

ANALYTICAL RESULTS

Project: Metal Testing
Pace Project No.: 3562530

*K1

Sample: Potting Soil Lab ID: 3562530001 Collected: 07/17/12 10:00 Received: 07/18/12 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	1.8 mg/kg		1.2	0.58	1	07/19/12 01:45	07/19/12 11:51	7440-38-2	
Chromium	3.0 mg/kg		0.58	0.29	1	07/19/12 01:45	07/19/12 11:51	7440-47-3	
Copper	18.0 mg/kg		0.58	0.29	1	07/19/12 01:45	07/19/12 11:51	7440-50-8	J(M1)
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	58.6 %		0.10	0.10	1		07/19/12 17:43		

QUALITY CONTROL DATA

Project: Metal Testing
Pace Project No.: 3562530

QC Batch: MPRP/9475 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 3562530001

METHOD BLANK: 429585 Matrix: Solid
Associated Lab Samples: 3562530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	0.26U	0.51	07/19/12 11:43	
Chromium	mg/kg	0.13U	0.26	07/19/12 11:43	
Copper	mg/kg	0.13U	0.26	07/19/12 11:43	

LABORATORY CONTROL SAMPLE: 429586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	12.5	13.3	106	80-120	
Chromium	mg/kg	12.5	13.4	107	80-120	
Copper	mg/kg	12.5	13.5	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 429587 429588

Parameter	Units	3562530001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Arsenic	mg/kg	1.8	30	29.7	29.3	30.4	92	97	75-125	4	20	
Chromium	mg/kg	3.0	30	29.7	31.1	33.1	94	102	75-125	6	20	
Copper	mg/kg	18.0	30	29.7	56.0	56.0	127	128	75-125	.007	20	J(M1)

QUALITY CONTROL DATA

Project: Metal Testing
Pace Project No.: 3562530

QC Batch: PMST/1265 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 3562530001

SAMPLE DUPLICATE: 429749

Parameter	Units	3562592001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.1	9.9	9	10	

SAMPLE DUPLICATE: 429750

Parameter	Units	3562470001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	60.9	60.6	.5	10	

SAMPLE DUPLICATE: 429751

Parameter	Units	3562400002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.2	10.2	.3	10	

SAMPLE DUPLICATE: 429752

Parameter	Units	3562431001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	40.3	40.5	.5	10	

SAMPLE DUPLICATE: 429753

Parameter	Units	3562431010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	35.5	35.6	.1	10	

SAMPLE DUPLICATE: 429754

Parameter	Units	3562525003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.8	15.4	3	10	

SAMPLE DUPLICATE: 429755

Parameter	Units	3562525012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.4	17.3	5	10	

QUALIFIERS

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DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Metal Testing
Pace Project No.: 3562530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3562530001	Potting Soil	EPA 3050	MPRP/9475	EPA 6010	ICP/6223
3562530001	Potting Soil	ASTM D2974-87	PMST/1265		