast corner of said Volume 88, Page 466, being a point on the westerly right of way line of 32<sup>rd</sup> Street; thence continuing North 88°16'19" West along said North line a distance of 168.98 feet to the Northwest corner thereof, said point being the Point of Beginning; thence along the West line of said Hasselberg parcel the following courses:

South 38\*23'41" West a distance of 62.10 feet; thence South 40\*36'41" West a distance of 100.00 feet; thence South 27\*48'41" West a distance of 195.00 feet; thence South 45\*35'41" West a distance of 50.00 feet; thence South 57\*55'41" West a distance of 150.00 feet; thence South 69\*33'41" West a distance of 201.10 feet to the Southwest corner thereof, also being

a point on the North line of Riverside Addition to Washougal recorded in Book C of plats, Page 46, records of said county; thence North 88°50'19" West along said North line a distance of 121.17 feet to an angle point on the East line of Lot 4 as shown on short plat recorded in Book 1 of plats, Page 785, records of said county; thence North 01°27'41" East along said East line a distance of 85.00 feet to the Northeast corner thereof; thence North 88°50'19" West along the North line of said Lot 4 a distance of 84.66 feet to the

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West line of said Schmid Family Limited Partnership I parcel; thence North 01\*27'41" East along said west line a distance of 1002.84 feet to the Northwest comer thereof, also being a point on the South line of that tract of land conveyed to George W. Charters and Christine Charters by gift quit claim deed recorded under Auditor's File No. G 494545, records of said county; thence South 89\*23'57" East along said South line and the South line of that tract land conveyed to Emma M. Schmid by quit claim deed recorded under Auditor's File No. 3781370, records of said county, a distance of 350.01 feet to the Southeast comer of said Emma M. Schmid tract; thence North 24\*04'45" East along the east line of said Schmid tract a distance of 238.61 feet to an angle point therein; thence North 72\*16'37" East along the south line of said Schmid parcel and the south line of that tract of land conveyed to Mary F. Hargrave and Alan F. Hargrave, recorded under Auditor's File No. 3848057, records of said county, a distance of 117.01 feet to an angle point therein; thence North 85\*45'23" East along said south line a distance of 255.32 feet to the westerly right of way line of 32<sup>nd</sup> Street and being a point on an arc of a 984.88 foot radius non-tangent curve; thence along said westerly right of way line the following courses:

from a tangent bearing of South 08°03'26" East, along said curve to the left, through a central angle of 06°47'54", an arc distance of 116.86 feet; thence South 14°51'19" East a distance 96.70 feet to the point of curvature of a 925.30 foot radius curve; thence along said curve to the right through a central angle of 16°01'00", an arc distance of 258.66 feet; thence South 01°09'41" West a distance of 267.47 feet to the North line of Auditor's File No. 9801270217;

thence leaving said westerly right of way line North 88°18'19" West along said North line distance of 73.11 feet; thence North 11°55'10" East a distance of 34.29 feet; thence North 76°33'08" West a distance of 40.42 feet; thence South 66°41'30" West a distance of 9.40 feet; thence South 20°16'09" West a distance of 185.30 feet; thence South 51°36'19" East a distance of 20.65 feet to the Point of Beginning.

EXCEPT that portion lying within the lines of ordinary high water of the Washougal River.

Containing 17.88 acres, more or less.

Subject to easements and restrictions of record.



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#### Exhibit B

#### **PROPERTY MAP**





Source: Aerial photograph obtained from Esri ArcGIS Online.

#### Exhibit B Property Overview

32nd Street Property George Schmid & Sons, Inc. Washougal, Washington



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. Legend

Subject Property



#### Exhibit C

MAP ILLUSTRATING LOCATION OF RESTRICTIONS



Source: Aerial photograph obtained from Esri ArcGIS Online.

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#### Exhibit C Location of Restrictions

#### Legend

Vapor Intrusion Restrictions Groundwater Restrictions

Subject Property

32nd Street Property George Schmid & Sons, Inc. Washougal, Washington

