



07/19/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F23261

Sampling Date: 04/06/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

S M Stoller

Job No: F23261

Monthly Sampling, STAR Center, Largo, FL
 Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F23261-1	04/06/04	10:15 JPC	04/06/04	AQ	Ground Water	PIN18-RW02-N001
F23261-2	04/06/04	10:11 JPC	04/06/04	AQ	Ground Water	PIN18-RW03-N001
F23261-3	04/06/04	10:18 JPC	04/06/04	AQ	Ground Water	PIN18-RW0501-N001
F23261-4	04/06/04	10:22 JPC	04/06/04	AQ	Ground Water	PIN18-EFF1-N001
F23261-5	04/06/04	10:27 JPC	04/06/04	AQ	Ground Water	PIN18-EFF2-N001

**Accutest Laboratories Southeast, Inc.
Analytical Narrative**

Client: S M Stoller

Job No: F23261

Site: Monthly Sampling, STAR Center, Largo, FL

Report Date 4/20/2004

5 Sample were collected on 04/06/2004 and were received at Accutest on 04/06/2004 properly preserved, at 4.8 Deg. C and intact. These Samples received an Accutest job number of F23261. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified holding times, calibrations and quality control performance criteria were met.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VB929

All samples were run within holding times.

Samples F23234-4MS, F23234-4MSD were used as the QC samples indicated.

All method blanks for this batch passed with no positive results

The MS/MSD had Recoveries for 2-Chloroethyl vinyl ether are outside control limits. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6558

All samples were digested within holding time for method

All samples were run within holding times.

Samples F23272-1MS, F23272-1MSD, F23272-1SDL, F23272-1DUP were used as the QC samples for metals.

All method blanks for this batch passed with no positive results

RPDs for Serial Dilution for Arsenic are outside control limits for sample MP6558-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

RPD for Duplicate for Arsenic are outside control limits for sample MP6558-D1. RPD acceptable due to low duplicate and sample concentrations.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other than conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Date: April 20, 2004

Sue O. Bell, Project Manager (signature on file)

Report of Analysis

Client Sample ID: PIN18-RW02-N001	
Lab Sample ID: F23261-1	Date Sampled: 04/06/04
Matrix: AQ - Ground Water	Date Received: 04/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B021383.D	1	04/16/04	KW	n/a	n/a	VB929
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	1.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	1.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PIN18-RW02-N001		Date Sampled: 04/06/04
Lab Sample ID: F23261-1		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: PIN18-RW02-N001	Date Sampled: 04/06/04
Lab Sample ID: F23261-1	Date Received: 04/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	50.7	10	3.5	ug/l	1	04/08/04	04/09/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3761

(2) Prep QC Batch: MP6558

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PIN18-RW03-N001	Date Sampled:	04/06/04
Lab Sample ID:	F23261-2	Date Received:	04/06/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B021384.D	1	04/16/04	KW	n/a	n/a	VB929
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	1.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	1.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: PIN18-RW03-N001		Date Sampled: 04/06/04
Lab Sample ID: F23261-2		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: PIN18-RW03-N001	
Lab Sample ID: F23261-2	Date Sampled: 04/06/04
Matrix: AQ - Ground Water	Date Received: 04/06/04
	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	48.3	10	3.5	ug/l	1	04/08/04	04/09/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3761

(2) Prep QC Batch: MP6558

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PIN18-RW0501-N001	
Lab Sample ID:	F23261-3	Date Sampled: 04/06/04
Matrix:	AQ - Ground Water	Date Received: 04/06/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Monthly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B021385.D	1	04/16/04	KW	n/a	n/a	VB929
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	1.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	1.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PIN18-RW0501-N001		Date Sampled: 04/06/04
Lab Sample ID: F23261-3		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: PIN18-RW0501-N001	Date Sampled: 04/06/04
Lab Sample ID: F23261-3	Date Received: 04/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	147	10	3.5	ug/l	1	04/08/04	04/09/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3761

(2) Prep QC Batch: MP6558

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

3.4
3

Client Sample ID: PIN18-EFF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23261-4		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	40.4	10	3.5	ug/l	1	04/08/04	04/09/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3761

(2) Prep QC Batch: MP6558

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PIN18-EFF2-N001	
Lab Sample ID: F23261-5	Date Sampled: 04/06/04
Matrix: AQ - Ground Water	Date Received: 04/06/04
	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	04/08/04	04/09/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3761

(2) Prep QC Batch: MP6558

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

F23261

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION										MATRIX CODES
NAME: S.M. Stoller ADDRESS: 7887 Bryan Dairy Rd, Suite 260 CITY: Largo FL 33777 STATE: FL ZIP: 33777 SEND REPORT TO: Keith Miller PHONE #: 970-248-6598		PROJECT NAME: STAR Center - Monthly sampling LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Julian Caballero FAX #: 727-549-1121				VOCs - 8260 Arsenic										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MTRX	LOF BOTTLES	PRESERVATION					LAB USE ONLY				
		DATE	TIME	SAMPLED BY:			ICI	NICH	PHOS	HERB	NONE					
1	PIN18-RW02-N001	4-6-04	1015	aq	GW	4						3	1			
2	PIN18-RW03-N001		1011	aq	GW	4						3	1			
3	PIN18-RW0501-N001		1018	aq	GW	4						3	1			
4	PIN18-EFF1-N001		1022	aq	GW	1						1	1			
5	PIN18-EFF2-N001		1027	aq	WW	1						1	1			
<input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD DATA DELIVERABLE INFORMATION <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS										
RELINQUISHED BY SAMPLER: 1. J.P. Cole DATE TIME: 4-6-04/12:15 RECEIVED BY: 1. J.P. Cole DATE TIME: 4/6/04 12:15 RELINQUISHED BY: 2. J.P. Cole DATE TIME: 4/6/04 RECEIVED BY: 2. Carlos Ryz DATE TIME: 14:55 RELINQUISHED BY: 3. DATE TIME: _____ RECEIVED BY: 3. DATE TIME: _____ RELINQUISHED BY: 4. DATE TIME: _____ RECEIVED BY: 4. DATE TIME: _____ RELINQUISHED BY: 5. DATE TIME: _____ RECEIVED BY: 5. DATE TIME: _____													SEAL # _____ PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE _____ C			

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F23261
 Client: S.M. Stoller Project: Star Circle
 Date Received: 4/6/04 Time Received: 14:55
 # of Coolers Received: 1 Cooler Temperatures: 4.8
 Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number: _____

Cooler Custody Seals Intact ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Chain of Custody Provided ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC Match Bottle Label ID's ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample Labels Present on all bottles ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All Analyses Marked On COC ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Are All Bottles Intact ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples Preserved Correctly ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Correct Number of Containers Used ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient Sample Volume ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Trip Blank Provided ?	Yes	<input checked="" type="radio"/> No	
Trip Blank on COC ?	Yes	<input checked="" type="radio"/> No	
Trip Blank Intact ?	Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blank Matrix ?	Soil	Water	<input checked="" type="radio"/> N/A
Number of Encores ?	<u>0</u>		
Number of Soil Field Kits ?	<u>0</u>		

Summary of Comments: _____

Signature: [Signature] Date: 4/6/04
 Review Signature: _____

ASBD 12/30/03

4.1
4

F23261: Chain of Custody
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07/19/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F23902

Sampling Date: 05/05/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **12**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

S M Stoller

Job No: F23902

Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F23902-1	05/05/04	09:42 JC	05/06/04	AQ	Ground Water	PIN18-RW02-N001
F23902-2	05/05/04	09:40 JC	05/06/04	AQ	Ground Water	PIN18-RW03-N001
F23902-3	05/05/04	09:45 JC	05/06/04	AQ	Ground Water	PIN18-RW0501-N001
F23902-4	05/05/04	09:47 JC	05/06/04	AQ	Ground Water	PIN18-EFF1-N001
F23902-5	05/05/04	09:53 JC	05/06/04	AQ	Ground Water	PIN18-EFF2-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F23902

Site: Monthly Sampling, STAR Center, Largo, FL

Report Date 5/17/2004

5 Samples were collected on 05/05/2004 and were received at Accutest on 05/06/2004 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of F23902. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6670

All samples were analyzed within the recommended method holding time.

Samples F23921-4MS, F23921-4MSD, F23921-4SDL, F23921-4DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Arsenic is outside control limits. The Blank Spike was within control limits. Data not adversely affected.

RPD for Duplicate for Arsenic is outside control limits. The Blank Spike was within control limits. Data not adversely affected.

Matrix: AQ

Batch ID: MP6678

All samples were analyzed within the recommended method holding time.

Samples F23908-2MS, F23908-2MSD, F23908-2SDL, F23908-2DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Arsenic is outside control limits. The Blank Spike was within control limits. Data not adversely affected.

RPD for Duplicate for Arsenic is outside control limits. The Blank Spike was within control limits. Data not adversely affected.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: May 18, 2004

Sue O. Bell, Project Manager (signature on file)

Report of Analysis

Client Sample ID:	PIN18-RW02-N001	
Lab Sample ID:	F23902-1	Date Sampled: 05/05/04
Matrix:	AQ - Ground Water	Date Received: 05/06/04
Project:	Monthly Sampling, STAR Center, Largo, FL	Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	30.9	10	3.5	ug/l	1	05/10/04	05/11/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3797

(2) Prep QC Batch: MP6670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

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3

Client Sample ID: PIN18-RW03-N001	Date Sampled: 05/05/04
Lab Sample ID: F23902-2	Date Received: 05/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	437	10	3.5	ug/l	1	05/10/04	05/11/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3797

(2) Prep QC Batch: MP6670

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PIN18-RW0501-N001		Date Sampled: 05/05/04
Lab Sample ID: F23902-3		Date Received: 05/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	536	10	3.5	ug/l	1	05/10/04	05/11/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3797

(2) Prep QC Batch: MP6670

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

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3

Client Sample ID: PIN18-EFF1-N001		Date Sampled: 05/05/04
Lab Sample ID: F23902-4		Date Received: 05/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	70.6	10	3.5	ug/l	1	05/12/04	05/13/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3800

(2) Prep QC Batch: MP6678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PIN18-EFF2-N001	
Lab Sample ID: F23902-5	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
	Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	05/12/04	05/13/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3800

(2) Prep QC Batch: MP6678

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F23902**
 Client: **S.M. STOLLER** Project: **STAR CENTER - MONTHLY**
 Date Received: **5/6/07** Time Received: **09:45**
 # of Coolers Received: **1** Cooler Temperatures: **1.2**
 Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number: _____

Cooler Custody Seals Intact ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Chain of Custody Provided ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
COC Match Bottle Label ID's ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Sample Labels Present on all bottles ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
All Analyses Marked On COC ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Are All Bottles Intact ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Samples Preserved Correctly ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Correct Number of Containers Used ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Sufficient Sample Volume ?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Trip Blank Provided ?	Yes	<input checked="" type="radio"/> No
Trip Blank on COC ?	Yes	<input checked="" type="radio"/> No
Trip Blank Intact ?	Yes	No <input checked="" type="radio"/> N/A
Trip Blank Matrix ?	Soil	Water <input checked="" type="radio"/> N/A
Number of Encores ?	<u>0</u>	
Number of Soil Field Kits ?	<u>0</u>	

Summary of Comments: _____

Signature: *Carlton B* Date: 5/6/07
 Review Signature: _____

ASBD 12/30/03

F23902: Chain of Custody
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07/19/04

Technical Report for

S M Stoller

Star Center-WWNA Monthly; Largo, FL

110406202

Accutest Job Number: F24500

Sampling Date: 06/01/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **12**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

S M Stoller

Job No: F24500

Star Center-WWNA Monthly; Largo, FL
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24500-1	06/01/04	10:46 JC	06/01/04	AQ	Ground Water	PIN18-RW02-N001
F24500-2	06/01/04	10:43 JC	06/01/04	AQ	Ground Water	PIN18-RW03-N001
F24500-3	06/01/04	10:48 JC	06/01/04	AQ	Ground Water	PIN18-RW0501-N001
F24500-4	06/01/04	10:45 JC	06/01/04	AQ	Ground Water	PIN18-EFF1-N001
F24500-5	06/01/04	10:50 JC	06/01/04	AQ	Ground Water	PIN18-EFF2-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24500

Site: Star Center-WWNA Monthly; Largo, FL

Report Date 6/11/2004

5 Sample were collected on 06/01/2004 and were received at Accutest on 06/01/2004 properly preserved, at 3.6 Deg. C and intact. These Samples received an Accutest job number of F24500. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6750

All method blanks for this batch meet method specific criteria.

Samples F24505-1DUP, F24505-1MS, F24505-1MSD, F24505-1SDL were used as the QC samples for metals.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Date: June 17, 2004

Sue O. Bell, Project Manager (signature on file)

Report of Analysis

3.1
3

Client Sample ID: PIN18-RW02-N001 Lab Sample ID: F24500-1 Matrix: AQ - Ground Water Project: Star Center-WWNA Monthly; Largo, FL	Date Sampled: 06/01/04 Date Received: 06/01/04 Percent Solids: n/a
---	---

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	54.1	10	3.5	ug/l	1	06/04/04	06/07/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3832

(2) Prep QC Batch: MP6750

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

32
3

Client Sample ID: PIN18-RW03-N001	Date Sampled: 06/01/04
Lab Sample ID: F24500-2	Date Received: 06/01/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	230	10	3.5	ug/l	1	06/04/04	06/07/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3832

(2) Prep QC Batch: MP6750

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: PIN18-RW0501-N001 Lab Sample ID: F24500-3 Matrix: AQ - Ground Water Project: Star Center-WWNA Monthly; Largo, FL	Date Sampled: 06/01/04 Date Received: 06/01/04 Percent Solids: n/a
---	---

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3130	10	3.5	ug/l	1	06/04/04	06/07/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3832

(2) Prep QC Batch: MP6750

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

3.4
3

Client Sample ID: PIN18-EFF1-N001 Lab Sample ID: F24500-4 Matrix: AQ - Ground Water Project: Star Center-WWNA Monthly; Largo, FL	Date Sampled: 06/01/04 Date Received: 06/01/04 Percent Solids: n/a
---	---

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	43.4	10	3.5	ug/l	1	06/04/04	06/07/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3832

(2) Prep QC Batch: MP6750

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

3.5
3

Client Sample ID: PIN18-EFF2-N001	Date Sampled: 06/01/04
Lab Sample ID: F24500-5	Date Received: 06/01/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	06/04/04	06/07/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3832

(2) Prep QC Batch: MP6750

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F24500**
 Client: S.M. Stoller Project: STAR center - WUNA Monthly
 Date Received: 6/1/04 Time Received: 17:20
 # of Coolers Received: 1 Cooler Temperatures: 3.6°C
 Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number: _____

Cooler Custody Seals Intact ?	<u>Yes</u>	No
Chain of Custody Provided ?	<u>Yes</u>	No
COC Match Bottle Label ID's ?	<u>Yes</u>	No
Sample Labels Present on all bottles ?	<u>Yes</u>	No
All Analyses Marked On COC ?	<u>Yes</u>	No
Are All Bottles Intact ?	<u>Yes</u>	No
Samples Preserved Correctly ?	<u>Yes</u>	No
Correct Number of Containers Used ?	<u>Yes</u>	No
Sufficient Sample Volume ?	<u>Yes</u>	No
Trip Blank Provided ?	Yes	<u>No</u>
Trip Blank on COC ?	Yes	<u>No</u>
Trip Blank Intact ?	Yes	No <u>N/A</u>
Trip Blank Matrix ?	Soil	Water <u>N/A</u>
Number of Encores ?	<u>0</u>	
Number of Soil Field Kits ?	<u>0</u>	

Summary of Comments: _____

Signature: Jeff Mitchell Date: 6/1/04
 Review Signature: _____

ASBD 12/30/03

4.1
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F24500: Chain of Custody
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