SOIL REMEDIAL ACTION COMPLETION REPORT

SCHMID 32ND STREET PROPERTY—REMEDIAL ACTION

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

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The material and data in this report were prepared under the supervision and direction of the undersigned.

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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
BMP	best management practice
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CUL	cleanup level
cy	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

1 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).

2 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 32nd 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)[1] were identified at 13.5 feet below ground surface (bgs). The impacts likely are related to the former wash pad settling tanks.

[1] 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).

- Area 2: Diesel-range and lube-oil-range organics (collectively referred to in this report as TPH-D)[2] 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[3] 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

[2] 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.

[3] 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.

feet bgs[4]. 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.

[4] 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.

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.

5 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.

6 FINAL INSPECTION

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.

7 CERTIFICATION

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.

8 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.

LIMITATIONS

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.

REFERENCES

MFA. 2015. 32nd 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: 32nd street property. Prepared for George Schmid & Sons, Inc. Maul Foster and Alongi, Inc., Vancouver, Washington. October 17.

TABLES

Table 1
Excavation Area 1 Soil Confirmation Results (mg/kg)
32nd Street Property
Washougal, 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 Depth (ft bgs):		15	17	13	12	13.5	10	12.5
	MTCA A							
Polycyclic Aromatic Hydrocarbons								
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								
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 1
Excavation Area 1 Soil Confirmation Results (mg/kg)
32nd Street Property
Washougal, Washington

NOTES:

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

-- = not analyzed/not applicable.

cPAH TEQ = carcinogenic polycyclic aromatic hydrocarbon toxicity equivalent.

CUL = cleanup level.

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, unrestricted land use.

NV = no value.

TPH-D = sum of diesel-range, hydraulic-oil-range, and lube-oil-range hydrocarbons.

U = not detected.

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

Excavation:		Excavation Area 2				
Location:		Base	East Wall	North Wall	South Wall	West Wall
Sample Name:		TP02-B1-5	TP02-E1-4.0	TP02-N1-4.0	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 Hydrocarbons						
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:

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

Excavation:		Excavation Area 3				
Location:		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	1.0	1.0	1.0	1.0
	MTCA A					
Total Petroleum Hydrocarbons						
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 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						
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

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 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 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

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 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[a]	0.01636 U	0.01476 U	0.01653 U	0.01589 U	0.01423 U
cPAH TEQ	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.

[a]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.

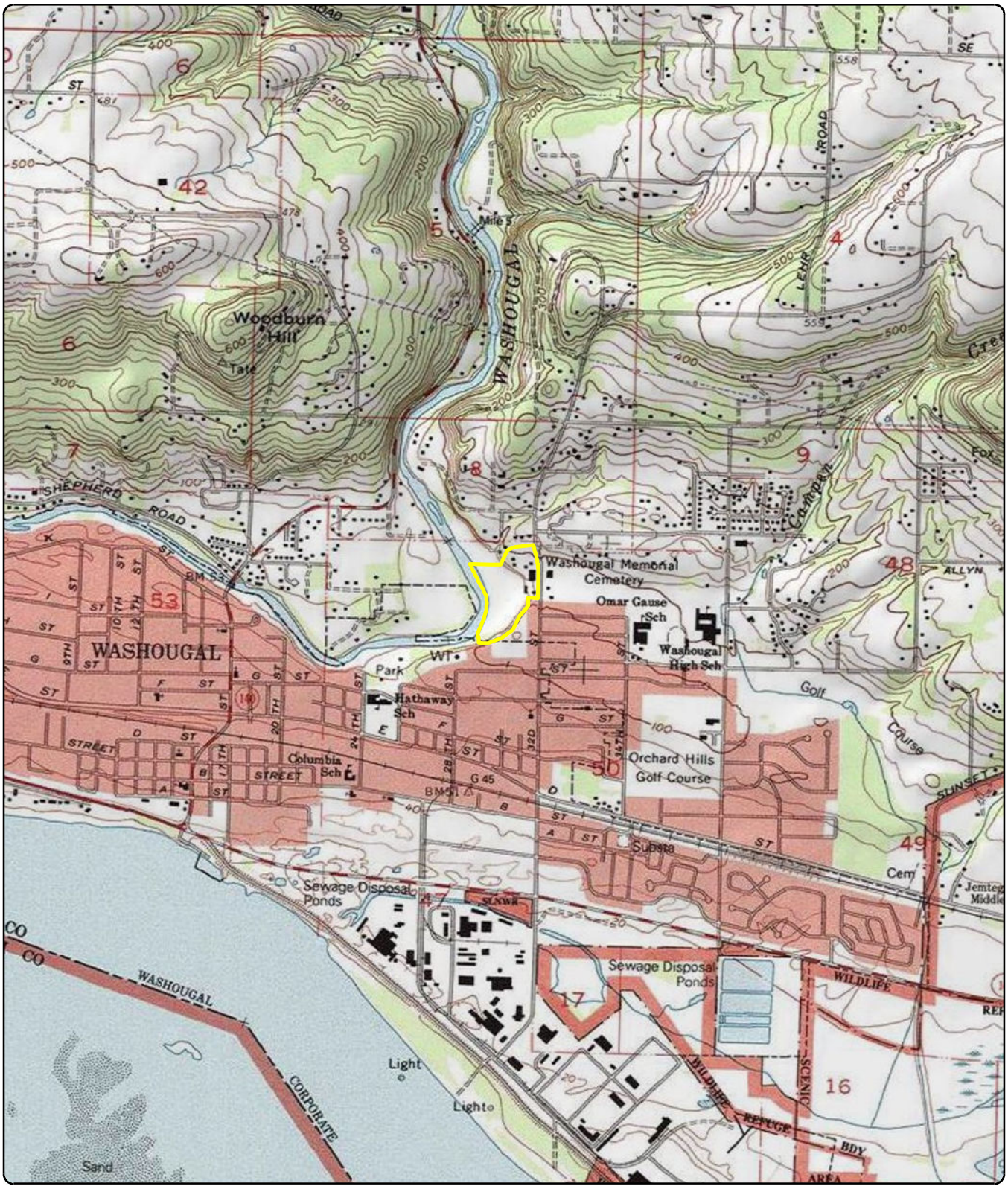
NV = no value.

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.

[a]Sum of naphthalene, 1-methylnaphthalene, and 2-methylnephthalene detections or half of method reporting limits if nondetect.

FIGURES



Site Address: 1411 32nd Street, Washougal, Washington
Source: U.S. Geological Survey (1990) 7.5-minute topographic quadrangle: Washougal
Section DLC47, Township 1 North, Range 4 East of the Willamette Meridian

DRAFT

Legend

Subject Property

Figure 1
Site Location

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

0 1,000 2,000
Feet

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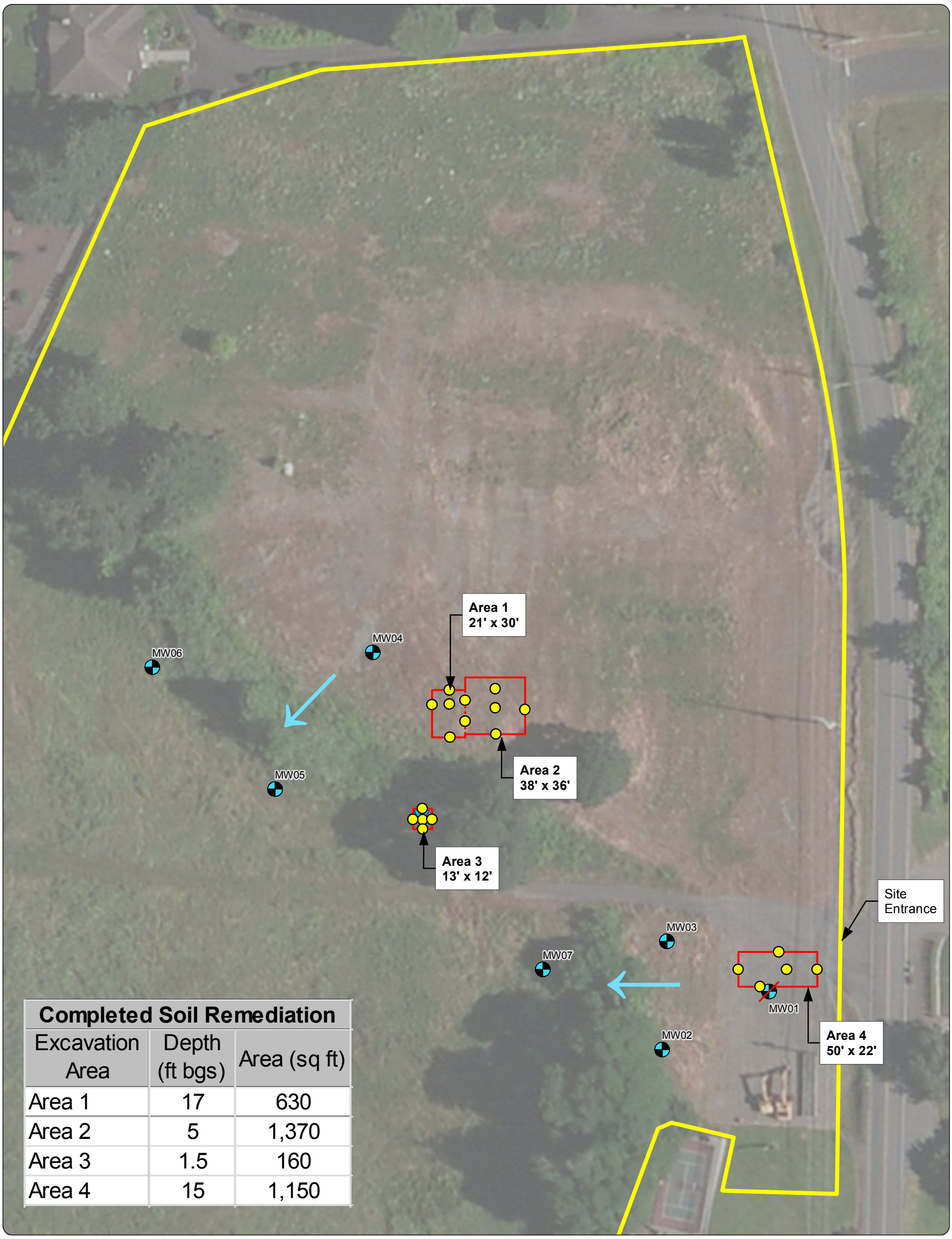
Path: X:\0564.02 ACP\01\04\Projects\Fig1_Site Location.mxd
Print Date: 4/24/2015
Approved By: jpounds
Produced By: rmaronn
Project: 0564.02.01-04



Completed Soil Remediation		
Excavation Area	Depth (ft bgs)	Area (sq ft)
Area 1	17	630
Area 2	5	1,370
Area 3	1.5	160
Area 4	15	1,150

Source: Aerial photograph obtained from Esri ArcGIS Online.

Notes:
ft bgs = feet below groundsurface
sq ft = square feet

Legend

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

Figure 2
Completed Soil Remediation

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

0 30 60
Feet

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Print Date: 5/11/2015
Approved By: jpounds
Produced By: jschane
Project: 0564.02.01-04

APPENDIX A

SITE PHOTOGRAPHS

PHOTOGRAPHS

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

Photograph 1

Date
February 17, 2015

Remedial Action
Area 1 Excavation

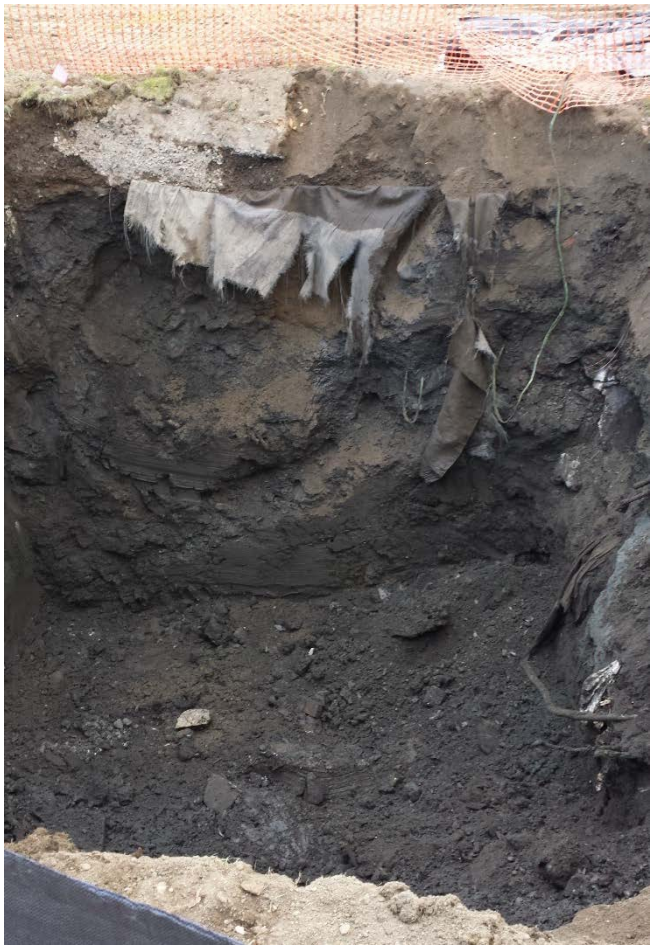
Description
Clean overburden is excavated from Area 1 and stockpiled for later backfill.

Photograph 2

Date
February 18, 2015

Remedial Action
Area 1 Excavation

Description
North excavation wall.



PHOTOGRAPHS

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

Photograph 3

Date
February 18, 2015

Remedial Action
Area 1 Excavation

Description
East excavation wall.

Photograph 4

Date
February 18, 2015

Remedial Action
Area 1 Excavation

Description
South excavation wall.

PHOTOGRAPHS

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

Photograph 5

Date
February 18, 2015

Remedial Action
Area 1 Excavation

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

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.

PHOTOGRAPHS

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

Photograph 7

Date
February 18, 2015

Remedial Action
Area 2 Excavation

Description
Excavation of Area 2.

Photograph 8

Date
February 18, 2015

Remedial Action
Area 4 Excavation

Description
Contaminated sandy loam at approximately 6 feet bgs.

PHOTOGRAPHS

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

Photograph 9

Date
February 19, 2015

Remedial Action
Area 4 Excavation

Description
The north wall of excavation Area 4.

Photograph 10

Date
February 19, 2015

Remedial Action
Area 4 Excavation

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

PHOTOGRAPHS

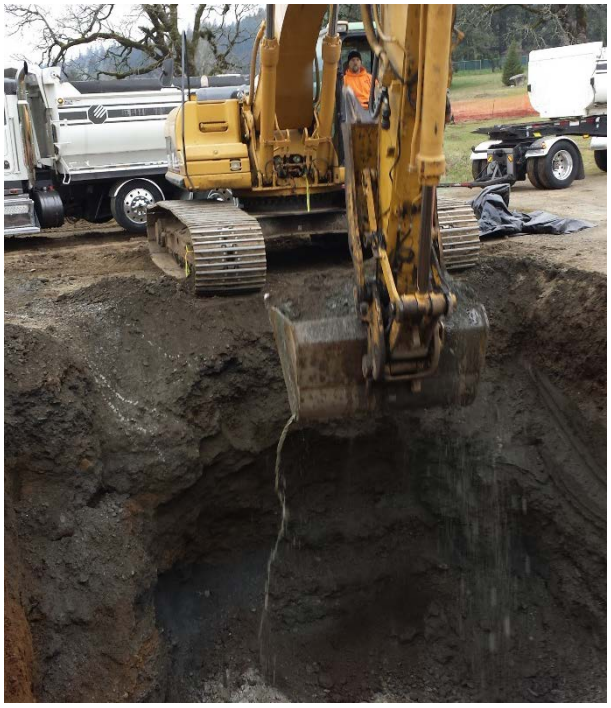
Project Name: George Schmid & Sons—32nd St. Soil Remedial Action
Project Number: 0564.02.03
Location: 1411 32nd Street, Washougal, Washington

Photograph 11

Date
February 19, 2015

Remedial Action
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.



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.

PHOTOGRAPHS

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

Photograph 13

Date
February 19, 2015

Remedial Action
Area 4 Excavation

Description
A view of excavation Area 4 facing east.

Photograph 14

Date
February 19, 2015

Remedial Action
Area 4 Excavation

Description
A view of excavation Area 4 facing west.

PHOTOGRAPHS

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

Photograph 15

Date
February 18, 2015

Remedial Action
Sampling Soil

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

Photograph 16

Date
February 20, 2015

Remedial Action
Area 2 Excavation

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

PHOTOGRAPHS

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

Photograph 17

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.

Photograph 18

Date
February 19, 2015

Remedial Action
Area 1 Excavation

Description
Additional excavation of 12 feet to the south wall.

PHOTOGRAPHS

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

Photograph 19

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.

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.

PHOTOGRAPHS

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

Photograph 21

Date
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.

Photograph 22

Date
March 27, 2015

Remedial Action
Area 4 Finished Grade

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

PHOTOGRAPHS

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

Photograph 23

Date
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.

APPENDIX B

MONITORING WELL DECOMMISSIONING REPORT

Please print, sign and return by mail to Department of Ecology

:ESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT Notice of Intent No. AE 30749

onstruction/Decommission *(select one)*
] Construction
] Decommission *ORIGINAL INSTALLATION Notice of Intent Number* _____

Type of Well *(select one)*
[XX] Resource Protection
[ ] Geotech Soil Boring

onsulting Firm _____

nique Ecology Well ID
ag No. BHV 180

Property Owner Schmidt Family C/o McDonald
Site Address 1411 32nd St. Excavating
City Washougal County Clark
Location SW1/4-1/4 NE 1/4 Sec 8 Twn 1N R 4E Select One [ ] Ev [ ] W

'ELL CONSTRUCTION CERTIFICATION: I constructed and/or cept responsibility for construction of this well, and its compliance with all ashington well construction standards. Materials used and the information reported ove are true to my best knowledge and belief.

Lat/Long (s, t, r still REQUIRED) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Tax Parcel No. 131880000

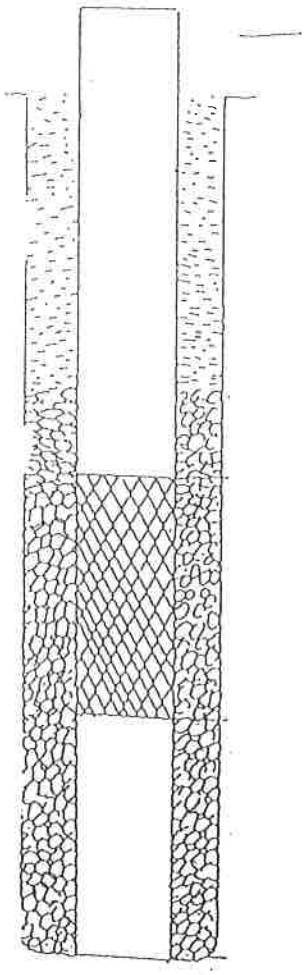
Driller [ ] Engineer [ ] Trainee Name (Print) Ron Aspaas
riller/Engineer/Trainee Signature _____
riller or Trainee License No. 0006

Cased or Uncased Diameter 2" Static Level 15

Work/Decommission Start Date 2-17-15

Work/Decommission Completed Date 2-17-15

'trainee, licensed driller's signature and License No. _____

Construction/Design	Well Data	Formation Description
	Decommission 2" Dia well x 24 ft. Deep sealed with Bentonite chips 0 - 24 ft.	

ECY 050-12 (Rev. 2/03)

SCALE: 1"= __ Page__of__

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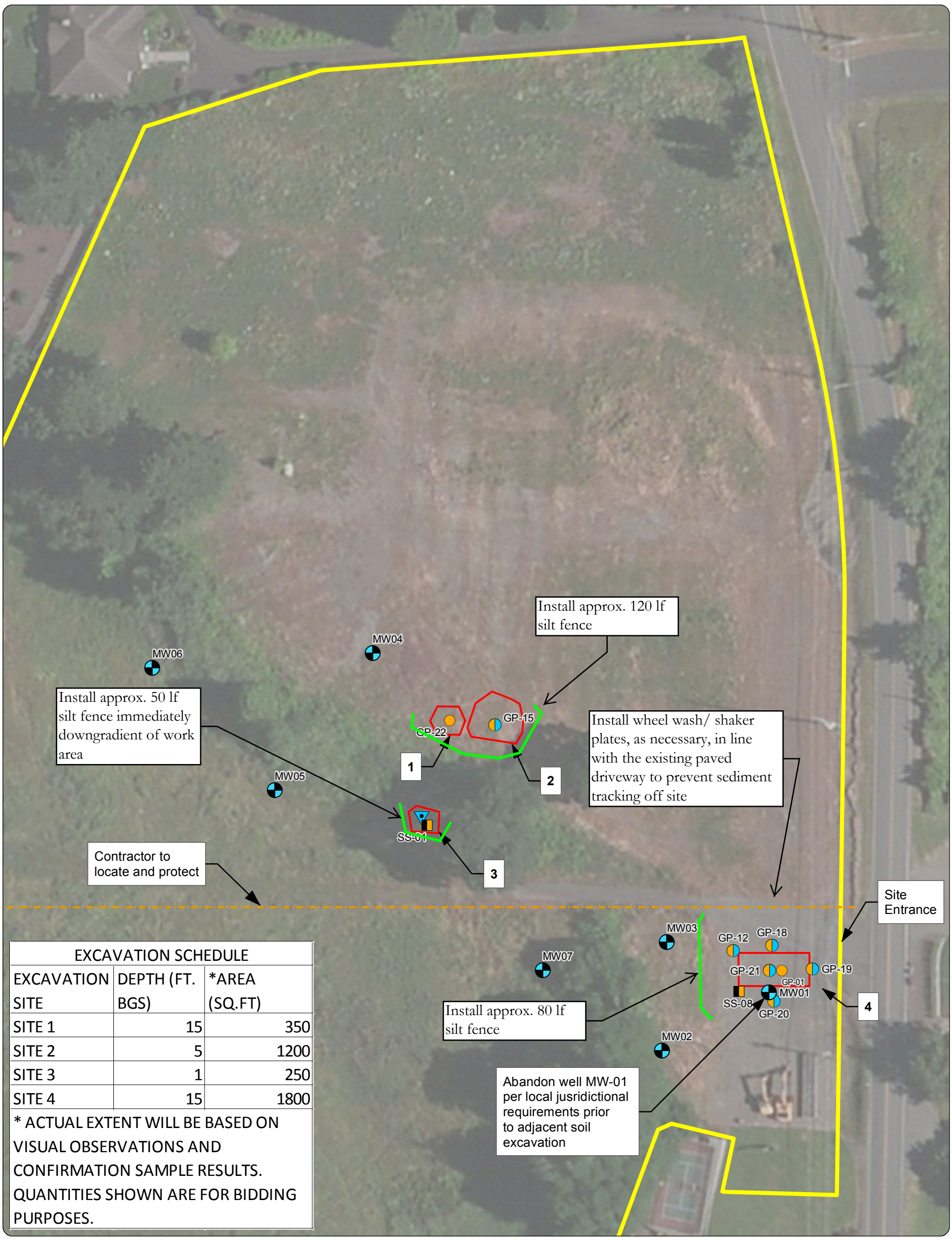
APPENDIX C

WORK PLAN SITE FIGURE



EXCAVATION SCHEDULE		
EXCAVATION SITE	DEPTH (FT. BGS)	*AREA (SQ.FT)
SITE 1	15	350
SITE 2	5	1200
SITE 3	1	250
SITE 4	15	1800
* ACTUAL EXTENT WILL BE BASED ON VISUAL OBSERVATIONS AND CONFIRMATION SAMPLE RESULTS. QUANTITIES SHOWN ARE FOR BIDDING PURPOSES.		

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

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
32nd Street Property

George Schmid and Sons, Inc.
Washougal, Washington

0 30 60
Feet

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Print Date: 12/18/2014
Approved By: jpounds
Produced By: gherbert
Project: 0564.02.01-04

APPENDIX D

LABORATORY ANALYTICAL RESULTS

Specialty Analytical

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

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#: **1502168**

Date: **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.

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
Diesel	38.2	19.4		mg/Kg-dry	1	2/19/2015 11:02:29 AM
Lube Oil	181	64.8		mg/Kg-dry	1	2/19/2015 11:02:29 AM
Surr: o-Terphenyl	97.8	50-150		%REC	1	2/19/2015 11:02:29 AM
PAH'S BY GC/MS - LOW LEVEL		**SW8270D**				Analyst: **bda**
1-Methylnaphthalene	ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
2-Methylnaphthalene	ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Benz(a)anthracene	ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Benzo(a)pyrene	15.3	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Benzo(b)fluoranthene	21.4	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Benzo(k)fluoranthene	9.59	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Chrysene	ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Dibenz(a,h)anthracene	ND	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Indeno(1,2,3-cd)pyrene	13.5	8.64		µg/Kg-dry	1	2/19/2015 10:25:00 AM
Surr: 2-Fluorobiphenyl	83.7	42.6-128		%REC	1	2/19/2015 10:25:00 AM
Surr: Nitrobenzene-d5	81.6	21.7-155		%REC	1	2/19/2015 10:25:00 AM
Surr: p-Terphenyl-d14	93.1	44.9-155		%REC	1	2/19/2015 10:25:00 AM

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **bda**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **bda**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
Diesel	82.2	19.8	K	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: **bda**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
Diesel	132	19.3	K	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: **bda**
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

Specialty Analytical

Date Reported: 25-Feb-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/18/2015 11:17:00 AM
Project: 32nd St Remedail Action / 0564.02.03
Lab ID: 1502168-006
Client Sample ID: TP02-W1-4.5
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

Specialty Analytical

Date Reported: 25-Feb-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/18/2015 11:22:00 AM
Project: 32nd St Remedail Action / 0564.02.03
Lab ID: 1502168-007
Client Sample ID: TP02-S1-4.0
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

QC SUMMARY REPORT

WO#: **1502168**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18944**
Client ID: **CCV**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	869	15.0	999.0	0	87.0	85	115				
Lube Oil	445	50.0	499.5	0	89.0	85	115				

Sample ID: **MB-8950**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/18/2015**	RunNo: **18944**
Client ID: **PBS**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	30.8		33.33		92.5	50	150				

Sample ID: **LCS-8950**	SampType: **LCS**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/18/2015**	RunNo: **18944**
Client ID: **LCSS**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	148	15.0	166.7	0	88.8	76.3	125				
Lube Oil	153	50.0	166.7	0	92.0	69.9	127				

Sample ID: **1502168-004ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/18/2015**	RunNo: **18944**
Client ID: **TP01-W1-12.5**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502168**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **1502168-004ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/18/2015**	RunNo: **18944**
Client ID: **TP01-W1-12.5**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251236**

Analyte	Result	PQL	SPK value	SPK 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: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18944**
Client ID: **CCV**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251240**

Analyte	Result	PQL	SPK value	SPK 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: **CCB**	SampType: **CCB**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18944**
Client ID: **CCB**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	31.4		33.30		94.4	50	150				

Sample ID: **1502150-003ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/19/2015**	RunNo: **18944**
Client ID: **ZZZZZZ**	Batch ID: **8950**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/19/2015**	SeqNo: **251245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502168**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **1502150-003ADUP** SampType: **DUP** TestCode: **NWTPHDX_S** Units: **mg/Kg-dry** Prep Date: **2/19/2015** RunNo: **18944**

Client ID: **ZZZZZZ** Batch ID: **8950** TestNo: **NWTPH-Dx** **SW3545A** Analysis Date: **2/19/2015** SeqNo: **251245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	90.6	19.0						67.98	28.5	20	RA4
Lube Oil	74.7	63.3						69.77	6.78	20	

Sample ID: **CCV** SampType: **CCV** TestCode: **NWTPHDX_S** Units: **mg/Kg** Prep Date: RunNo: **18944**

Client ID: **CCV** Batch ID: **8950** TestNo: **NWTPH-Dx** **SW3545A** Analysis Date: **2/19/2015** SeqNo: **251362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	874	15.0	999.0	0	87.4	85	115				
Lube Oil	426	50.0	499.5	0	85.3	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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502168**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCV-8951** SampType: **CCV** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18936**

Client ID: **CCV** Batch ID: **8951** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/19/2015** SeqNo: **251148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	121	6.67	133.3	0	91.0	80	120				
2-Methylnaphthalene	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)fluoranthene	139	6.67	133.3	0	105	80	120				
Benzo(k)fluoranthene	141	6.67	133.3	0	106	80	120				
Chrysene	115	6.67	133.3	0	86.5	80	120				
Dibenz(a,h)anthracene	119	6.67	133.3	0	89.2	80	120				
Indeno(1,2,3-cd)pyrene	124	6.67	133.3	0	92.9	80	120				

Sample ID: **LCS-8951** SampType: **LCS** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: **2/18/2015** RunNo: **18936**

Client ID: **LCSS** Batch ID: **8951** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/19/2015** SeqNo: **251149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	229	6.67	333.4	0	68.7	29.1	109				
2-Methylnaphthalene	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)fluoranthene	363	6.67	333.4	0	109	58.6	117				
Benzo(k)fluoranthene	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)anthracene	336	6.67	333.4	0	101	44.2	124				
Indeno(1,2,3-cd)pyrene	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

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502168**

Specialty Analytical

25-Feb-15

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **MB-8951**	SampType: **MBLK**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date: **2/18/2015**	RunNo: **18936**
Client ID: **PBS**	Batch ID: **8951**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/19/2015**	SeqNo: **251150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	5.20		6.667		78.0	42.6	128				
Surr: Nitrobenzene-d5	5.54		6.667		83.1	21.7	155				
Surr: p-Terphenyl-d14	6.44		6.667		96.6	44.9	155				

Sample ID: **1502168-001AMS**	SampType: **MS**	TestCode: **PAHLL_S**	Units: **µg/Kg-dry**	Prep Date: **2/18/2015**	RunNo: **18936**
Client ID: **TP01-E1-13**	Batch ID: **8951**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/19/2015**	SeqNo: **251191**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	315	8.64	431.8	1.065	72.6	27.7	108				
2-Methylnaphthalene	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)fluoranthene	476	8.64	431.8	21.39	105	41.6	172				
Benzo(k)fluoranthene	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 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 recov

QC SUMMARY REPORT

WO#: **1502168**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedail Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **1502168-001AMS** SampType: **MS** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/18/2015** RunNo: **18936**

Client ID: **TP01-E1-13** Batch ID: **8951** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/19/2015** SeqNo: **251191**

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: **MSD** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/18/2015** RunNo: **18936**

Client ID: **TP01-E1-13** Batch ID: **8951** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/19/2015** SeqNo: **251210**

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	

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 recov

KEY TO FLAGS

Rev. May 12, 2010

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 OF CUSTODY RECORD

Page ___ of ___

Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: Alan Hughes
Company: Mayl Foster & Alongi
Address: 1400 E. Mill Plain
Vancover, WA 98661
Phone: _____ Fax: _____
Project No. 0564.02.03 Project Name 32nd St Remedial Action
Project Site Location OR ____ WA ✓ Other ____
Invoice To _____ P.O. No. _____

Collected By:
Signature: Zach CPyle
Printed: ZACHARY Pyle

Signature: _____
Printed: _____

Turn Around Time
☐ Normal 5-7 Business Days
☒ Rush 48
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: NWTPH-Dx	Analyses: cPAH	Analyses: NWTPH-Gx	Comments	Lab I.D.
2/18/15	08:45	TP01-E1-13	S	1	x	x			
	08:55	TP01-S1-13.5	S	1	x	x			
	09:12	TP01-N1-12	S	1	x	x			
	08:48	TP01-W1-12.5	S	1	x	x			
	08:28	TP01-B1-15	S	1	x	x			
	11:17	TP02-W1-4.5	S	1	X				
	11:21	TP02-S1-4.0	S	1	X				

For Laboratory Use
Lab Job No. 1502168
Shipped Via Specialty
Air Bill No. _____
Temperature On Receipt AMB °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Relinquished By	Date	Time	Received By	Relinquished By	Date	Time
Zachary C Pyle	2/18/15	12:55			2/18/15	1334
Company: Mayl Foster & Alongi			Company:	Company:		

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By	Date	Time
Cindy Hillegard	2/18/15	13:34

Specialty Analytical

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

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

Specialty Analytical

Date Reported: 24-Feb-15

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

Lab Order: 1502183

Lab ID: 1502183-001 **Collection Date:** 2/19/2015 9:30:00 AM
Client Sample ID: TP02-N1-4.0 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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 **Collection Date:** 2/19/2015 9:20:00 AM
Client Sample ID: TP02-B1-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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 **Collection Date:** 2/19/2015 9:35:00 AM
Client Sample ID: TP02-E1-4.0 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

QC SUMMARY REPORT

WO#: **1502183**

24-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
Client ID: **CCV**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1010	15.0	999.0	0	101	85	115				
Lube Oil	447	50.0	499.5	0	89.4	85	115				

Sample ID: **MB-8954**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **PBS**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	33.1		33.33		99.2	50	150				

Sample ID: **LCS-8954**	SampType: **LCS**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **LCSS**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	159	15.0	166.7	0	95.2	76.3	125				
Lube Oil	151	50.0	166.7	0	90.5	69.9	127				

Sample ID: **1502176-003ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **ZZZZZZ**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502183**

24-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **1502176-003ADUP** SampType: **DUP** TestCode: **NWTPHDX_S** Units: **mg/Kg-dry** Prep Date: **2/20/2015** RunNo: **18976**
Client ID: **ZZZZZZ** Batch ID: **8954** TestNo: **NWTPH-Dx** **SW3545A** Analysis Date: **2/23/2015** SeqNo: **251811**

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: **DUP** TestCode: **NWTPHDX_S** Units: **mg/Kg-dry** Prep Date: **2/20/2015** RunNo: **18976**
Client ID: **TP02-B1-5** Batch ID: **8954** TestNo: **NWTPH-Dx** **SW3545A** Analysis Date: **2/23/2015** SeqNo: **251814**

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: **CCV** SampType: **CCV** TestCode: **NWTPHDX_S** Units: **mg/Kg** Prep Date: RunNo: **18976**
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	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				

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 recov

KEY TO FLAGS

Rev. May 12, 2010

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 OF CUSTODY RECORD

Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: Alan Hughes
Company: Maul Foster & Alongi
Address: 400 E Mill Plain Blvd
Vancouver, WA
Phone: _____ Fax: _____
Project No. 0564.02.03 Project Name 32nd St Remedial Actn.
Project Site Location OR _____ WA ✓ Other _____
Invoice To _____ P.O. No. _____

Collected By:
Signature: Zach C Pyle
Printed: ZACHARY PYLE

Signature: _____
Printed: _____

Turn Around Time
☐ Normal 5-7 Business Days
☑ Rush 48 hr
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 1502183
Shipped Via Specialty
Air Bill No. _____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: NWTPH-Dx	Comments	Lab I.D.
2/19/15	09:30	TP02-N1-4.0	S	1	x		
↓	09:20	TP02-B1-5	S	1	x		
↓	9:35	TP02-E1-4.0	S	1	x		

Relinquished By	Company	Date	Time	Received By	Company
CEM GOLLA	MFA	2/20/15	1030	[signature]	FSA

Relinquished By	Company	Date	Time
[signature]		2/20/15	1505

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: Cindy Hillyard — Date 2/20/15 — Time 15:05

Specialty Analytical

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

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#: **1502185**

Date: **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..

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **BS**
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: **bda**
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: **CK**
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

Specialty Analytical

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
Matrix: SOIL

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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANICS BY GC/MS		**SW8260B**				Analyst: **CK**
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

Specialty Analytical

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
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **BS**
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: **bda**
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: **CK**
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

Specialty Analytical

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: **CK**
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

Specialty Analytical

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: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **BS**
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: **bda**
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 COMPOUNDS BY GC/MS		**SW8260B**				Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **BS**
Gasoline	23.6	4.22	A	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: **bda**
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 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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **BS**
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: **bda**
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 COMPOUNDS BY GC/MS		**SW8260B**				Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

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
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS	**SW8260B**					Analyst: **CK**
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

Specialty Analytical

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/19/2015 3:25:00 PM
Project: 32nd St Remedial Action / 0564.02.03
Lab ID: 1502185-006
Client Sample ID: TP03-E1-1.0
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

Specialty Analytical

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/19/2015 3:20:00 PM
Project: 32nd St Remedial Action / 0564.02.03
Lab ID: 1502185-007
Client Sample ID: TP03-N1-1.0
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

Specialty Analytical

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/19/2015 3:15:00 PM
Project: 32nd St Remedial Action / 0564.02.03
Lab ID: 1502185-008
Client Sample ID: TP03-B1-1.5
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

Specialty Analytical

Date Reported: 05-Mar-15

CLIENT:	Maul Foster & Alongi	**Collection Date:**	2/19/2015 3:35:00 PM
Project:	32nd St Remedial Action / 0564.02.03		
Lab ID:	1502185-009		
Client Sample ID:	TP03-W1-1.0	**Matrix:**	SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

Specialty Analytical

Date Reported: 05-Mar-15

CLIENT: Maul Foster & Alongi
Collection Date: 2/19/2015 3:30:00 PM
Project: 32nd St Remedial Action / 0564.02.03
Lab ID: 1502185-010
Client Sample ID: TP03-S1-1.0
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **CCV MSVWS-2015** SampType: **CCV** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **CCV** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252059**

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** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **LCSS** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252060**

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** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **PBS** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252061**

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 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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **MB** SampType: **MBLK** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **PBS** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252061**

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-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									
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 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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **MB** SampType: **MBLK** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **PBS** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252061**

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									
Bromochloromethane	ND	10.0									
Bromodichloromethane	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-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	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									

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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **MB** SampType: **MBLK** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **PBS** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252061**

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-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	110		100.0		110	71.5	112				
Surr: 4-Bromofluorobenzene	104		100.0		104	75.7	122				
Surr: Dibromofluoromethane	105		100.0		105	64.3	124				
Surr: Toluene-d8	111		100.0		111	74.9	120				

Sample ID: **A1502185-001BMS** SampType: **MS** TestCode: **8260_5035** Units: **µg/Kg-dry** Prep Date: RunNo: **18989**

Client ID: **ZZZZZZ** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252067**

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	12.2	48.74	0	106	75	148				

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **A1502185-001BMS** SampType: **MS** TestCode: **8260_5035** Units: **µg/Kg-dry** Prep Date: RunNo: **18989**

Client ID: **ZZZZZZ** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/23/2015** SeqNo: **252067**

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				
Trichloroethene	45.8	12.2	48.74	0	93.9	77.1	138				

Sample ID: **CCV MSVWS-2015** SampType: **CCV** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **CCV** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/24/2015** SeqNo: **252068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-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: **A1502185-001BMSD** SampType: **MSD** TestCode: **8260_5035** Units: **µg/Kg-dry** Prep Date: RunNo: **18989**

Client ID: **ZZZZZZ** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/24/2015** SeqNo: **252069**

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	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	
Chlorobenzene	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	
Trichloroethene	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 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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **A1502185-001BMSD**	SampType: **MSD**	TestCode: **8260_5035**	Units: **µg/Kg-dry**	Prep Date:	RunNo: **18989**
Client ID: **ZZZZZZ**	Batch ID: **8964**	TestNo: **SW8260B**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: **CCB**	SampType: **CCB**	TestCode: **8260_5035**	Units: **µg/Kg**	Prep Date:	RunNo: **18989**
Client ID: **CCB**	Batch ID: **8964**	TestNo: **SW8260B**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252070**

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									

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **CCB**	SampType: **CCB**	TestCode: **8260_5035**	Units: **µg/Kg**	Prep Date:	RunNo: **18989**
Client ID: **CCB**	Batch ID: **8964**	TestNo: **SW8260B**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	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-pentanone	ND	40.0									
Acetone	ND	100									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									
Bromodichloromethane	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-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									

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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_5035**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_5035** Units: **µg/Kg** Prep Date: RunNo: **18989**

Client ID: **CCB** Batch ID: **8964** TestNo: **SW8260B** **SW5035A** Analysis Date: **2/24/2015** SeqNo: **252070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	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-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl Chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	96.6		100.0		96.6	71.5	112				
Surr: 4-Bromofluorobenzene	98.9		100.0		98.9	75.7	122				
Surr: Dibromofluoromethane	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 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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCV MSVWS-2015** SampType: **CCV** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCV** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/23/2015** SeqNo: **252038**

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** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **LCSS** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/23/2015** SeqNo: **252039**

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: **1502185-001BMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: RunNo: **18987**

Client ID: **TP04-W2-11.0** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/23/2015** SeqNo: **252047**

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

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **1502185-001BMS** SampType: **MS** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: RunNo: **18987**

Client ID: **TP04-W2-11.0** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/23/2015** SeqNo: **252047**

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-2015** SampType: **CCV** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCV** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252048**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-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: **1502185-001BMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: RunNo: **18987**

Client ID: **TP04-W2-11.0** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252049**

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

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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **1502185-001BMSD** SampType: **MSD** TestCode: **8260_S** Units: **µg/Kg-dry** Prep Date: RunNo: **18987**

Client ID: **TP04-W2-11.0** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252049**

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** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252050**

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	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-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									

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	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	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									
Bromodichloromethane	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-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									

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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	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-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	96.6		100.0		96.6	71.5	112				
Surr: 4-Bromofluorobenzene	98.9		100.0		98.9	75.7	122				
Surr: Dibromofluoromethane	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 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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **2/24/2015** SeqNo: **252050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: **CCV MSVWS-2015** SampType: **CCV** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCV** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **3/2/2015** SeqNo: **253194**

Analyte	Result	PQL	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** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **3/2/2015** SeqNo: **253195**

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	10.0									
1,1,2-Trichloroethane	ND	10.0									
1,1-Dichloroethane	ND	10.0									
1,1-Dichloroethene	ND	10.0									

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **3/2/2015** SeqNo: **253195**

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-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	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	ND	20.0									
Acetone	ND	50.0									
Benzene	ND	10.0									
Bromobenzene	ND	10.0									
Bromochloromethane	ND	10.0									
Bromodichloromethane	ND	10.0									

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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **3/2/2015** SeqNo: **253195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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-Dichloroethene	ND	10.0									
cis-1,3-Dichloropropene	ND	10.0									
Dibromochloromethane	ND	10.0									
Dibromomethane	ND	10.0									
Dichlorodifluoromethane	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									

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: 8260_S**

Sample ID: **CCB** SampType: **CCB** TestCode: **8260_S** Units: **µg/Kg** Prep Date: RunNo: **18987**

Client ID: **CCB** Batch ID: **8969** TestNo: **SW8260B** **5030** Analysis Date: **3/2/2015** SeqNo: **253195**

Analyte	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-Dichloroethene	ND	10.0									
trans-1,3-Dichloropropene	ND	10.0									
Trichloroethene	ND	10.0									
Trichlorofluoromethane	ND	10.0									
Vinyl chloride	ND	10.0									
Surr: 1,2-Dichloroethane-d4	94.6		100.0		94.6	71.5	112				
Surr: 4-Bromofluorobenzene	96.5		100.0		96.5	75.7	122				
Surr: Dibromofluoromethane	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

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
Client ID: **CCV**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1010	15.0	999.0	0	101	85	115				
Lube Oil	447	50.0	499.5	0	89.4	85	115				

Sample ID: **MB-8954**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **PBS**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	33.1		33.33		99.2	50	150				

Sample ID: **LCS-8954**	SampType: **LCS**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **LCSS**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	159	15.0	166.7	0	95.2	76.3	125				
Lube Oil	151	50.0	166.7	0	90.5	69.9	127				

Sample ID: **1502176-003ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **ZZZZZZ**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **1502176-003ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **ZZZZZZ**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251811**

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: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/20/2015**	RunNo: **18976**
Client ID: **ZZZZZZ**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251814**

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: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
Client ID: **CCV**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251816**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1160	15.0	1332	0	86.8	85	115				
Lube Oil	658	50.0	666.0	0	98.8	85	115				

Sample ID: **CCB**	SampType: **CCB**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
Client ID: **CCB**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251817**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: NWTPHDX_S**

Sample ID: **CCB**	SampType: **CCB**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
Client ID: **CCB**	Batch ID: **8954**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/23/2015**	SeqNo: **251817**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lube Oil	ND	50.0									
Surr: o-Terphenyl	33.6		33.30		101	50	150				

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **18976**
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	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				

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: NWTPHGX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19005**
Client ID: **CCV**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/24/2015**	SeqNo: **252195**

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_S**	Units: **mg/Kg**	Prep Date: **2/24/2015**	RunNo: **19005**
Client ID: **PBS**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/24/2015**	SeqNo: **252196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	2.50									
Surr: 4-Bromofluorobenzene	2.86		5.000		57.1	50	150				

Sample ID: **LCS-8967**	SampType: **LCS**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date: **2/24/2015**	RunNo: **19005**
Client ID: **LCSS**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/24/2015**	SeqNo: **252197**

Analyte	Result	PQL	SPK value	SPK 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: **1502195-001ADUP**	SampType: **DUP**	TestCode: **NWTPHGX_S**	Units: **mg/Kg-dry**	Prep Date: **2/24/2015**	RunNo: **19005**
Client ID: **ZZZZZZ**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/24/2015**	SeqNo: **252199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	3.20						0	200	20	RF

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: NWTPHGX_S**

Sample ID: **1502185-001BDUP**	SampType: **DUP**	TestCode: **NWTPHGX_S**	Units: **mg/Kg-dry**	Prep Date: **2/24/2015**	RunNo: **19005**
Client ID: **TP04-W2-11.0**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/25/2015**	SeqNo: **252206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	3.05						0	0	20	

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19005**
Client ID: **CCV**	Batch ID: **8967**	TestNo: **NWTPH-Gx**	**5030_G_S**	Analysis Date: **2/25/2015**	SeqNo: **252214**

Analyte	Result	PQL	SPK value	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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: NWTPHGX_SA**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19001**
Client ID: **CCV**	Batch ID: **8968**	TestNo: **NWTPH-Gx**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252165**

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-8968**	SampType: **MBLK**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date: **2/24/2015**	RunNo: **19001**
Client ID: **PBS**	Batch ID: **8968**	TestNo: **NWTPH-Gx**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	2.50									
Surr: 4-Bromofluorobenzene	2.86		5.000		57.1	50	150				

Sample ID: **LCS-8968**	SampType: **LCS**	TestCode: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date: **2/24/2015**	RunNo: **19001**
Client ID: **LCSS**	Batch ID: **8968**	TestNo: **NWTPH-Gx**	**SW5035A**	Analysis Date: **2/24/2015**	SeqNo: **252171**

Analyte	Result	PQL	SPK value	SPK 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: **NWTPHGX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19001**
Client ID: **CCV**	Batch ID: **8968**	TestNo: **NWTPH-Gx**	**SW5035A**	Analysis Date: **2/25/2015**	SeqNo: **252172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	143	2.50	125.0	0	114	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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode:** **NWTPHGX_SA**

Sample ID: **A1502185-001BDUP** SampType: **DUP** TestCode: **NWTPHGX_S** Units: **mg/Kg** Prep Date: RunNo: **19001**

Client ID: **ZZZZZZ** Batch ID: **8968** TestNo: **NWTPH-Gx** **SW5035A** Analysis Date: **2/25/2015** SeqNo: **252174**

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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCV-8958** SampType: **CCV** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCV** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251786**

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	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)anthracene	134	6.67	133.3	0	100	80	120				
Indeno(1,2,3-cd)pyrene	134	6.67	133.3	0	101	80	120				

Sample ID: **MB-8958** SampType: **MBLK** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **PBS** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	7.44		6.667		112	42.6	128				

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 recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **MB-8958**	SampType: **MBLK**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **PBS**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	7.73		6.667		116	21.7	155				
Surr: p-Terphenyl-d14	8.51		6.667		128	44.9	155				

Sample ID: **LCS-8958**	SampType: **LCS**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **LCSS**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251788**

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: **MS**	TestCode: **PAHLL_S**	Units: **µg/Kg-dry**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **TP04-S1-10.5**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251795**

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 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 recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **1502185-003AMS** SampType: **MS** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **TP04-S1-10.5** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251795**

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** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **TP04-S1-10.5** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251796**

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	298	8.44	421.6	0	70.7	27.7	108	296.1	0.617	20	
Benz(a)anthracene	403	8.44	421.6	1.880	95.1	63.4	121	417.3	3.53	20	
Benzo(a)pyrene	457	8.44	421.6	1.499	108	64.6	110	457.9	0.270	20	
Benzo(b)fluoranthene	467	8.44	421.6	1.372	111	41.6	172	485.3	3.74	20	
Benzo(k)fluoranthene	452	8.44	421.6	0.4924	107	47.9	140	438.8	2.98	20	
Chrysene	365	8.44	421.6	1.471	86.3	37.5	125	380.0	3.93	20	
Dibenz(a,h)anthracene	397	8.44	421.6	0	94.2	23.6	125	398.3	0.240	20	
Indeno(1,2,3-cd)pyrene	401	8.44	421.6	0	95.0	26.8	133	392.7	1.97	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502185**

05-Mar-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCV-8958** SampType: **CCV** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCV** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/24/2015** SeqNo: **251958**

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: **CCB** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCB** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/24/2015** SeqNo: **251959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	6.74		6.667		101	42.6	128				

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 recov

QC SUMMARY REPORT

WO#: **1502185**

Specialty Analytical

05-Mar-15

Client: Maul Foster & Alongi

Project: 32nd St Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCB-8958**	SampType: **CCB**	TestCode: **PAHLL_S**	Units: **µg/Kg**		Prep Date:				RunNo: **18972**		
Client ID: **CCB**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**		Analysis Date: **2/24/2015**				SeqNo: **251959**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	6.67		6.667		100	21.7	155				
Surr: p-Terphenyl-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
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recov

KEY TO FLAGS

Rev. May 12, 2010

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 OF CUSTODY RECORD

Specialty Analytical
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Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: Alan Hughes
Company: Mull Foster & Alongi
Address: 4400 E Mill Plain Blvd
Vancouver, WA
Phone: _____ Fax: _____
Project No. 0564.02.03 Project Name 32nd St Remedial Adm.
Project Site Location OR ____ WA ✓ Other ____
Invoice To _____ P.O. No. _____

Collected By:
Signature: Zach C Pyle
Printed: ZACHARY PYLE

Signature: _____
Printed: _____

Turn Around Time
☐ Normal 5-7 Business Days
☑ Rush 48-hr
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 1502185
Shipped Via Specialty
Air Bill No. _____
Temperature On Receipt 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: NWTPH-Dx	cPAH	NWTPH-Gx	8260	Comments	Lab I.D.
2/19/15	13:58	TP04-W2-11.0	S	2	x	x	x	x	"W1" does not exist	
	12:05	TP04-E1-9.5	S	5	x	x	x	x	5035 Prep provided	
	14:12	TP04-S1-10.5	S	5	x	x	x	x		
	12:15	TP04-N1-10.0	S	5	x	x	x	x		
	14:20	TP04-B1-15.0	S	5	x	x	x	x		
	15:25	TP03-E1-1.0	S	1	x					
	15:20	TP03-N1-1.0	S	1	x					
	15:15	TP03-B1-1.5	S	1	x					
	15:35	TP03-W1-1.0	S	1	x					
	15:30	TP03-S1-1.0	S	1	⊗					

Relinquished By	Date	Time	Received By	Relinquished By	Date	Time
Company: MFA	2/19/15	1030	Company: GA	Company:	2/20/15	1505

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: Cindy Hillyard
Date: 2/20/15
Time: 15:05

Specialty Analytical

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

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 Remedial Action / 0564.02.03
Lab ID: 1502199-001
Client Sample ID: TP01-S2-10.0
Matrix: SOIL

Analyses	Result	RL	Qual	Unit	DF	Date Analyzed
NWTPH-DX		**NWTPH-DX**				Analyst: **BS**
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: **bda**
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: **BS**
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: **bda**
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

QC SUMMARY REPORT

WO#: **1502199**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode:** **NWTPHDX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19010**
Client ID: **CCV**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/24/2015**	SeqNo: **252278**

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				
Lube Oil	425	50.0	499.5	0	85.1	85	115				

Sample ID: **MB-8963**	SampType: **MBLK**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/23/2015**	RunNo: **19010**
Client ID: **PBS**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/24/2015**	SeqNo: **252279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	29.9		33.33		89.7	50	150				

Sample ID: **LCS-8963**	SampType: **LCS**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date: **2/23/2015**	RunNo: **19010**
Client ID: **LCSS**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/24/2015**	SeqNo: **252280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	141	15.0	166.7	0	84.4	76.3	125				
Lube Oil	142	50.0	166.7	0	85.3	69.9	127				

Sample ID: **1502199-002ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/23/2015**	RunNo: **19010**
Client ID: **TP01-B2-17.0**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/24/2015**	SeqNo: **252283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502199**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: NWTPHDX_S**

Sample ID: **1502199-002ADUP**	SampType: **DUP**	TestCode: **NWTPHDX_S**	Units: **mg/Kg-dry**	Prep Date: **2/23/2015**	RunNo: **19010**
Client ID: **TP01-B2-17.0**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/24/2015**	SeqNo: **252283**

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: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19010**
Client ID: **CCV**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/25/2015**	SeqNo: **252285**

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 Oil	161	50.0	166.5	0	97.0	85	115				
Lube Oil	437	50.0	499.5	0	87.5	85	115				

Sample ID: **CCB**	SampType: **CCB**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19010**
Client ID: **CCB**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/25/2015**	SeqNo: **252286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	15.0									
Hydraulic Oil	ND	50.0									
Lube Oil	ND	50.0									
Surr: o-Terphenyl	30.5		33.30		91.5	50	150				

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 recov

QC SUMMARY REPORT

WO#: **1502199**

Specialty Analytical

25-Feb-15

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: NWTPHDX_S**

Sample ID: **CCV**	SampType: **CCV**	TestCode: **NWTPHDX_S**	Units: **mg/Kg**	Prep Date:	RunNo: **19010**
Client ID: **CCV**	Batch ID: **8963**	TestNo: **NWTPH-Dx**	**SW3545A**	Analysis Date: **2/25/2015**	SeqNo: **252289**

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	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recov

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCV-8958** SampType: **CCV** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCV** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251786**

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	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)anthracene	134	6.67	133.3	0	100	80	120				
Indeno(1,2,3-cd)pyrene	134	6.67	133.3	0	101	80	120				

Sample ID: **MB-8958** SampType: **MBLK** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **PBS** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	7.44		6.667		112	42.6	128				

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 recov

QC SUMMARY REPORT

WO#: **1502199**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **MB-8958**	SampType: **MBLK**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **PBS**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	7.73		6.667		116	21.7	155				
Surr: p-Terphenyl-d14	8.51		6.667		128	44.9	155				

Sample ID: **LCS-8958**	SampType: **LCS**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **LCSS**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251788**

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: **MS**	TestCode: **PAHLL_S**	Units: **µg/Kg-dry**	Prep Date: **2/23/2015**	RunNo: **18972**
Client ID: **ZZZZZZ**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/23/2015**	SeqNo: **251795**

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 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 recov

QC SUMMARY REPORT

WO#: **1502199**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode:** **PAHLL_S**

Sample ID: **1502185-003AMS** SampType: **MS** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **ZZZZZZ** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251795**

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** TestCode: **PAHLL_S** Units: **µg/Kg-dry** Prep Date: **2/23/2015** RunNo: **18972**

Client ID: **ZZZZZZ** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/23/2015** SeqNo: **251796**

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	298	8.44	421.6	0	70.7	27.7	108	296.1	0.617	20	
Benz(a)anthracene	403	8.44	421.6	1.880	95.1	63.4	121	417.3	3.53	20	
Benzo(a)pyrene	457	8.44	421.6	1.499	108	64.6	110	457.9	0.270	20	
Benzo(b)fluoranthene	467	8.44	421.6	1.372	111	41.6	172	485.3	3.74	20	
Benzo(k)fluoranthene	452	8.44	421.6	0.4924	107	47.9	140	438.8	2.98	20	
Chrysene	365	8.44	421.6	1.471	86.3	37.5	125	380.0	3.93	20	
Dibenz(a,h)anthracene	397	8.44	421.6	0	94.2	23.6	125	398.3	0.240	20	
Indeno(1,2,3-cd)pyrene	401	8.44	421.6	0	95.0	26.8	133	392.7	1.97	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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recov

QC SUMMARY REPORT

WO#: **1502199**

25-Feb-15

Specialty Analytical

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCV-8958** SampType: **CCV** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCV** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/24/2015** SeqNo: **251958**

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: **CCB** TestCode: **PAHLL_S** Units: **µg/Kg** Prep Date: RunNo: **18972**

Client ID: **CCB** Batch ID: **8958** TestNo: **SW8270D** **SW 3545A** Analysis Date: **2/24/2015** SeqNo: **251959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	6.67									
2-Methylnaphthalene	ND	6.67									
Benz(a)anthracene	ND	6.67									
Benzo(a)pyrene	ND	6.67									
Benzo(b)fluoranthene	ND	6.67									
Benzo(k)fluoranthene	ND	6.67									
Chrysene	ND	6.67									
Dibenz(a,h)anthracene	ND	6.67									
Indeno(1,2,3-cd)pyrene	ND	6.67									
Surr: 2-Fluorobiphenyl	6.74		6.667		101	42.6	128				

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 recov

QC SUMMARY REPORT

WO#: **1502199**

Specialty Analytical

25-Feb-15

Client: Maul Foster & Alongi

Project: 32nd Street Remedial Action / 0564.02.03 **TestCode: PAHLL_S**

Sample ID: **CCB-8958**	SampType: **CCB**	TestCode: **PAHLL_S**	Units: **µg/Kg**	Prep Date:	RunNo: **18972**
Client ID: **CCB**	Batch ID: **8958**	TestNo: **SW8270D**	**SW 3545A**	Analysis Date: **2/24/2015**	SeqNo: **251959**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	6.67		6.667		100	21.7	155				
Surr: p-Terphenyl-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
O	RSD is greater than RSDlimit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recov

KEY TO FLAGS

Rev. May 12, 2010

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 OF CUSTODY RECORD

Specialty Analytical
11711 SE Capps Road
Clackamas, OR 97015
Phone: 503-607-1331
Fax: 503-607-1336

Contact Person/Project Manager: Alan Hughes
Company: Maul Foster & Alongi
Address: 400 E. Mill Plain Blvd.

Phone: _____ Fax: _____

Project No. 0564.02.03 Project Name: 32nd St. Remedial Action

Project Site Location OR: _____ WA: ✓ Other: _____

Invoice To: _____ P.O. No.: _____

Collected By:
Signature: Zach C Pyle
Printed: ZACHARY PYLE

Signature: _____
Printed: _____

Turn Around Time
☐ Normal 5-7 Business Days
☑ Rush 48-hr
Specify
Rush Analyses Must Be Scheduled With The Lab In Advance

For Laboratory Use
Lab Job No. 1502199
Shipped Via: Specialty
Air Bill No.: _____
Temperature On Receipt: 4 °C
Specialty Analytical Containers? Y / N
Specialty Analytical Trip Blanks? Y / N

Date	Time	Sample I.D.	Matrix	No. of Containers	Analyses: NWTPH-Dx	Analyses: cPAH	Comments	Lab I.D.
2/20/15	13:20	TP01-S2-10.0	S	1	x	x		
2/20/15	10:55	TP01-B2-17.0	S	1	x	x		

Relinquished By: Tony Silva
Company: Maul Foster Alongi Inc
Date: 2/23/15 Time: 1115

Received By:
Company:

Relinquished By:
Company:
Date: 2/23/15 Time: 1205

Unless Reclaimed, Samples Will Be Disposed of 60 Days After Receipt.
Samples held beyond 60 days subject to storage fee(s)

Received For Lab By: NIKKI DIPPEL
Date: 2/23/15 Time: 1205

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 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

WASTE MANAGEMENT

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

Original
Ticket# 1368612

515.99 TON

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 95
Container
Driver josh
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:19:27	Inbound 2	jrichards		Gross	84000 lb
Out	02/18/2015 09:32:02	Outbound	jdb		Tare	38500 lb
					Net	45500 lb
					Tons	22.75

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		22.75	Tons	22.50		$511.88	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$89.58	CLARK

Total Tax
Total Ticket $601.46

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368673

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 14:51:54	Inbound_1	sdm		Gross	101280 lb
Out	02/18/2015 14:51:54		sdm		Tare	41260 lb
					Net	60020 lb
					Tons	30.01

Comments

Consumer Comments? We want to know. Please call.

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

Total Tax
Total Ticket $793.40

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368672

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
PO 15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 853
Container
Driver Rick
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

Grid

	Time	Scale	Operator
In	02/18/2015 14:27:54	Inbound_1	sdm
Out	02/18/2015 14:27:54		sdm

Inbound

Gross	92140 lb
Tare	38020 lb
Net	54120 lb
Tons	27.06

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	27.06	Tons	22.50		$608.85	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$106.55	CLARK

PDB

Total Tax
Total Ticket $715.40

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368606

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	McDe	
Ticket Date	02/18/2015	Vehicle#	853	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	rick	
Hauling Ticket#		Check#		
Route		Billing #	0002573	
State Waste Code		Gen EPA ID	N/A	
Manifest	na			
Destination		Grid		
PO	15008			
Profile	117563OR (DIRT WITH GRAVEL)			
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC			

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:11:18	Inbound_1	jdb		Gross	102340 lb
Out	02/18/2015 09:25:46	Outbound	jdb		Tare	38040 lb
					Net	64300 lb
					Tons	32.15

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	32.15	Tons	22.50		$723.38	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$126.59	CLARK

Total Tax
Total Ticket $849.97

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368641

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 853
Container
Driver Rick
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

Grid

	Time	Scale	Operator
In	02/18/2015 11:48:54	Inbound_1	sdm
Out	02/18/2015 11:48:54		sdm

Inbound

Gross	108620 lb
Tare	38020 lb
Net	70600 lb
Tons	35.30

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		35.30	Tons	22.50		$794.25	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$138.99	CLARK

Total Tax
Total Ticket $933.24

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368620

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
PO 15000
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 109
Container
Driver tory
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:43:56	Inbound_1	jdb		Gross	101220 lb
Out	02/18/2015 10:00:14	Outbound	jdb		Tare	41080 lb
					Net	60140 lb
					Tons	30.07

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	30.07	Tons	22.50		$676.58	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$118.40	CLARK

Total Tax
Total Ticket $794.98

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368608

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
PO 15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver mike
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:13:14	Inbound_1	jdb		Gross	108100 lb
Out	02/18/2015 09:29:58	Outbound	jdb		Tare	41260 lb
					Net	66840 lb
					Tons	33.42

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		33.42	Tons	22.50		$751.95	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$131.59	CLARK

Total Tax
Total Ticket $883.54

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368647

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 94
Container
Driver mATT
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

Grid

	Time	Scale	Operator
In	02/18/2015 12:09:23	Inbound_1	sdm
Out	02/18/2015 12:09:23		sdm

Inbound

Gross	87300 lb
Tare	39100 lb
Net	48200 lb
Tons	24.10

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	24.10	Tons	22.50		$542.25	CLARK
2	17.5% FEA-17.5% FE	100			17.50		$94.89	CLARK

Total Tax
Total Ticket $637.14

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368615

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
PO 15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC,GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 94
Container
Driver
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:25:27	Inbound_1	jdb		Gross	84280 lb
Out	02/18/2015 09:39:54	Outbound	jdb		Tare	39100 lb
					Net	45180 lb
					Tons	22.59

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		22.59	Tons	22.50		$508.28	CLARK
2	17.5% FEA-17.5% FE 100*			%	17.50		$88.95	CLARK

Total Tax
Total Ticket $597.23

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368605

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
PO 15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 6035
Container
Driver andy
Check#
Billing # 0002573
Gen EPA ID N/A

Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 08:57:12	Inbound 2	jrichards		Gross	93240 lb
Out	02/18/2015 09:11:59	Outbound	jdb		Tare	40720 lb
					Net	52520 lb
					Tons	26.26

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	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

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368669

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
PO 08 MP15008 ESZ
Profile 117563OR (DIRT WITH GRAVEL) 303724
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 6035
Container
Driver andy
Check#
Billing # 0002573
Gen EPA ID N/A

2-19-14 Grid 6,30 D

Volume

	Time	Scale	Operator	Inbound	Gross	96740 lb
In	02/18/2015 14:16:27	Inbound 2	jrichards		Tare	40720 lb
Out	02/18/2015 14:16:27		jrichards		Net	56020 lb
					Tons	28.01

Comments

Consumer Comments? We want to know. Please call.
10547

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS To 100		28.01	Tons	22.50		$630.23	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$110.29	CLARK

303724

Total Tax
Total Ticket $740.52

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368639

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
PO 06 mpc15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 6035
Container
Driver andy
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

2-19-10 Grid

	Time	Scale	Operator
In	02/18/2015 11:32:36	Inbound_1	sdm
Out	02/18/2015 11:32:36		sdm
			* Manual Weight

	Inbound
Gross	108580 lb*
Tare	40720 lb*
Net	67860 lb
Tons	33.93

Comments

Consumer Comments? We want to know. Please call.

	Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		33.93	Tons	22.50		$763.43	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$133.60	

Total Tax
Total Ticket $897.03

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368618

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/18/2015	Vehicle#	007
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	joe
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	1175630R (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:38:01	Inbound 2	jrichards		Gross	101700 lb
Out	02/18/2015 09:49:57	Outbound	jdb		Tare	37700 lb
					Net	64000 lb
					Tons	32.00

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	32.00	Tons	22.50		$720.00	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$126.00	CLARK

Total Tax
Total Ticket $846.00

Driver's Signature

2020-401

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368645

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/18/2015	Vehicle#	007 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Joe
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	NA		
Destination		Grid	
PO	15000		
Profile	117563OR (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

	Time	Scale	Operator	Inbound		
In	02/18/2015 12:03:18	Inbound_1	sdm		Gross	94280 lb
Out	02/18/2015 12:03:18		sdm		Tare	37700 lb
					Net	56580 lb
					Tons	28.29

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	~~Qty~~	UOM	~~Rate~~	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		28.29	Tons	22.50		$636.53	CLARK
2	17.5% FEA-17.5% FE 100			~~%~~	17.50		$111.39	CLARK

Total Tax
Total Ticket $747.92

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368642

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
PO 15000
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 11:51:20	Inbound_i	sdm		Gross	100300 lb
Out	02/18/2015 11:51:20		sdm		Tare	41260 lb
					Net	59040 lb
					Tons	29.52

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	29.52	Tons	22.50		$664.20	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$116.24	CLARK

Total Tax
Total Ticket $780.44

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368651

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 109
Container
Driver tory
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 12:21:55	Inbound 2	jdb		Gross	98740 lb
Out	02/18/2015 12:21:55		jdb		Tare	41080 lb
					Net	57660 lb
					Tons	28.83

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		28.83	Tons	22.50		$648.68	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$113.52	CLARK

Total Tax
Total Ticket $762.20

nature

WASTE MANAGEMENT

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

Original
Ticket# 1368801

734.02 Ton

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/19/2015	Vehicle#	14 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Larry
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	117563OR (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

	Time	Scale	Operator	Inbound		
In	02/19/2015 14:40:24	Inbound_1	jrichards		Gross	94960 lb
Out	02/19/2015 14:40:24		jrichards		Tare	42220 lb
					Net	52740 lb
					Tons	26.37

Comments

Consumer Comments? We want to know. Please call.

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	26.37	Tons	22.50		$593.33	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$103.83	CLARK

Total Tax
Total Ticket $697.16

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368767

PKO HILLSBORO

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	RESLEFF
Ticket Date	02/19/2015	Vehicle#	94
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	matt
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	1175630R (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 12:40:10	Inbound_1	jdb		Gross	68740 lb
Out	02/19/2015 12:40:10		jdb		Tare	39100 lb
					Net	29640 lb
					Tons	14.82

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	14.82	Tons	22.50		$333.45	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$58.35	CLARK

Total Tax
Total Ticket $391.80

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368734

694.51 Ton

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	RESLEFF
Ticket Date	02/19/2015	Vehicle#	94
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	matt
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	117563OR (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:42:39	Inbound_1	sreece		Gross	89200 lb
Out	02/19/2015 09:42:39		sreece		Tare	39100 lb
					Net	50100 lb
					Tons	25.05

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	25.05	Tons	22.50		$563.63	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$98.64	CLARK

Total Tax
Total Ticket $662.27

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368789

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC-GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 14:18:59	Inbound 2	jdb		Gross	108960 lb
Out	02/19/2015 14:18:59		jdb		Tare	41260 lb
					Net	67700 lb
					Tons	33.85

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	33.85	Ton	22.50		$761.62	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$133.28	CLARK

Total Tax
Total Ticket $894.90

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368723

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:09:38	Inbound 2	jrichards		Gross	103640 lb
Out	02/19/2015 09:09:38		jrichards		Tare	41260 lb
					Net	62380 lb
					Tons	31.19

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	31.19	Tons	22.50		$701.78	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$122.81	CLARK

Total Tax
Total Ticket $824.59

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368756

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 854
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

	Time	Scale	Operator	Inbound
In	02/19/2015 11:46:48	Inbound_1	jdb	
Out	02/19/2015 11:46:48		jdb	

Gross	107800 lb
Tare	41260 lb
Net	66540 lb
Tons	33.27

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	33.27	Tons	22.50		$748.58	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$131.00	

Total Tax
Total Ticket $879.58

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368717

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 6035
Container
Driver andy
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 08:54:52	Inbound_1	sreece		Gross	100460 lb
Out	02/19/2015 08:54:52		sreece		Tare	40720 lb
					Net	59740 lb
					Tons	29.87

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		29.87	Tons	22.50		$672.00	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$117.61	

Total Tax
Total Ticket $789.69

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368752

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 6035
Container
Driver andy
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 11:29:11	Inbound_1	jdb		Gross	103500 lb
Out	02/19/2015 11:29:11		jdb		Tare	40720 lb
					Net	62780 lb
					Tons	31.39

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		31.39	Tons	22.50		$706.28	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$123.60	CLARK

Total Tax
Total Ticket $829.88

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368786

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	McDe	
Ticket Date	02/19/2015	Vehicle#	6035	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	andy	
Hauling Ticket#		Check#		
Route		Billing #	0002573	
State Waste Code		Gen EPA ID	N/A	
Manifest	na			
Destination		Grid		
PO	15008			
Profile	117563OR (DIRT WITH GRAVEL)			
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC			

	Time	Scale	Operator	Inbound		
In	02/19/2015 14:14:01	Inbound 2	jdb		Gross	94460 lb
Out	02/19/2015 14:14:01		jdb		Tare	40720 lb
					Net	53740 lb
					Tons	26.87

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		26.87	Tons	22.50		$604.58	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$105.80	CLARK

Total Tax
Total Ticket $710.38

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368758

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	CSI		
Ticket Date	02/19/2015	Vehicle#	108	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	roger		
Hauling Ticket#		Check#			
Route		Billing #	0002573		
State Waste Code		Gen EPA ID	N/A		
Manifest	na				
Destination		Grid			
PO	15008				
Profile	117563OR (DIRT WITH GRAVEL)				
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC				

	Time	Scale	Operator	Inbound		
In	02/19/2015 11:54:44	Inbound 2	sreece		Gross	88540 lb*
Out	02/19/2015 11:54:44		sreece		Tare	38480 lb*
			* Manual Weight		Net	50060 lb
					Tons	25.03

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	25.03	Tons	22.50		$563.18	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$98.56	CLARK

Total Tax
Total Ticket $661.74

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368730

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	CSI		
Ticket Date	02/19/2015	Vehicle#	108	Volume	
Payment Type	Credit Account	Container			
Manual Ticket#		Driver	roger		
Hauling Ticket#		Check#			
Route		Billing #	0002573		
State Waste Code		Gen EPA ID	N/A		
Manifest	NA				
Destination		Grid			
PO	15008				
Profile	117563OR (DIRT WITH GRAVEL)				
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC				

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:23:19	Inbound 2	jrichards		Gross	85940 lb
Out	02/19/2015 09:38:15	Outbound	sreece		Tare	38460 lb
					Net	47480 lb
					Tons	23.74

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	23.74	Tons	22.50		$534.15	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$93.48	CLARK

Total Tax
Total Ticket $627.63

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368688

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 109
Container
Driver tory
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 06:23:42	Inbound_1	sreece		Gross	104100 lb
Out	02/19/2015 06:23:42		sreece		Tare	41080 lb
					Net	63100 lb
					Tons	31.55

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	31.55	Tons	22.50		$709.88	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$124.23	CLARK

Total Tax
Total Ticket $834.11

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368736

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC-GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 109
Container
Driver tory
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

Grid

	Time	Scale	Operator
In	02/19/2015 09:53:33	Inbound 2	jrichards
Out	02/19/2015 09:53:33		jrichards

Inbound

Gross	100260 lb
Tare	41080 lb
Net	59180 lb
Tons	29.59

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	29.59	Tons	22.50		$665.78	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$116.51	CLARK

Total Tax
Total Ticket $782.29

Driver's Signature

WASTE MANAGEMENT

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

Original
Ticket# 1368682

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 95
Container
Driver josh
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 06:05:19	Inbound_1	sreece		Gross	88300 lb
Out	02/19/2015 06:05:19		sreece		Tare	38500 lb
					Net	49800 lb
					Tons	24.90

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	24.90	Tons	22.50		$560.25	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$98.04	CLARK

Total Tax
Total Ticket $658.29

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368731

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 95
Container
Driver josh
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:27:41	Inbound 2	jrichards		Gross	81680 lb
Out	02/19/2015 09:27:41		jrichards		Tare	38500 lb
					Net	43180 lb
					Tons	21.59

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	21.59	Tons	22.50		$485.78	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$85.01	

Total Tax
Total Ticket $570.79

J Strong

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368760

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	RESLEFF
Ticket Date	02/19/2015	Vehicle#	95
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	josh
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	1175630R (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 11:57:46	Inbound 2	sreece		Gross	79280 lb
Out	02/19/2015 11:57:46		sreece		Tare	38500 lb
					Net	40780 lb
					Tons	20.39

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	20.39	Tons	22.50		$458.78	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$80.29	CLARK

Total Tax
Total Ticket $539.07

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368757

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier WEST COAST DUMP TRUCKS
Vehicle# 14
Container
Driver Larry
Check#
Billing # 0002573
Gen EPA ID N/A
Grid
Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 11:53:40	Inbound_1	jdb		Gross	98840 lb
Out	02/19/2015 11:53:40		jdb		Tare	42220 lb
					Net	56620 lb
					Tons	28.31

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	28.31	Tons	22.50		$636.98	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$111.47	CLARK

Total Tax
Total Ticket $748.45

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368727

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/19/2015	Vehicle#	14 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Larry
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	117563OR (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC	GEORGE SCHMIDT & SONS, INC	

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:16:35	Inbound_1	sreece		Gross	88000 lb
Out	02/19/2015 09:17:43	Inbound_1	sreece		Tare	42220 lb*
			* Manual Weight		Net	45780 lb
					Tons	22.89

Comments 1368727 22.89 Dirt 33rd Washougal Hillsboro Landfill

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	22.89	Tons	22.50		$515.03	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$90.13	CLARK

Total Tax
Total Ticket $605.16

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368681

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier WEST COAST DUMP TRUCKS
Vehicle# 007 Volume
Container
Driver Joe
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

	Time	Scale	Operator	Inbound		
In	02/19/2015 06:03:39	Inbound_1	sreece		Gross	93340 lb
Out	02/19/2015 06:03:39		sreece		Tare	37700 lb
					Net	55640 lb
					Tons	27.82

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	27.82	Tons	22.50		$625.95	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$109.54	CLARK

Total Tax
Total Ticket $735.49

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368732

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier WEST COAST DUMP TRUCKS
Vehicle# 007 Volume
Container
Driver Joe
Check#
Billing # 0002573
Gen EPA ID N/A

Grid

	Time	Scale	Operator
In	02/19/2015 09:30:43	Inbound_1	sreece
Out	02/19/2015 09:30:43		sreece

Inbound

Gross	84640 lb
Tare	37700 lb
Net	46940 lb
Tons	23.47

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	23.47	Tons	22.50		$528.08	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$92.41	CLARK

Total Tax
Total Ticket $620.49

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368772

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/19/2015	Vehicle#	007 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Joe
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	1175630R (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

	Time	Scale	Operator	Inbound		
In	02/19/2015 13:26:42	Inbound 2	jdb		Gross	94460 lb
Out	02/19/2015 13:26:42		jdb		Tare	37700 lb
					Net	56760 lb
					Tons	28.38

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		28.38	Tons	22.50		$638.55	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$111.75	CLARK

Total Tax
Total Ticket $750.30

Driver's Signature

403WM

WASTE MANAGEMENT

Hillsboro Land [illegible] Inc
3205 SE Minter [illegible]e
Hillsboro, OR, 97123
Ph: (503)-640-9427

Original
Ticket# 1368722

Customer Name	MCDONALDEXC McDonald Excavati	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 Code		Gen EPA ID	N/A		
Manifest	na				
Destination		Grid			
PO	15008				
Profile	1175630R (DIRT WITH GRAVEL)				
Generator	OR-GEORGE SCHMIDT AND SONS INC-GEORGE SCHMIDT & SONS, INC				

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:09:36	Inbound_1	sreece		Gross	91740 lb
Out	02/19/2015 09:09:36		sreece		Tare	38020 lb
					Net	53720 lb
					Tons	26.86

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	26.86	Tons	22.50		$604.35	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$105.76	CLARK

Total Tax
Total Ticket $710.11

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368753

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest na
Destination
PO 15000
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 853
Container
Driver Rick
Check#
Billing # 0002573
Gen EPA ID N/A

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 11:33:31	Inbound_1	jdb		Gross	94880 lb
Out	02/19/2015 11:33:31		jdb		Tare	38020 lb
					Net	56860 lb
					Tons	28.43

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	28.43	Tons	22.50		$639.68	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$111.94	

RDB

Total Tax
Total Ticket $751.62

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368783

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier McDe
Vehicle# 053
Container
Driver Rick
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 14:09:53	Inbound_1	jrichards		Gross	90700 lb
Out	02/19/2015 14:09:53		jrichards		Tare	38020 lb
					Net	52680 lb
					Tons	26.34

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	26.34	Tons	22.50		$592.65	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$103.71	CLARK

PDB-9

Total Tax
Total Ticket $696.36

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368802

Customer Name MCDONALDEXC McDonald Excavati
Ticket Date 02/19/2015
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 INC GEORGE SCHMIDT & SONS, INC

Carrier CSI
Vehicle# 108
Container
Driver roger
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 14:52:01	Inbound 2	jdb		Gross	51180 lb
Out	02/19/2015 15:06:12	Outbound	jrichards		Tare	24900 lb
					Net	26280 lb
					Tons	13.14

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		13.14	Tons	22.50		$295.65	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$51.74	CLARK

Total Tax
Total Ticket $347.39

Driver's Signature

403WM

WASTE MANAGEMENT

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

Original
Ticket# 1368644

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
PO 15008
Profile 117563OR (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier RESLEFF
Vehicle# 95
Container
Driver josh
Check#
Billing # 0002573
Gen EPA ID N/A
Grid

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 12:01:57	Inbound 2	jdb		Gross	85280 lb
Out	02/18/2015 12:01:57		jdb		Tare	38500 lb
					Net	46780 lb
					Tons	23.39

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To 100		23.39	Tons	22.50		$526.28	CLARK
2	17.5% FEA-17.5% FE 100			%	17.50		$92.10	CLARK

J Stang

Total Tax
Total Ticket $618.38

Driver's Signature

403WM

WASTE MANAGEMENT

Hillsboro, OR, 97123
Ph: (503)-640-9427

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/19/2015	Vehicle#	107 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Mike
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	117563OR (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

	Time	Scale	Operator	Inbound		
In	02/19/2015 06:11:28	Inbound_1	sreece		Gross	102040 lb
Out	02/19/2015 06:11:28		sreece		Tare	37100 lb
					Net	64940 lb
					Tons	32.47

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	32.47	Tons	22.50		$730.58	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$127.85	CLARK

Total Tax
Total Ticket $858.43

Driver's Signature

403WM

WASTE MANAGEMENT

Hillsboro, OR, 97123
Ph: (503)-640-9427

Customer Name	MCDONALDEXC McDonald Excavati	Carrier	WEST COAST DUMP TRUCKS
Ticket Date	02/19/2015	Vehicle#	107 Volume
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	Mike
Hauling Ticket#		Check#	
Route		Billing #	0002573
State Waste Code		Gen EPA ID	N/A
Manifest	na		
Destination		Grid	
PO	15008		
Profile	1175630R (DIRT WITH GRAVEL)		
Generator	OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC		

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:39:27	Inbound_1	sreece		Gross	89620 lb
Out	02/19/2015 09:39:27		sreece		Tare	37100 lb
					Net	52520 lb
					Tons	26.26

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	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

WASTE MANAGEMENT

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

Ticket# 1000703

Customer Name MCDONALDEXC McDonald Excavati
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 WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

Carrier WEST COAST DUMP TRUCKS
Vehicle# 107 Volume
Container
Driver Mike
Check#
Billing # 0002573
Gen EPA ID N/A

Grid

	Time	Scale	Operator	Inbound		
In	02/19/2015 12:25:20	Inbound_1	jdb		Gross	77460 lb
Out	02/19/2015 12:25:20		jdb		Tare	37100 lb
					Net	40360 lb
					Tons	20.18

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	20.18	Tons	22.50		$454.05	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$79.46	CLARK

Total Tax
Total Ticket $533.51

Driver's Signature

03WM

WASTE MANAGEMENT

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

Original
Ticket# 1368862

33.74 Ton

Customer Name MCDONALDEXC McDonald Excavati Carrier McDe
Ticket Date 02/20/2015 Vehicle# 853 Volume
Payment Type Credit Account Container
Manual Ticket# Driver Rick
Hauling Ticket# Check#
Route Billing # 0002573
State Waste Code Gen EPA ID N/A
Manifest na
Destination Grid
PO 15008
Profile 1175630R (DIRT WITH GRAVEL)
Generator OR-GEORGE SCHMIDT AND SONS INC GEORGE SCHMIDT & SONS, INC

	Time	Scale	Operator	Inbound		
In	02/20/2015 11:53:58	Inbound_1	jdb		Gross	105500 lb
Out	02/20/2015 11:53:58		jdb		Tare	38020 lb
					Net	67480 lb
					Tons	33.74

Comments

Consumer Comments? We want to know. Please call.

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Daily Cover-PCS-To	100	33.74	Tons	22.50		$759.15	CLARK
2	17.5% FEA-17.5% FE	100		%	17.50		$132.85	

PD Bond

Total Tax
Total Ticket $892.00

Driver's Signature

403WM

APPENDIX G

GROUNDWATER MONITORING PLAN

MAUL FOSTER ALONGI
400 East Mill Plain Blvd., Suite 400 | Vancouver, WA 98660 | 360 694 2691 | www.maulfoster.com

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

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 SCHEDULE

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.

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.

FIGURE

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

32nd 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

0 20 40
Feet

Source: Aerial photograph obtained from Esri ArcGIS Online

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Path: X:\0564.02 ACP\0104\Projects\Fig_Monitoring Well Locations and Potentiometric Groundwater Surface_July 2014.mxd
Project: 564.02.01-04 Produced By: jschane Approved By: jpounds Print Date: 4/27/2015

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

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

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.

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. Carolyn A. Simms PO Box 169 Washougal, WA 98671 (360) 833-2174	Environmental Covenants Coordinator Washington State Department of Ecology Toxics Cleanup Program P.O. Box 47600 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.

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___.

Carolyn Simms
Schmid Family Limited Partnership I

Signature: _____
Manager

Dated: _____

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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

[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"

14586LD2rev
7-20-09
mjf

www.mackaysposito.com

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 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, 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 Peter 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 32nd Street; thence continuing North 88°18'19" West along said North line a distance of 158.98 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

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 corner 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 corner of said Emma M. Schmid tract; thence North 24°04'45" East along the east line of said Schmid tract a distance of 236.61 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 32nd 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.

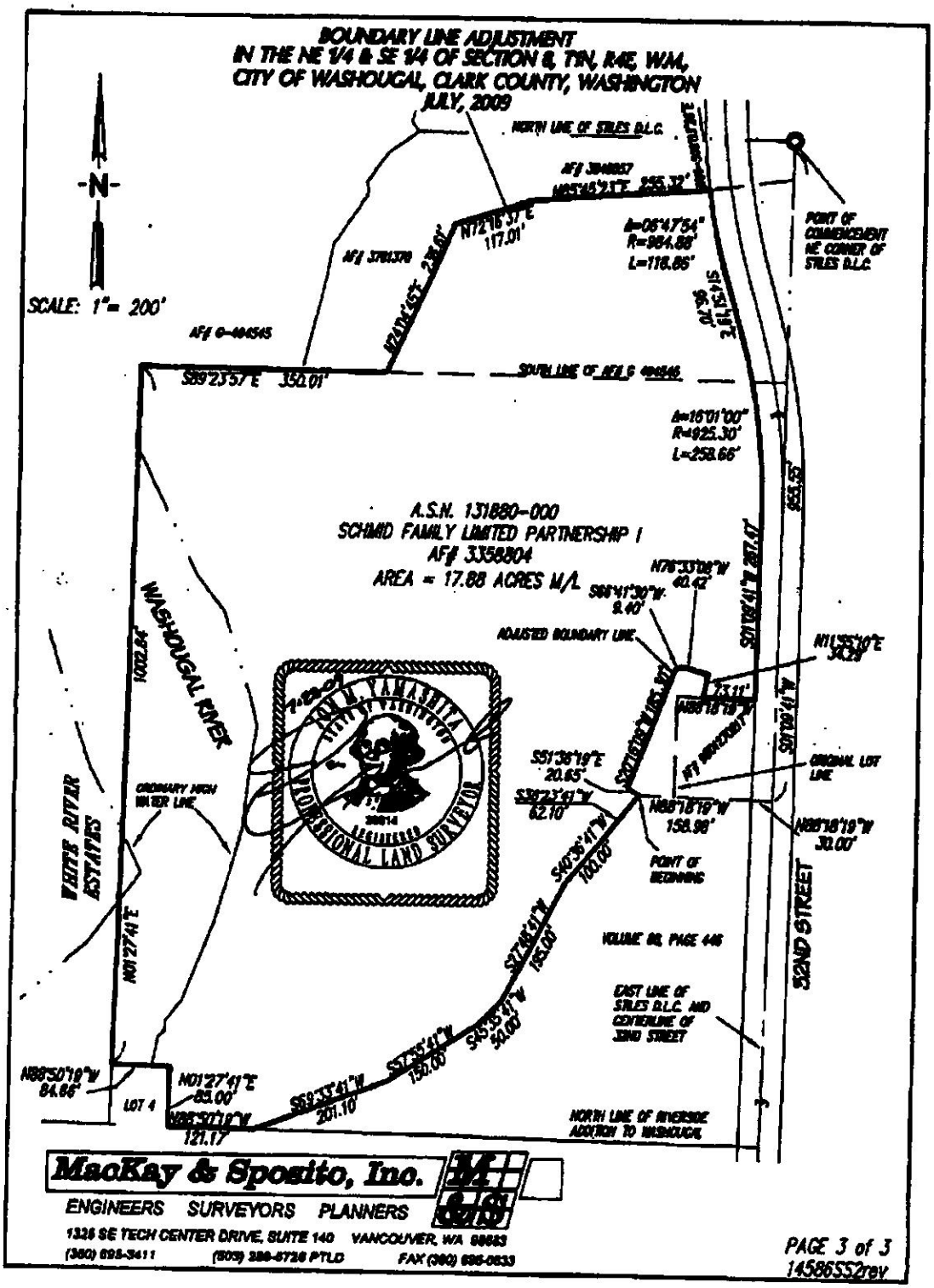
BOUNDARY LINE ADJUSTMENT
IN THE NE 1/4 & SE 1/4 OF SECTION 8, T1N, R4E, WM,
CITY OF WASHOUGAL, CLARK COUNTY, WASHINGTON
JULY, 2009
SCALE: 1"= 200'
A.S.N. 131880-000
SCHMID FAMILY LIMITED PARTNERSHIP I
AF# 3358804
AREA = 17.88 ACRES M/L
WASHOUGAL RIVER
WHITE RIVER ESTATES
ORDINARY HIGH WATER LINE
ADJUSTED BOUNDARY LINE
ORIGINAL LOT LINE
POINT OF BEGINNING
POINT OF COMMENCEMENT NE CORNER OF STILES D.L.C.
EAST LINE OF STILES D.L.C. AND CENTERLINE OF 32ND STREET
NORTH LINE OF RIVERSIDE ADDITION TO WASHOUGAL
VOLUME 80, PAGE 446
LOT 4
32ND STREET
KURT H. YAMASHITA
PROFESSIONAL LAND SURVEYOR
MacKay & Sposito, Inc.
ENGINEERS SURVEYORS PLANNERS
1326 SE TECH CENTER DRIVE, SUITE 140 VANCOUVER, WA 98683
(360) 695-3411 (503) 289-6726 PTLD FAX (360) 695-0633
PAGE 3 of 3
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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

Legend

Subject Property

0 75 150
Feet

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Print Date: 4/20/2015
Approved By: jpounds
Produced By: jschane
Project: 0564.02.01-04

Exhibit C

MAP ILLUSTRATING LOCATION OF RESTRICTIONS

Source: Aerial photograph obtained from Esri ArcGIS Online.

Exhibit C
Location of Restrictions

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

Legend

- Vapor Intrusion Restrictions
- Groundwater Restrictions
- Subject Property

0 30 60
Feet

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Path: X:\0564.02 ACP\01\04\Projects\Exhibit C_Location of Restrictions.mxd
Print Date: 4/20/2015
Approved By: jpounds
Produced By: jschane
Project: 0564.02.01-04