

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Wednesday, July 2, 2014

John Foxwell
Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201

RE: Pier 99 / Pier 99

Enclosed are the results of analyses for work order A4F0761, which was received by the laboratory on 6/30/2014 at 5:25:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cwoodcock@apex-labs.com, or by phone at 503-718-2323.

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

DRAFT REPORT, DATA SUBJECT TO CHANGE

Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201

Project: **Pier 99**
Project Number: Pier 99
Project Manager: John Foxwell

Reported:
07/02/14 10:42

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REX-18	A4F0761-01	Soil	06/30/14 12:31	06/30/14 17:25

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
 3015 SW First Avenue
 Portland, OR 97201

Project: **Pier 99**
 Project Number: Pier 99
 Project Manager: John Foxwell

Reported:
 07/02/14 10:42

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
REX-18 (A4F0761-01)			Matrix: Soil					
Batch: 4070016								
Lead	434	0.138	0.275	mg/kg dry	10	07/01/14 18:11	EPA 6020A	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
 3015 SW First Avenue
 Portland, OR 97201

Project: **Pier 99**
 Project Number: Pier 99
 Project Manager: John Foxwell

Reported:
 07/02/14 10:42

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
REX-18 (A4F0761-01)			Matrix: Soil		Batch: 4060868			
% Solids	79.5	---	1.00	% by Weight	1	07/01/14 10:07	EPA 8000C	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
 3015 SW First Avenue
 Portland, OR 97201

Project: **Pier 99**
 Project Number: Pier 99
 Project Manager: John Foxwell

Reported:
 07/02/14 10:42

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4070016 - EPA 3051A						Soil						
LCS (4070016-BS1)						Prepared: 07/01/14 10:55 Analyzed: 07/01/14 16:54						
EPA 6020A												
Lead	53.9	0.100	0.200	mg/kg wet	10	50.0	---	108	80-120%	---	---	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
 3015 SW First Avenue
 Portland, OR 97201

Project: **Pier 99**
 Project Number: Pier 99
 Project Manager: John Foxwell

Reported:
 07/02/14 10:42

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: TCLP Extraction by EPA 1311

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4070027 - EPA 1311 (TCLP)						Soil						
Blank (4070027-BLK1)						Prepared: 07/01/14 16:19 Analyzed: 07/02/14 10:42						
EPA 1311												
TCLP Extraction	0.00	---		N/A	1	---	---	---	---	---	---	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC 3015 SW First Avenue Portland, OR 97201	Project: Pier 99 Project Number: Pier 99 Project Manager: John Foxwell	Reported: 07/02/14 10:42
--	---	------------------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

DRAFT: Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4060868 - Total Solids (Dry Weight)							Soil					

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC 3015 SW First Avenue Portland, OR 97201	Project: Pier 99 Project Number: Pier 99 Project Manager: John Foxwell	Reported: 07/02/14 10:42
--	---	------------------------------------

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 4070016							
A4F0761-01	Soil	EPA 6020A	06/30/14 12:31	07/01/14 10:55	0.457g/50mL	0.5g/50mL	1.09

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 4060868							
A4F0761-01	Soil	EPA 8000C	06/30/14 12:31	06/30/14 19:55	1N/A/1N/A	1N/A/1N/A	NA

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201

Project: **Pier 99**
Project Number: Pier 99
Project Manager: John Foxwell

Reported:
07/02/14 10:42

Notes and Definitions

Qualifiers:

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory

Apex Companies, LLC
3015 SW First Avenue
Portland, OR 97201

Project: **Pier 99**
Project Number: Pier 99
Project Manager: John Foxwell

Reported:
07/02/14 10:42

CHAIN OF CUSTODY Lab # A4F0761 of

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: <u>Apex Cos.</u>		Project Mgr: <u>Foxwell</u>		Project Name: <u>Pier 99</u>		Project #	
Address: <u>Foxwell</u>		Phone:		Fax:		Email:	
Sample by: <u>Foxwell</u>		Site Location: OR WA		Other:		ANALYSIS REQUEST	
LAB ID #		DATE	TIME	MATRIX	# OF CONTAINERS	SPECIAL INSTRUCTIONS:	
1	REX-18	6/26	12:30	Soil 1	1	YES NO 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: TAT Requested (circle)	
2	Waste Profile Sample	6/30	12:30	Soil 2	2		
3						RECEIVED BY: _____ Signature: <u>John Foxwell</u> Date: <u>6/30</u> Printed Name: <u>John Foxwell</u> Title: <u>Sr. Analyst</u> RECEIVED BY: _____ Signature: _____ Date: _____ Printed Name: _____ Title: _____ Company: <u>Apex</u>	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory