

## ANALYTICAL REPORT

Job Number: 280-12103-1 Job Description: Trail Ridge

For: Waste Management Trail Ridge Landfill 5110 U.SS Highway 301 S Baldwin, FL 32234 Attention: Eric Parker

savielle Harrigian

Approved for release. Danielle M Harrington Project Manager I 2/14/2011 11:05 AM

Danielle M Harrington Project Manager I danielle.harrington@testamericainc.com 02/14/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.



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#### **CASE NARRATIVE**

#### **Client: Waste Management**

#### **Project: Trail Ridge**

#### Report Number: 280-12103-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

This submission may contain field data obtained by the sampler. The methods referenced in this submission for the field data results may not be the methods used to obtain the field data by the sampler.

#### **RECEIPT**

Two samples were received on 02/01/2011at TestAmerica Denver with a cooler temperature of 3.3C.

All sample bottles were received in acceptable condition.

HOLDING TIMES

All Holding Times were met.

#### METHOD BLANKS

All Method Blanks were within the acceptance limits.

#### LABORATORY CONTROL SAMPLES (LCS)

All Laboratory Control Samples were within the acceptance limits.

#### MATRIX SPIKE (MS) and MATRIX SPIKE DUPLICATES (MSD)

All Matrix Spike and Matrix Spike Duplicates were within the acceptance limits.

#### **GENERAL CHEMISTRY**

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to analytes present above the linear calibration curve, both samples were analyzed at a dilution. The reporting limits have been adjusted relative to the volume used.

## **EXECUTIVE SUMMARY - Detections**

#### Client: Waste Management

Lab Sample ID Cl Analyte	ient Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-12103-1	SW2 POND - 1ST SAMPL	E			
Total Suspended Solids	3	110	6.7	mg/L	SM 2540D
<i>Total Recoverable</i> Lead Iron		35 3800	9.0 100	ug/L ug/L	200.7 Rev 4.4 200.7 Rev 4.4
280-12103-2	SW2 POND- 2ND SAMPL	E			
Total Suspended Solids	3	56	10	mg/L	SM 2540D
<i>Total Recoverable</i> Lead Iron		35 3600	9.0 100	ug/L ug/L	200.7 Rev 4.4 200.7 Rev 4.4

### **METHOD SUMMARY**

#### Client: Waste Management

#### Job Number: 280-12103-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL DEN	EPA 200.7 R	ev 4.4
Preparation, Total Recoverable Metals	TAL DEN		EPA 200.7
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540	D
Lab References:			
TAL DEN = TestAmerica Denver			

#### Method References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

## METHOD / ANALYST SUMMARY

Method	Analyst	Analyst ID
EPA 200.7 Rev 4.4	Bowen, Heidi E	HEB
SM SM 2540D	Gheorghe, Philip A	PAG

## SAMPLE SUMMARY

#### Client: Waste Management

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
280-12103-1	SW2 Pond - 1st Sample	Water	01/26/2011 1730	02/01/2011 1257
280-12103-2	SW2 Pond- 2nd Sample	Water	01/26/2011 1731	02/01/2011 1257

## SAMPLE RESULTS

Client: Waste Management

Client Sample ID:	SW2 Pond - 1st Sample	)						
Lab Sample ID: Client Matrix:	280-12103-1 Water					e Sampled: 01/26/2011 1730 e Received: 02/01/2011 1257		
		200.7 Rev 4.4 Metals (ICP	)-Total Recoverable					
Method:	200.7 Rev 4.4	Analysis Batch: 280-5240	04 Ir	strument ID:	МТ	_026		
Preparation:	200.7	Prep Batch: 280-51369	L	ab File ID:	26a	020811.asc		
Dilution:	1.0		Ir	itial Weight/Volu	me: 50	mL		
Date Analyzed:	02/08/2011 1439		F	inal Weight/Volur	ne: 50	mL		
Date Prepared:	02/02/2011 1430							
Analyte		Result (ug/L)	Qualifier	MDL		RL		
Lead		35		2.6		9.0		
Iron		3800		22		100		

Client: Waste Management

Client Sample ID:	SW2 Pond- 2nd Sam	ple					
Lab Sample ID: Client Matrix:	280-12103-2 Water				e Sampled: 01/26/2011 173 e Received: 02/01/2011 125		
		200.7 Rev 4.4 Metals (ICP)-Te	otal Recoverable				
Method:	200.7 Rev 4.4	Analysis Batch: 280-52404	Ins	strument ID:	MT_026		
Preparation:	200.7	Prep Batch: 280-51369	La	b File ID:	26a020811.asc		
Dilution:	1.0		Ini	tial Weight/Volume:	50 mL		
Date Analyzed:	02/08/2011 1442		Fir	nal Weight/Volume:	50 mL		
Date Prepared:	02/02/2011 1430						
Analyte		Result (ug/L)	Qualifier	MDL	RL		
Lead		35		2.6	9.0		
Iron		3600		22	100		

			Gen	eral Chemi	istry			
Client Sample ID:	SW2 Pond - 1st	Sample						
Lab Sample ID: Client Matrix:	280-12103-1 Water						•	: 01/26/2011 1730 d: 02/01/2011 1257
Analyte		Result	Qual	Units	MDL	RL	Dil	Method
Total Suspended Solids	;	110		mg/L	1.8	6.7	1.0	SM 2540D
Ana	alysis Batch: 280-5	51615	Date Analyzed	: 02/02/201	11 1736			

			Gen	eral Chem	istry			
Client Sample ID:	SW2 Pond- 2nd	Sample						
Lab Sample ID: Client Matrix:	280-12103-2 Water							l: 01/26/2011 1731 d: 02/01/2011 1257
Analyte		Result	Qual	Units	MDL	RL	Dil	Method
Total Suspended Solids	i	56		mg/L	2.8	10	1.0	SM 2540D
Ana	alysis Batch: 280-	51615	Date Analyzed	: 02/02/201	11 1736			

## DATA REPORTING QUALIFIERS

Client: Waste Management

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

## **QUALITY CONTROL RESULTS**

#### Client: Waste Management

#### Job Number: 280-12103-1

## **QC Association Summary**

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-51369					
_CS 280-51369/2-A	Lab Control Sample	R	Water	200.7	
/IB 280-51369/1-A	Method Blank	R	Water	200.7	
280-12102-C-1-B MS	Matrix Spike	R	Water	200.7	
280-12102-C-1-C MSD	Matrix Spike Duplicate	R	Water	200.7	
280-12103-1	SW2 Pond - 1st Sample	R	Water	200.7	
280-12103-2	SW2 Pond- 2nd Sample	R	Water	200.7	
Analysis Batch:280-52404					
CS 280-51369/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	280-51369
/IB 280-51369/1-A	Method Blank	R	Water	200.7 Rev 4.4	280-51369
280-12102-C-1-B MS	Matrix Spike	R	Water	200.7 Rev 4.4	280-51369
280-12102-C-1-C MSD	Matrix Spike Duplicate	R	Water	200.7 Rev 4.4	280-51369
280-12103-1	SW2 Pond - 1st Sample	R	Water	200.7 Rev 4.4	280-51369
280-12103-2	SW2 Pond- 2nd Sample	R	Water	200.7 Rev 4.4	280-51369

#### Report Basis

R = Total Recoverable

#### **General Chemistry**

Analysis Batch:280-51615	5				
LCS 280-51615/2	Lab Control Sample	Т	Water	SM 2540D	
LCSD 280-51615/3	Lab Control Sample Duplicate	Т	Water	SM 2540D	
MB 280-51615/1	Method Blank	Т	Water	SM 2540D	
280-12103-1	SW2 Pond - 1st Sample	Т	Water	SM 2540D	
280-12103-1DU	Duplicate	Т	Water	SM 2540D	
280-12103-2	SW2 Pond- 2nd Sample	Т	Water	SM 2540D	

#### Report Basis

T = Total

**TestAmerica Denver** 

Lead Iron

Client: Waste Management

Job Number: 280-12103-1

#### Method: 200.7 Rev 4.4 Preparation: 200.7 Total Recoverable

Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	MB 280-51369/1-A Water 1.0 02/08/2011 1422 02/02/2011 1430	Analysis Batch: 280- Prep Batch: 280-513 Units: ug/L		Instrument ID: MT_02 Lab File ID: 26a020 Initial Weight/Volume: Final Weight/Volume:	6 0811.asc 50 mL 50 mL
Analyte		Result	Qual	MDL	RL
Lead		2.6	U	2.6	9.0
Iron		22	U	22	100
Lab Control S	ample - Batch: 280-51369	I		Method: 200.7 Rev Preparation: 200.7 Total Recoverable	4.4
Lab Sample ID:	LCS 280-51369/2-A	Analysis Batch: 280-	52404	Instrument ID: MT_0	)26
		Prep Batch: 280-513	69	Lab File ID: 26a0	20811.asc
Client Matrix:	Water	FIEP Balon. 200-013	00	2000	20011.050
Client Matrix: Dilution:	Water 1.0	Units: ug/L		Initial Weight/Volume:	
		•			50 mL
Dilution:	1.0	•		Initial Weight/Volume:	50 mL

3	Spike Amount	Result	% Rec.	Limit	Qual
	500	523	105	89 - 110	
	1000	993	99	89 - 115	

#### **TestAmerica Denver**

Matrix Spike/

Client: Waste Management

#### Matrix Spike Duplicate Recovery Report - Batch: 280-51369

# Method: 200.7 Rev 4.4

### Preparation: 200.7 Total Recoverable

Method: 200.7 Rev 4.4

Preparation: 200.7 Total Recoverable

MS Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	280-12102-C-1-B MS Water 1.0 02/08/2011 1431 02/02/2011 1430	Analysis Batch: 280-52404 Prep Batch: 280-51369	Instrument ID: MT_026 Lab File ID: 26a020811.asc Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL
MSD Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	280-12102-C-1-C MSD Water 1.0 02/08/2011 1433 02/02/2011 1430	Analysis Batch: 280-52404 Prep Batch: 280-51369	Instrument ID: MT_026 Lab File ID: 26a020811.asc Initial Weight/Volume: 50 mL Final Weight/Volume: 50 mL

	<u>% R</u>	lec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	104	103	89 - 110	1	20		
Iron	102	103	89 - 115	0	20		

## Matrix Spike/

## Matrix Spike Duplicate Recovery Report - Batch: 280-51369

MS Lab Sample ID:	280-12102-C-1-B MS	Units: ug/L	MSD Lab Sample ID	280-12102-C-1-C MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	02/08/2011 1431		Date Analyzed:	02/08/2011 1433
Date Prepared:	02/02/2011 1430		Date Prepared:	02/02/2011 1430

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual	l	Amount	Amount	Result/Qual	Result/Qual
Lead	2.6	U	500	500	522	517
Iron	920		1000	1000	1940	1950

**TestAmerica Denver** 

## **Quality Control Results**

Job Number: 280-12103-1

Method: SM 2540D Preparation: N/A

Client: Waste Management

Method Blank - Batch: 280-51615

Client Matrix: Dilution: Date Analyzed:	Water 1.0 02/02/2011 1736		atch: N/A	0-01010			N/A /olume: 10	00 mL 50 mL	
LCSD Lab Sample	ID: LCSD 280-51615/3	Analys	is Batch: 28	0-51615		Instrument ID:	No Equipr	ment Δs	signed
Date Analyzed: Date Prepared:	N/A					Final weight/v	olume. 2:	50 ML	
Dilution:	1.0 02/02/2011 1736	Units:	mg/L			Initial Weight/V Final Weight/V		00 mL 50 mL	
Client Matrix:	Water	•	atch: N/A				N/A	00	
LCS Lab Sample ID		•	is Batch: 28	0-51615		Instrument ID:		nent As	ssigned
Lab Control Sam	ple Duplicate Recovery F	Report - Bat	ch: 280-516	615		Preparation:	N/A		
Lab Control Sam	ple/					Method: SM	2540D		
Total Suspended So	olids		1.1		U	1.1		4.0	
Analyte			Result		Qual	MDL		RL	
Date Prepared: N	I/A					-			
	2/02/2011 1736	Office.				Final Weight/Vol			
	.0	Units:				Initial Weight/Vo		) mL	
Lab Sample ID: M Client Matrix: V	1B 280-51615/1 Vater	Prep Ba	Batch: 280	-51015			No Equipme N/A	ent Ass	igneu

## **Quality Control Results**

Job Number: 280-12103-1

Client: Waste Management

#### Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-51615

Laboratory Duplicate	e Data Report - Batch: 280-5161	5		Preparation: N/A	
LCS Lab Sample ID:	LCS 280-51615/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-51615/3

Client Matrix:	Water	Client Matrix:	Water
Dilution:	1.0	Dilution:	1.0
Date Analyzed:	02/02/2011 1736	Date Analyzed:	02/02/2011 1736
Date Prepared:	N/A	Date Prepared:	N/A

Analyte		LCS Spike Amount	LCSD Spike Amount		₋CS Result/Qual	LCSD Resul	t/Qual
Total Suspended	Solids	100	100	٤	39.0	94.0	
Duplicate - Bat	ch: 280-51615				hod: SM 2540E paration: N/A	)	
Lab Sample ID: Client Matrix: Dilution: Date Analyzed: Date Prepared:	280-12103-1 Water 1.0 02/02/2011 1736 N/A	Analysis Batch: 2 Prep Batch: N/A Units: mg/L	280-51615	Lab Initia	rument ID: No E File ID: N/A al Weight/Volume al Weight/Volume		signed
Analyte		Sample Result	/Qual R	esult	RPD	Limit	Qual
Total Suspended	Solids	110	12	22	7	10	

Method: SM 2540D

Preparation: N/A

## Client: Waste Management

#### Job Number: 280-12103-1

## Laboratory Chronicle

Lab ID:	280-1210	03-1	Client II	D: SW2 Por	nd - 1st Sample				
			Sample	Date/Time:	01/26/2011 17:30	Received Date/	Time:	02/01/2011 12	::57
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:200.7		280-12103-B-1-A		280-52404	280-51369	02/02/2011 14:30	1	TAL DEN	JM
A:200.7 Re	ev 4.4	280-12103-B-1-A		280-52404	280-51369	02/08/2011 14:39	1	TAL DEN	HEB
A:SM 2540	)D	280-12103-A-1		280-51615		02/02/2011 17:36	1	TAL DEN	PAG
Lab ID:	280-1210	03-1 DU	Client II	): SW2 Po	nd - 1st Sample				
			Sample	Date/Time:	01/26/2011 17:30	Received Date/	Time:	02/01/2011 12	::57
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
A:SM 2540	D	280-12103-A-1 DU		280-51615	•	02/02/2011 17:36	1	TAL DEN	PAG
Lab ID:	280-1210	03-2	Client II	): SW2 Po	nd- 2nd Sample				
			Sample	Date/Time:	01/26/2011 17:31	Received Date/	Time:	02/01/2011 12	::57
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:200.7		280-12103-B-2-A		280-52404	280-51369	02/02/2011 14:30	1	TAL DEN	JM
A:200.7 Re	ev 4.4	280-12103-B-2-A		280-52404	280-51369	02/08/2011 14:42	1	TAL DEN	HEB
A:SM 2540	)D	280-12103-A-2		280-51615		02/02/2011 17:36	1	TAL DEN	PAG
Lab ID:	MB		Client II	<b>): N/A</b> Date/Time:	N/A	Received Date/	Time <sup>.</sup>	N/A	
			Gample				rine.	N/A	
Method									
		Bottle ID	Run	Analysis Batch	Pron Batch	Date Prepared / Analyzed	Dil	Lah	Analvet
		Bottle ID MB 280-51369/1-A	Run	Batch	Prep Batch 280-51369	Analyzed	Dil 1	Lab	Analyst
P:200.7		MB 280-51369/1-A	Run	Batch 280-52404	280-51369	Analyzed 02/02/2011 14:30	1	TAL DEN	JM
P:200.7 A:200.7 Re	-	MB 280-51369/1-A MB 280-51369/1-A	Run	Batch 280-52404 280-52404	•	Analyzed 02/02/2011 14:30 02/08/2011 14:22	1 1	TAL DEN TAL DEN	JM HEB
P:200.7 A:200.7 Re A:SM 2540	)D	MB 280-51369/1-A		Batch 280-52404 280-52404 280-51615	280-51369	Analyzed 02/02/2011 14:30	1	TAL DEN	JM
P:200.7 A:200.7 Re	-	MB 280-51369/1-A MB 280-51369/1-A	Client II	Batch           280-52404           280-52404           280-51615           D:         N/A	280-51369	Analyzed 02/02/2011 14:30 02/08/2011 14:22	1 1 1	TAL DEN TAL DEN	JM HEB
P:200.7 A:200.7 Re A:SM 2540	)D	MB 280-51369/1-A MB 280-51369/1-A	Client II	Batch           280-52404           280-52404           280-51615           D:         N/A	280-51369 280-51369	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/	1 1 1	TAL DEN TAL DEN TAL DEN	JM HEB
P:200.7 A:200.7 Re A:SM 2540 Lab ID:	)D	MB 280-51369/1-A MB 280-51369/1-A	Client II	Batch           280-52404           280-52404           280-51615           D:         N/A	280-51369 280-51369	Analyzed           02/02/2011         14:30           02/08/2011         14:22           02/02/2011         17:36	1 1 1	TAL DEN TAL DEN TAL DEN	JM HEB
P:200.7 A:200.7 Re A:SM 2540	)D	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1	Client II Sample	Batch           280-52404           280-52404           280-51615           N/A           Date/Time:           Analysis	280-51369 280-51369 N/A	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/ Date Prepared /	1 1 1 Time:	TAL DEN TAL DEN TAL DEN	JM HEB PAG
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID	Client II Sample	Batch 280-52404 280-52404 280-51615 D: N/A Date/Time: Analysis Batch	280-51369 280-51369 N/A Prep Batch	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/ Date Prepared / Analyzed	1 1 1 Time: Dil	TAL DEN TAL DEN TAL DEN N/A	JM HEB PAG Analyst
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method P:200.7	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID LCS 280-51369/2-A	Client II Sample	Batch 280-52404 280-52404 280-51615 D: N/A Date/Time: Analysis Batch 280-52404	280-51369 280-51369 N/A <b>Prep Batch</b> 280-51369	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/ Date Prepared / Analyzed 02/02/2011 14:30	1 1 1 Time: <b>Dil</b> 1	TAL DEN TAL DEN TAL DEN N/A Lab TAL DEN	JM HEB PAG Analyst JM
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method P:200.7 A:200.7 Re	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID LCS 280-51369/2-A LCS 280-51369/2-A	Client II Sample	Batch           280-52404           280-52404           280-51615           N/A           Date/Time:           Analysis           Batch           280-52404           280-51615	280-51369 280-51369 N/A <b>Prep Batch</b> 280-51369	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/ Date Prepared / Analyzed 02/02/2011 14:30 02/08/2011 14:24	1 1 Time: <b>Dil</b> 1 1	TAL DEN TAL DEN TAL DEN N/A Lab TAL DEN TAL DEN	JM HEB PAG Analyst JM HEB
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method P:200.7 A:200.7 Re A:SM 2540	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID LCS 280-51369/2-A LCS 280-51369/2-A	Client II Sample Run Client II	Batch           280-52404           280-52404           280-51615           N/A           Date/Time:           Analysis           Batch           280-52404           280-51615	280-51369 280-51369 N/A <b>Prep Batch</b> 280-51369	Analyzed 02/02/2011 14:30 02/08/2011 14:22 02/02/2011 17:36 Received Date/ Date Prepared / Analyzed 02/02/2011 14:30 02/08/2011 14:24	1 1 1 Time: <b>Dil</b> 1 1	TAL DEN TAL DEN TAL DEN N/A Lab TAL DEN TAL DEN	JM HEB PAG Analyst JM HEB
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method P:200.7 A:200.7 Re A:SM 2540	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID LCS 280-51369/2-A LCS 280-51369/2-A	Client II Sample Run Client II	Batch           280-52404           280-52404           280-51615           D:         N/A           Date/Time:           Analysis           Batch           280-52404           280-51615           Date/Time:           Analysis           Batch           280-52404           280-52404           280-51615           D:         N/A	280-51369 280-51369 N/A <b>Prep Batch</b> 280-51369 280-51369	Analyzed         02/02/2011       14:30         02/08/2011       14:22         02/02/2011       17:36         Received Date/         Date Prepared /         Analyzed       02/02/2011       14:30         02/08/2011       14:24       02/02/2011       17:36	1 1 1 Time: <b>Dil</b> 1 1	TAL DEN TAL DEN TAL DEN N/A Lab TAL DEN TAL DEN TAL DEN	JM HEB PAG Analyst JM HEB
P:200.7 A:200.7 Re A:SM 2540 Lab ID: Method P:200.7 A:200.7 Re A:SM 2540	LCS	MB 280-51369/1-A MB 280-51369/1-A MB 280-51615/1 Bottle ID LCS 280-51369/2-A LCS 280-51369/2-A	Client II Sample Run Client II	Batch           280-52404           280-52404           280-51615           D:         N/A           Date/Time:           Analysis           Batch           280-52404           280-51615           Date/Time:           Analysis           Batch           280-52404           280-52404           280-51615           D:         N/A           Date/Time:	280-51369 280-51369 N/A <b>Prep Batch</b> 280-51369 280-51369	Analyzed         02/02/2011       14:30         02/08/2011       14:22         02/02/2011       17:36         Received Date/         Date Prepared /         Analyzed       02/02/2011       14:30         02/02/2011       14:30       02/08/2011       14:24         02/02/2011       17:36       14:24       02/02/2011         Received Date/	1 1 1 Time: <b>Dil</b> 1 1	TAL DEN TAL DEN TAL DEN N/A Lab TAL DEN TAL DEN TAL DEN	JM HEB PAG Analyst JM HEB

#### Client: Waste Management

## Laboratory Chronicle

Job	Number:	280-12103-1
300	Number.	200-12103-1

Lab ID:	MS		Client IE	): N/A					
			Sample	Date/Time:	01/31/2011 13:24	Received Date/	/Time:	02/01/2011 12	2:00
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:200.7		280-12102-C-1-B MS		280-52404	280-51369	02/02/2011 14:30	1	TAL DEN	JM
A:200.7 F	Rev 4.4	280-12102-C-1-B MS		280-52404	280-51369	02/08/2011 14:31	1	TAL DEN	HEB
Lab ID:	MSD		Client IE	): N/A					
			Sample	Date/Time:	01/31/2011 13:24	Received Date/	/Time:	02/01/2011 12	2:00
				Analysis		Date Prepared /			
Method		Bottle ID	Run	Batch	Prep Batch	Analyzed	Dil	Lab	Analyst
P:200.7		280-12102-C-1-C MSD		280-52404	280-51369	02/02/2011 14:30	1	TAL DEN	JM
A:200.7 F	Rev 4.4	280-12102-C-1-C MSD		280-52404	280-51369	02/08/2011 14:33	1	TAL DEN	HEB

#### Lab References:

TAL DEN = TestAmerica Denver

	Sampler ID		く ) う ) )		
Chain of	Temperature on Receipt 3.				
Custody Record	Drinking Water? Yes 🗆		LEADER IN ENVIRONMENTAL TESTING		
TAL-4124-280 (0508)	-	2//		hain of Custody Nu	mber
cient 1/ 95+ Mangar incht. Inc. of F	Flohect manager		28/11	123269	3269
110 US Hwy 301	Telephone Number (Area Code)/Fax Number			Page	of
Baldyin state Zip Code	Site Contact	b Contact	Analysis (Attach list if more space is needed)	<u>}</u>	
	Ŋ.	e and a start of the start of t		Special In	Special Instructions/
er/Qu	Matrix	Containers &		Condition	's of Receipt
Sample I.D. No. and Description Containers for each sample may be combined on one line) Date	Air Aqueous Sed. Soll	Unpres. H2SO4 HNO3 HCI NaOH ZnAc/ NaOH			
1126/11	7				
Pond - 2nd sample 1/26/11	31 m				
					25
					of
					e 22
					Pag
			(A fee may be assessed if samples are retained	sed if samples are r	etained
LA Non-Hazard   Flammable   Skin Initiant   Poison B   0		QC Requirements (Specify)			
24 Hours 24 Hours 7 Days 14 Days 21 Days	Other				1
N D Vap	Date 1/25/11 1:35 pm	1. Received By MANOWO		Parte	0900
2. Relinquished By		2. Received By		Date	Time
3. Relinquished By	Date	3. Received By		Date	Time
Comments					

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DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

#### PART III ANALYTICAL RESULTS

Facility GMS#:	Sample Date/Time:	01/26/2011 05:30PM
Test Site ID #:	Report Period:	2011 / 1
		Year / Qtr
Well Name: SW2 Pond - 1st Sample	Well Purged (Y/N):	
Classification of Groundwater: G-II	Well Type:	( ) Background
Groundwater Elevation (NGVD):		<ul><li>( ) Detection</li><li>( ) Compliance</li></ul>
or (MSL):		( ) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	* Analysis Result/Units	Detection Limit/Units
01051	Lead		N	200.7 Rev 4.4	02/08/2011 14:39	35 ug/L	9.0 ug/L
001045	Iron		N	200.7 Rev 4.4	02/08/2011 14:39	3800 ug/L	100 ug/L
00530	Total Suspended Solids		Ν	SM 2540D	02/02/2011 17:36	110 mg/L	6.7 mg/L

#### PART III ANALYTICAL RESULTS

Facility GMS#:		Sample Date/Time:		01/26/2011 05:31PM
Test Site ID #:		Report Period:		2011 / 1
				Year / Qtr
Well Name: SW2 P	ond- 2nd Sample	Well Purged (Y/N):		
Classification of Groundwater:	G-II	- Well Type:	(	) Background
Groundwater Elevation (NGVD):			(	) Detection
		•	(	) Compliance
or (MSL	):	<u>.</u>	(	) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered (Y/N)	Analysis Method	Analysis Date/Time	* Analysis Result/Units	Detection Limit/Units
01051	Lead		N	200.7 Rev 4.4	02/08/2011 14:42	35 ug/L	9.0 ug/L
01045	Iron		N	200.7 Rev 4.4	02/08/2011 14:42	3600 ug/L	100 ug/L
00530	Total Suspended Solids		N	SM 2540D	02/02/2011 17:36	56 mg/L	10 mg/L

Client: Waste Management

#### Login Number: 12103 Creator: Philipp, Nicholas A List Number: 2

Question	T / F/ NA Comment
Radioactivity either was not measured or, if measured, is at or below background	True
The cooler's custody seal, if present, is intact.	True
The cooler or samples do not appear to have been compromised or tampered with.	True
Samples were received on ice.	True
Cooler Temperature is acceptable.	True
Cooler Temperature is recorded.	True
COC is present.	True
COC is filled out in ink and legible.	True
COC is filled out with all pertinent information.	True
Is the Field Sampler's name present on COC?	True
There are no discrepancies between the sample IDs on the containers and the COC.	True
Samples are received within Holding Time.	True
Sample containers have legible labels.	True
Containers are not broken or leaking.	True
Sample collection date/times are provided.	True
Appropriate sample containers are used.	True
Sample bottles are completely filled.	True
Sample Preservation Verified	True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True
If necessary, staff have been informed of any short hold time or quick TAT needs	True
Multiphasic samples are not present.	True
Samples do not require splitting or compositing.	True
Sampling Company provided.	True
Samples received within 48 hours of sampling.	True
Samples requiring field filtration have been filtered in the field.	N/A
Chlorine Residual checked.	N/A

List Source: TestAmerica Denver