



07/19/04

Technical Report for

S M Stoller

Monthly Sampling (Pinellas Co), STAR Center, Largo, FL

110406202

Accutest Job Number: F23259

Sampling Date: 04/06/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 8



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: F23259

Monthly Sampling (Pinellas Co), STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F23259-1	04/06/04	10:47 JPC	04/06/04	AQ	Ground Water	PIN15-EFF2-N001* NE SITE

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

Client: S M Stoller

Job No: F23259

Site: Monthly Sampling (Pinellas Co), STAR Center, Largo,

Report Date: 4/20/2004

1 Sample was 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 F23259. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

All method specified holding times, calibrations and quality control performance criteria were met.

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 that 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

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Client Sample ID: PIN15-EFF2-N001* NE SITE	
Lab Sample ID: F23259-1	Date Sampled: 04/06/04
Matrix: AQ - Ground Water	Date Received: 04/06/04
Method: EPA 624	Percent Solids: n/a
Project: Monthly Sampling (Pinellas Co), STAR Center, Largo, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	J007014.D	1	04/17/04	RA	n/a	n/a	VJ304
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		86-115%
17060-07-0	1,2-Dichloroethane-D4	107%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

(a) Sample collected on 04/06/04 at 10:47.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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

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: F23259
 Client: S.M. Stoller Project: STAR center
 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: Carol Ray Date: 4/6/04
 Review Signature: _____

ASBD 12/30/03

F23259: 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: F23262

Sampling Date: 04/06/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **20**



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: F23262

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F23262-1	04/06/04	10:04 JPC	04/06/04	AQ	Ground Water	PIN12-RW01-N001
F23262-2	04/06/04	10:06 JPC	04/06/04	AQ	Ground Water	PIN12-RW02-N001
F23262-3	04/06/04	10:39 JPC	04/06/04	AQ	Ground Water	PIN15-INF1-N001
F23262-4	04/06/04	10:46 JPC	04/06/04	AQ	Ground Water	PIN15-EFF1-N001

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

Client: S M Stoller

Job No: F23262

Site: Monthly Sampling, STAR Center, Largo, FL

Report Date 4/22/2004

4 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 F23262. 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 EPA 624

Matrix: AQ

Batch ID: VJ304

Samples F23339-1MS, F23339-1MSD 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 outside control limits. RPD for 2-Chloroethyl vinyl ether is outside control limits The Blank Spike was within control limits. Data not adversely affected.

Matrix: AQ

Batch ID: VJ307

All method blanks for this batch passed with no positive results

Samples F23262-3MS, F23262-3MSD were used as the QC samples indicated.

Matrix: AQ

Batch ID: VJ310

All method blanks for this batch passed with no positive results

Samples F23262-3MS, F23262-3MSD were used as the QC samples indicated.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VC977

All method blanks for this batch passed with no positive results

Samples F23282-7MS, F23282-7MSD were used as the QC samples indicated.

Matrix: AQ

Batch ID: VC978

Samples F23346-2MS, F23346-2MSD were used as the QC samples indicated.

All method blanks for this batch passed with no positive results

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6558

All samples were digested within holding time for method

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

All method blanks for this batch passed with no positive results.

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 that 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:	PIN12-RW01-N001	
Lab Sample ID:	F23262-1	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	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0022631.D	1	04/19/04	KW	n/a	n/a	VC977
Run #2	C0022649.D	100	04/20/04	KW	n/a	n/a	VC978

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.63	1.0	0.50	ug/l	J
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	4.5	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	8.5	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	51.8	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	2940 ^a	100	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	70.2	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	0.52	1.0	0.50	ug/l	J
127-18-4	Tetrachloroethylene	12.8	1.0	0.50	ug/l	
108-88-3	Toluene	2.8	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	6130 ^a	100	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

3.1
3

Client Sample ID: PIN12-RW01-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-1		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	845 ^a	100	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	100%	100%	86-115%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	73-126%
2037-26-5	Toluene-D8	97%	97%	86-112%
460-00-4	4-Bromofluorobenzene	98%	103%	83-119%

(a) Result is from Run# 2

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: PIN12-RW02-N001	
Lab Sample ID: F23262-2	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	C0022632.D	1	04/19/04	KW	n/a	n/a	VC977
Run #2	C0022650.D	10	04/20/04	KW	n/a	n/a	VC978

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

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	0.67	1.0	0.50	ug/l	J
75-35-4	1,1-Dichloroethylene	25.7	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	674 ^a	10	5.0	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	74.3	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	499 ^a	10	5.0	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: PIN12-RW02-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-2		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	92.1	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%	100%	86-115%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	73-126%
2037-26-5	Toluene-D8	99%	99%	86-112%
460-00-4	4-Bromofluorobenzene	101%	101%	83-119%

(a) Result is from Run# 2

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:	PIN15-INF1-N001		
Lab Sample ID:	F23262-3	Date Sampled:	04/06/04
Matrix:	AQ - Ground Water	Date Received:	04/06/04
Method:	EPA 624	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J007012.D	10	04/17/04	RA	n/a	n/a	VJ304
Run #2	J007054.D	50	04/18/04	RA	n/a	n/a	VJ307
Run #3	J007110.D	50	04/20/04	RA	n/a	n/a	VJ310

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.8	10	5.0	ug/l	J
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
75-00-3	Chloroethane	ND	10	10	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	14.2	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1840 ^a	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	13.9	10	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
74-83-9	Methyl bromide	ND	10	10	ug/l	
74-87-3	Methyl chloride	ND	10	10	ug/l	
75-09-2	Methylene chloride	1720 ^b	50	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	10	5.0	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:	PIN15-INF1-N001	
Lab Sample ID:	F23262-3	Date Sampled: 04/06/04
Matrix:	AQ - Ground Water	Date Received: 04/06/04
Method:	EPA 624	Percent Solids: n/a
Project:	Monthly Sampling, STAR Center, Largo, FL	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	194	10	5.0	ug/l	
79-01-6	Trichloroethylene	989 ^b	50	25	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	6.0	ug/l	
75-01-4	Vinyl chloride	802	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	99%	99%	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	105%	106%	107%	73-126%
2037-26-5	Toluene-D8	98%	102%	100%	86-112%
460-00-4	4-Bromofluorobenzene	103%	103%	103%	83-119%

(a) Result is from Run# 3

(b) Result is from Run# 2

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: PIN15-INF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-3		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
Iron	3630	300	48	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: PIN15-INF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-3		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	435	4.0	mg/l	1	04/13/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PIN15-EFF1-N001	
Lab Sample ID:	F23262-4	Date Sampled: 04/06/04
Matrix:	AQ - Ground Water	Date Received: 04/06/04
Method:	EPA 624	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	J007013.D	1	04/17/04	RA	n/a	n/a	VJ304
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	1.1	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	14.2	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: PIN15-EFF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-4		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
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	100%		86-115%
17060-07-0	1,2-Dichloroethane-D4	106%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	103%		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

3.4
3

Client Sample ID: PIN15-EFF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-4		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
Iron	3090	300	48	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: PIN15-EFF1-N001		Date Sampled: 04/06/04
Lab Sample ID: F23262-4		Date Received: 04/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	446	4.0	mg/l	1	04/13/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES			
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bryan Dairy Rd, Suite 260</u> <u>Largo FL 33777</u> CITY, STATE ZIP Keith Miller SEND REPORT TO: <u>970-248-6598</u> PHONE #		PROJECT NAME: <u>STAR Center - Monthly sampling</u> LOCATION: <u>Largo, FL</u> PROJECT NO.: <u>110406202</u> On-site contact: <u>Julian Caballero</u> FAX #: <u>727-549-1121</u>				VOCs - 624 VOCs - 8260 Fe + Hardness				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL BL - BLDUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID			
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION						LAB USE ONLY		
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NOI	NOI+H	NOI+H+O	NOI+H+O+P		NOI+H+O+P+M	
1	PIN12-RW01-N001	4-6-04	1004	af	GW	3	3					3	
2	PIN12-RW02-N001		1006	af	GW	3	3					3	
3	PIN15-TNF1-N001		1039	af	GW	4	3	1				3	1
4	PIN15-EFF1-N001		1046	af	GW	4	3	1				3	1
DATA TURNAROUND INFORMATION <input checked="" type="checkbox"/> STANDARD <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		DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS 							
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY													
RELINQUISHED BY: <u>C.P. Caballero</u>	DATE TIME: <u>4-6-04/ 12:15</u>	RECEIVED BY: <u>J. Caballero</u>	DATE TIME: <u>4/6/04 12:15</u>	RELINQUISHED BY: <u>J. Caballero</u>	DATE TIME: <u>4/6/04</u>	RECEIVED BY: <u>Julian Caballero</u>	DATE TIME: <u>19:55</u>						
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	ON ICE	TEMPERATURE						

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ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F23 262
 Client: S.M. Stoller Project: Star Center
 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 ? Yes No
 Chain of Custody Provided ? Yes No
 COC Match Bottle Label ID's ? Yes No
 Sample Labels Present on all bottles ? Yes No
 All Analyses Marked On COC ? Yes No
 Are All Bottles Intact ? Yes No
 Samples Preserved Correctly ? Yes No
 Correct Number of Containers Used ? Yes No
 Sufficient Sample Volume ? Yes No
 Trip Blank Provided ? Yes No
 Trip Blank on COC ? Yes No
 Trip Blank Intact ? Yes No N/A
 Trip Blank Matrix ? Soil Water N/A
 Number of Encores ? 0
 Number of Soil Field Kits ? 0

Summary of Comments: _____

Signature: *Carlos* Date: 4/6/04
 Review Signature: _____

ASBD 12/30/03

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4

F23262: Chain of Custody
 Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Mid-Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F23554

Sampling Date: 04/20/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **15**



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: F23554

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F23554-1	04/20/04	10:18 JC	04/21/04	AQ	Ground Water	PIN15-INF1-N001
F23554-2	04/20/04	10:25 JC	04/21/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller

Job No: F23554

Site: Mid-Monthly Sampling, STAR Center, Largo, FL

Report Date 5/5/2004

2 Sample were collected on 04/20/2004 and were received at Accutest on 04/21/2004 properly preserved, at 3.8 Deg. C and intact. These Samples received an Accutest job number of F23554. 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 EPA 624

Matrix: AQ

Batch ID: VC986

All samples were run within holding times.

All method blanks for this batch passed with no positive results

Samples F23554-2MS, F23554-2MSD were used as the QC samples indicated.

Recoveries for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Chloroethyl vinyl ether, Bromodichloromethane, Bromoform, Chloroform, cis-1,3-Dichloropropene, Dibromochloromethane, m,p-Xylene, Methyl Tert Butyl Ether, Methylene chloride, o-Dichlorobenzene, trans-1,3-Dichloropropene, Carbon tetrachloride, Chloroethane, Ethylbenzene, Tetrachloroethylene, Toluene, Trichlorofluoromethane, Vinyl chloride, are outside control limits. The Blank Spike is within control limits. Data not adversely affected.

Matrix: AQ

Batch ID: VG1035

All samples were run within holding times.

Sample F23511-4MS was used as the QC samples indicated.

All method blanks for this batch passed with no positive results

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

F23554-2 (PIN15-EFF1-N001): Sample was treated with an anti-foaming agent.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6609

All samples were run within holding times.

All samples were digested within holding time for method

All method blanks for this batch passed with no positive results

Samples F23522-52DUP, F23522-52MS, F23522-52MSD, F23522-52SDL were used as the QC samples for metals.

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: May 05, 2004

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

Report of Analysis

Client Sample ID:	PIN15-INF1-N001	
Lab Sample ID:	F23554-1	Date Sampled: 04/20/04
Matrix:	AQ - Ground Water	Date Received: 04/21/04
Method:	EPA 624	Percent Solids: n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0022884.D	10	04/30/04	KW	n/a	n/a	VC986
Run #2	G0027974.D	20	04/30/04	JG	n/a	n/a	VG1035

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
75-00-3	Chloroethane	ND	10	10	ug/l	
67-66-3	Chloroform	55.7	10	5.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	9.3	10	5.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1020 ^a	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	22.9	10	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
74-83-9	Methyl bromide	ND	10	10	ug/l	
74-87-3	Methyl chloride	ND	10	10	ug/l	
75-09-2	Methylene chloride	ND	10	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
79-01-6	Trichloroethylene	1320 ^a	20	10	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

3.1
3

Client Sample ID: PIN15-INF1-N001		Date Sampled: 04/20/04
Lab Sample ID: F23554-1		Date Received: 04/21/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: Mid-Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	6.0	ug/l	
75-01-4	Vinyl chloride	202	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	101%	86-115%
17060-07-0	1,2-Dichloroethane-D4	105%	97%	73-126%
2037-26-5	Toluene-D8	104%	93%	86-112%
460-00-4	4-Bromofluorobenzene	95%	97%	83-119%

(a) Result is from Run# 2

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:	PIN15-INF1-N001	
Lab Sample ID:	F23554-1	Date Sampled: 04/20/04
Matrix:	AQ - Ground Water	Date Received: 04/21/04
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL	Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5060	300	48	ug/l	1	04/23/04	04/26/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3778

(2) Prep QC Batch: MP6609

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

3.1
3

Client Sample ID: PIN15-INF1-N001		Date Sampled: 04/20/04
Lab Sample ID: F23554-1		Date Received: 04/21/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Mid-Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	379	4.0	mg/l	1	05/04/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PIN15-EFF1-N001		
Lab Sample ID:	F23554-2	Date Sampled:	04/20/04
Matrix:	AQ - Ground Water	Date Received:	04/21/04
Method:	EPA 624	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0027975.D	1	04/30/04	JG	n/a	n/a	VG1035
Run #2 ^b	C0022877.D	1	04/29/04	KW	n/a	n/a	VC986

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

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	9.9	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

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3

Client Sample ID: PIN15-EFF1-N001		Date Sampled: 04/20/04
Lab Sample ID: F23554-2		Date Received: 04/21/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: Mid-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	99%	62%	86-115%
17060-07-0	1,2-Dichloroethane-D4	92%	35%	73-126%
2037-26-5	Toluene-D8	94%	147%	86-112%
460-00-4	4-Bromofluorobenzene	94%	94%	83-119%

- (a) Sample was treated with an anti-foaming agent.
- (b) Confirmation run.

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: PIN15-EFF1-N001	
Lab Sample ID: F23554-2	Date Sampled: 04/20/04
Matrix: AQ - Ground Water	Date Received: 04/21/04
	Percent Solids: n/a
Project: Mid-Monthly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4120	300	48	ug/l	1	04/23/04	04/26/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3778

(2) Prep QC Batch: MP6609

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:	PIN15-EFF1-N001	Date Sampled:	04/20/04
Lab Sample ID:	F23554-2	Date Received:	04/21/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	371	4.0	mg/l	1	05/04/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #:

ACCUTEST LOT #:

F23554

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 Keith Miller SEND REPORT TO: PHONE # 970-248-6598			PROJECT NAME: STAR Center - Mid-month samp. LOCATION: Largo, FL PROJECT NO.: 110406202 Onsite contact: Julian Caballero FAX #: 727-549-1121				VOCs - 624 Feat Hardness										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	NO. OF BOTTLES	PRESERVATION										LAB USE ONLY	
		DATE	TIME	SAMPLED BY:			REF	INHIB	PHOS	HERB	NONE							
①	PINIS-INFI-N001	4-20-04	1018	af	GW	4	3	1										
②	PINIS-EFFI-N001	4-20-04	1025	af	GW	4	3	1										
DATA TURNAROUND INFORMATION <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			DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS 											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE	TEMPERATURE			
Chap. P. Car	4-20-04 11410	1. C. Munoz	2. Coc IN cooler	4/21/04 11410	2. Carbo							38	<input type="checkbox"/>	<input type="checkbox"/>	C			
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE	TEMPERATURE			
3.		3.	4.		4.								<input type="checkbox"/>	<input type="checkbox"/>				
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE	TEMPERATURE			
5.		5.											<input type="checkbox"/>	<input type="checkbox"/>				

4.1
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F23554: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F23554
 Client: S.M. Stoller Project: Star Center
 Date Received: 4/21/04 Time Received: 08:40
 # of Coolers Received: 1 Cooler Temperatures: 38
 Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number: _____

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

Summary of Comments: _____

Signature: Carol Rg Date: 4/21/04
 Review Signature: _____

ASBD 12/30/03

F23554: Chain of Custody
 Page 2 of 2

4.1
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07/19/04

Technical Report for

S M Stoller

STAR Center- N.E. Site Start-Up; Largo, FL

110402103

Accutest Job Number: F23897

Sampling Date: 05/05/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **19**



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: F23897

STAR Center- N.E. Site Start-Up; Largo, FL
Project No: 110402103

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F23897-1	05/05/04	15:00 JC	05/06/04	AQ	Ground Water	PIN12-TRTI-N001
F23897-2	05/05/04	15:10 JC	05/06/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F23897

Site: STAR Center- N.E. Site Start-Up; Largo, FL

Report Date 5/17/2004

2 Samples were collected on 05/05/2004 and were received at Accutest on 05/06/2004 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of F23897. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Sample Ids were changed to PIN20, per Cathy Kelleher via e-mail. Both samples were treated with an anti-foaming agent and are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VG1045

All samples were analyzed within the recommended method holding time.

Samples F23898-2MS, F23898-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 2-Chloroethyl vinyl ether are outside control limits in the MS/MSD. RPD for 1,1,1-Trichloroethane is outside control limits. The Blank Spike was within limits. Data not adversely affected.

Matrix: AQ

Batch ID:

VG1047

All samples were analyzed within the recommended method holding time.

Samples F23905-4MS, F23905-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 2-Chloroethyl vinyl ether are outside control limits in the MS/MSD. RPDs for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, Bromoform, Methyl bromide, Methyl Tert Butyl Ether are outside control limits The Blank Spike was within limits, except where noted below. Data not adversely affected.

Blank Spike Recoveries for Tetrachloroethylene, Trichloroethylene are above control limits. All associated samples are non-detect for these compounds. Data not adversely affected.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10371

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F23905-5MS, F23905-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Chloronaphthalene, 2-Nitrophenol,

3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Chloroaniline, 4-Nitroaniline, 4-Nitrophenol, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Indeno(1,2,3-cd)pyrene, N-Nitroso-di-n-propylamine, Pentachlorophenol, Phenanthrene, 4-Dimethylphenol, 2-Methylphenol, 3&4-Methylphenol, Naphthalene, Phenol are outside control limits in the MS/MSD.

RPDs for 2,6-Dinitrotoluene, 2-Nitroaniline are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6660

All samples were analyzed within the recommended method holding time.

Samples F23865-3DUP, F23865-3MS, F23865-3MSD, F23865-3SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

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 17, 2004

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

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F23897-1	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0028188.D	1	05/06/04	RAW	n/a	n/a	VG1045
Run #2	G0028226.D	20	05/07/04	RAW	n/a	n/a	VG1047

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

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	1.1	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	2.1	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	24.0	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	1690 ^b	20	10	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	41.4	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	210 ^b	20	10	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: PIN12-TRTI-N001		Date Sampled: 05/05/04
Lab Sample ID: F23897-1		Date Received: 05/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- N.E. Site Start-Up; 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	242 ^b	20	10	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	97%	102%	86-115%
17060-07-0	1,2-Dichloroethane-D4	96%	94%	73-126%
2037-26-5	Toluene-D8	95%	92%	86-112%
460-00-4	4-Bromofluorobenzene	107%	99%	83-119%

- (a) Sample was treated with an anti-foaming agent.
- (b) Result is from Run# 2

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: PIN12-TRTI-N001	Date Sampled: 05/05/04
Lab Sample ID: F23897-1	Date Received: 05/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4700	300	48	ug/l	1	05/07/04	05/11/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3797

(2) Prep QC Batch: MP6660

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:	PIN12-TRTI-N001	Date Sampled:	05/05/04
Lab Sample ID:	F23897-1	Date Received:	05/06/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	STAR Center- N.E. Site Start-Up; Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	334	4.0	mg/l	1	05/12/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F23897-2	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0028227.D	1	05/07/04	RAW	n/a	n/a	VG1047
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	2.8	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: PIN12-TRTE-N001	
Lab Sample ID: F23897-2	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; 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	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	92%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F23897-2	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021435.D	1	05/10/04	ME	05/07/04	OP10371	SL1154
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	5.1	2.0	ug/l	
	3&4-Methylphenol	ND	5.1	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.1	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.1	1.0	ug/l	
218-01-9	Chrysene	ND	5.1	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	2.0	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: PIN12-TRTE-N001	
Lab Sample ID: F23897-2	Date Sampled: 05/05/04
Matrix: AQ - Ground Water	Date Received: 05/06/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	2.0	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.1	1.0	ug/l	
86-73-7	Fluorene	ND	5.1	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.1	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	2.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	2.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	ND	5.1	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.1	1.0	ug/l	
129-00-0	Pyrene	ND	5.1	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		19-90%
4165-62-2	Phenol-d5	22%		10-68%
118-79-6	2,4,6-Tribromophenol	73%		36-137%

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

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3

Client Sample ID: PIN12-TRTE-N001		Date Sampled: 05/05/04
Lab Sample ID: F23897-2		Date Received: 05/06/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 625 EPA 625		
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		49-119%
321-60-8	2-Fluorobiphenyl	68%		45-118%
1718-51-0	Terphenyl-d14	72%		46-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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: PIN12-TRTE-N001	Date Sampled: 05/05/04
Lab Sample ID: F23897-2	Date Received: 05/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4650	300	48	ug/l	1	05/07/04	05/11/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3797

(2) Prep QC Batch: MP6660

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: PIN12-TRTE-N001	Date Sampled: 05/05/04
Lab Sample ID: F23897-2	Date Received: 05/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	332	4.0	mg/l	1	05/12/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F23897

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION										MATRIX CODES	
NAME: <u>S M Stoller</u> ADDRESS: <u>7087 Bryan Dalry Rd</u> ^{Suite 260} <u>Largo FL 33777</u> CITY, STATE, ZIP: <u>Largo FL 33777</u> SEND REPORT TO: <u>Keith Miller</u> PHONE #: <u>970.248.6528</u>			PROJECT NAME: <u>STAR Center - NE Site Start-up</u> LOCATION: <u>Largo, FL</u> <u>11040 2103 (727) 224 5195</u> PROJECT NO.: <u>Onsite Contact: Barry Rice</u> FAX #: <u>727 549 1121</u>			VOC's - 624 SVOC's - 625 Fe + hardness										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	DUP BOTTLES	PRESERVATION										LAB USE ONLY
		DATE	TIME	SAMPLED BY:			HT	NR	NR	NR	NR	NR					
1)	PIN15-TRTE-NOO1	5-5-04	1500	MSH	GW	4	3	1							3	1	
2)	PIN15-TRTE-NOO1	5-5-04	1510	MSH	↓	6	3	1	2						3	2	1
DATA TURNAROUND INFORMATION <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____			COMMENTS/REMARKS <u>1st of 5 daily rush samples for NE site start-up</u>											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
RELINQUISHED BY SAMPLER: <u>1. [Signature]</u>	DATE TIME: <u>5-5-04</u>	RECEIVED BY: <u>1. [Signature]</u>	DATE TIME: <u>5-5-04</u>	RELINQUISHED BY: <u>2. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RECEIVED BY: <u>2. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RELINQUISHED BY: <u>3. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RECEIVED BY: <u>3. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RELINQUISHED BY: <u>4. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RECEIVED BY: <u>4. [Signature]</u>	DATE TIME: <u>05/06/04</u>	RECEIVED BY: <u>4. [Signature]</u>	
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 <u>4.2</u> C		

4.1
4

F23897: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F23897

Accutest's Job Number: _____

Client: SM Sbtca Project: NE site start up

Date Received: 05/06/04 Time Received: 0800

of Coolers Received: 1 Cooler Temperatures: 4.2

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

Cooler Custody Seals Intact ? Yes No

Chain of Custody Provided ? Yes No

COC Match Bottle Label ID's ? Yes No

Sample Labels Present on all bottles ? Yes No

All Analyses Marked On COC ? Yes No

Are All Bottles Intact ? Yes No

Samples Preserved Correctly ? Yes No

Correct Number of Containers Used ? Yes No

Sufficient Sample Volume ? Yes No

Trip Blank Provided ? Yes No

Trip Blank on COC ? Yes No

Trip Blank Intact ? Yes No N/A

Trip Blank Matrix ? Soil Water N/A

Number of Encores ? 0

Number of Soil Field Kits ? 0

Summary of Comments: _____

Signature: [Signature] Date: 05/06/04

Review Signature: _____

ASBD 12/30/03

4.1
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F23897: Chain of Custody
Page 2 of 2



07/19/04

Technical Report for

S M Stoller

STAR Center- N.E. Site Start-Up; Largo, FL

110406202

Accutest Job Number: F24033

Sampling Date: 05/10/04

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: F24033

STAR Center- N.E. Site Start-Up; Largo, FL
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24033-1	05/10/04	16:11 JC	05/11/04	AQ	Ground Water	PIN12-TRTI-N001
F24033-2	05/10/04	16:06 JC	05/11/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24033

Site: STAR Center- N.E. Site Start-Up; Largo, FL

Report Date 5/20/2004

2 Samples were collected on 05/10/2004 and were received at Accutest on 05/11/2004 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F24033. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Samples IDs were to be changed to PIN12, per Cathy Kelleher.

All volatile samples were treated with an anti-foaming agent and are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1000

All samples were analyzed within the recommended method holding time.

Samples F23972-1MS, F23972-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 2-Chloroethyl vinyl ether, m-Dichlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

Matrix: AQ

Batch ID: VC1001

All samples were analyzed within the recommended method holding time.

Samples F24033-1MS, F24033-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 2-Chloroethyl vinyl ether, cis-1,2-Dichloroethylene are outside control limits in the MS/MSD. RPD for 2-Chloroethyl vinyl ether is outside control limits The Blank Spike was within limits. Data not adversely affected.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10438

All samples were analyzed within the recommended method holding time.

All samples were extracted within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24061-2MS, F24061-2MSD were used as the QC samples indicated.

OP10438-Method Blank had a detect of 1,4-Dichlorobenzene at a level less than the reporting limit but greater than the method detection limit. Compound non-detect in associated samples. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6678

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F23908-2DUP, F23908-2MS, F23908-2MSD, F23908-2SDL 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: May 21, 2004

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

Report of Analysis

Client Sample ID:	PIN12-TRTI-N001	Date Sampled:	05/10/04
Lab Sample ID:	F24033-1	Date Received:	05/11/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	STAR Center- N.E. Site Start-Up; Largo, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023245.D	1	05/11/04	KW	n/a	n/a	VC1000
Run #2	C0023255.D	10	05/12/04	KW	n/a	n/a	VC1001
Run #3	C0023258.D	20	05/12/04	KW	n/a	n/a	VC1001

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

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	1.2	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	11.8	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	1120 ^b	20	10	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	22.0	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	

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

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3

Client Sample ID: PIN12-TRTI-N001		Date Sampled: 05/10/04
Lab Sample ID: F24033-1		Date Received: 05/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	377 ^c	10	5.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.60	ug/l	
75-01-4	Vinyl chloride	105 ^c	10	5.0	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	Run# 3	Limits
1868-53-7	Dibromofluoromethane	108%	105%	105%	86-115%
17060-07-0	1,2-Dichloroethane-D4	94%	95%	96%	73-126%
2037-26-5	Toluene-D8	99%	101%	100%	86-112%
460-00-4	4-Bromofluorobenzene	109%	113%	111%	83-119%

- (a) Sample was treated with an anti-foaming agent.
- (b) Result is from Run# 3
- (c) Result is from Run# 2

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: PIN12-TRTI-N001	Date Sampled: 05/10/04
Lab Sample ID: F24033-1	Date Received: 05/11/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4200	300	48	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

3.1
3

Client Sample ID: PIN12-TRTI-N001		Date Sampled: 05/10/04
Lab Sample ID: F24033-1		Date Received: 05/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	349	4.0	mg/l	1	05/13/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24033-2	Date Sampled: 05/10/04
Matrix: AQ - Ground Water	Date Received: 05/11/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023254.D	1	05/12/04	KW	n/a	n/a	VC1001
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	1.4	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: PIN12-TRTE-N001		Date Sampled: 05/10/04
Lab Sample ID: F24033-2		Date Received: 05/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- N.E. Site Start-Up; 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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	117%		83-119%

(a) Sample was treated with an anti-foaming agent.

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:	PIN12-TRTE-N001	
Lab Sample ID:	F24033-2	Date Sampled: 05/10/04
Matrix:	AQ - Ground Water	Date Received: 05/11/04
Method:	EPA 625 EPA 625	Percent Solids: n/a
Project:	STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021516.D	1	05/17/04	ME	05/14/04	OP10438	SL1158
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	5.1	2.0	ug/l	
	3&4-Methylphenol	ND	5.1	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.1	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.1	1.0	ug/l	
218-01-9	Chrysene	ND	5.1	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	2.0	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:	PIN12-TRTE-N001	
Lab Sample ID:	F24033-2	Date Sampled: 05/10/04
Matrix:	AQ - Ground Water	Date Received: 05/11/04
Method:	EPA 625 EPA 625	Percent Solids: n/a
Project:	STAR Center- N.E. Site Start-Up; Largo, FL	

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	2.0	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.1	1.0	ug/l	
86-73-7	Fluorene	ND	5.1	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.1	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	2.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	2.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	ND	5.1	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.1	1.0	ug/l	
129-00-0	Pyrene	ND	5.1	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		19-90%
4165-62-2	Phenol-d5	28%		10-68%
118-79-6	2,4,6-Tribromophenol	87%		36-137%

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: PIN12-TRTE-N001		Date Sampled: 05/10/04
Lab Sample ID: F24033-2		Date Received: 05/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 625 EPA 625		
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		49-119%
321-60-8	2-Fluorobiphenyl	74%		45-118%
1718-51-0	Terphenyl-d14	85%		46-135%

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: PIN12-TRTE-N001	Date Sampled: 05/10/04
Lab Sample ID: F24033-2	Date Received: 05/11/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4350	300	48	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:	PIN12-TRTE-N001	
Lab Sample ID:	F24033-2	Date Sampled: 05/10/04
Matrix:	AQ - Ground Water	Date Received: 05/11/04
Project:	STAR Center- N.E. Site Start-Up; Largo, FL	
		Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	346	4.0	mg/l	1	05/13/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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: F24033
 Client: S. M. Stoller Project: STAR CENTER - NE SITE stratified
 Date Received: 5/11/04 Time Received: 09:00

of Coolers Received: 1 Cooler Temperatures: 2-8

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	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: 5/11/04

Review Signature: _____

ASBD 12/30/03

F24033: Chain of Custody
 Page 2 of 2

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07/19/04

Technical Report for

S M Stoller

Monthly Sampling (Pinellas Co), STAR Center, Largo, FL

110406202

Accutest Job Number: F24060

Sampling Date: 05/11/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **8**



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: F24060

Monthly Sampling (Pinellas Co), STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F24060-1	05/11/04	13:54 JPC	05/12/04	AQ	Ground Water	PIN12-TRTE-N002*NE SITE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24060

Site: Monthly Sampling (Pinellas Co), STAR Center, Largo, FL

Report Date 5/17/2004

1 Sample was collected on 05/11/2004 and were received at Accutest on 05/12/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F24060. 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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1004

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24061-1MS, F24061-1MSD were used as the QC samples indicated.

F24060-1: Sample was treated with an anti-foaming agent and is footnoted accordingly.

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)

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

ACCUTEST JOB #:
ACCUTEST QUOTE #: **F24060**

CLIENT INFORMATION			FACILITY INFORMATION					ANALYTICAL INFORMATION										MATRIX CODES
S.M. Stoller NAME 7887 Bryan Dairy Rd, Suite 260 ADDRESS City, <u>Large</u> STATE <u>FL</u> ZIP <u>33777</u> SEND REPORT TO: PHONE # _____			STAR Center - NE Site monthly effluent PROJECT NAME LOCATION <u>110406202</u> PROJECT NO. FAX # _____					DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID										LAB USE ONLY
ACCUTEST SAMPLE # _____			COLLECTION DATE TIME SAMPLED BY:															
FIELD ID / POINT OF COLLECTION <u>PINIS-TRTE-N002 * NE Site</u>			DATE TIME SAMPLED BY: <u>5-11-04 1354 JPC</u>					MATRIX # OF BOTTLES (CO) (MO) (HO) (SO) (NO) <u>3 3</u>										BTX, Total VoAs - 624 3
DATA TURNAROUND INFORMATION <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			DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____					COMMENTS/REMARKS <u>Benzene Xylenes</u> <u>Toluene Total VoAs</u> <u>Ethylbenzene</u>										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
RELINQUISHED BY: <u>[Signature]</u> DATE TIME: <u>5-11-04</u>		RECEIVED BY: <u>1 [Signature]</u> DATE TIME: _____		RELINQUISHED BY: <u>2 [Signature]</u> DATE TIME: <u>5/11/04 1730</u>		RECEIVED BY: <u>2 [Signature]</u> DATE TIME: _____		RELINQUISHED BY: _____ DATE TIME: _____		RECEIVED BY: <u>4 [Signature]</u> DATE TIME: <u>5/12/04 08:00</u>		RELINQUISHED BY: _____ DATE TIME: _____		RECEIVED BY: _____ DATE TIME: _____				
3.		3.		4.		4.		5.		5.		SEAL # _____		PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE _____ C				

4.1
4

F24060: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number:

F24060

Client: S.M. Stoller

Project: STAR Center - NE Site monthly effluent

Date Received: 5/12/04

Time Received: 08:00

of Coolers Received: 1

Cooler Temperatures: 2.6°C

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

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

Summary of Comments: _____

Signature: [Signature] Date: 5/12/04

Review Signature: _____

ASBD 12/30/03

4.1
4

F24060: Chain of Custody
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07/19/04

Technical Report for

S M Stoller

STAR Center- N.E. Site Start-Up; Largo, FL

110406202

Accutest Job Number: F24061

Sampling Date: 05/11/04

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: F24061

STAR Center- N.E. Site Start-Up; Largo, FL
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24061-1	05/11/04	13:45 JPC	05/12/04	AQ	Ground Water	PIN12-TRTI-N001
F24061-2	05/11/04	13:50 JPC	05/12/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24061

Site: STAR Center- N.E. Site Start-Up; Largo, FL

Report Date 5/18/2004

2 Samples were collected on 05/11/2004 and were received at Accutest on 05/12/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F24061. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

All samples were treated with an anti-foaming agent except: F24061-1 (PIN12-TRT1-N001).

Samples Ids were to be changed to PIN12, per Cathy Kelleher.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1004

All samples were analyzed within the recommended method holding time.

Samples F24061-1MS, F24061-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

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

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10438

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F24061-2MS, F24061-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6680

All samples were analyzed within the recommended method holding time.

Samples F24061-1DUP, F24061-1MS, F24061-1MSD, F24061-1SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

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 21, 2004

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

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24061-1	Date Sampled: 05/11/04
Matrix: AQ - Ground Water	Date Received: 05/12/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023322.D	20	05/13/04	KW	n/a	n/a	VC1004
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	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1210	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	22.0	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	1060	20	10	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

3.1
3

Client Sample ID: PIN12-TRTI-N001		Date Sampled: 05/11/04
Lab Sample ID: F24061-1		Date Received: 05/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	123	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		86-115%
17060-07-0	1,2-Dichloroethane-D4	88%		73-126%
2037-26-5	Toluene-D8	96%		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: PIN12-TRTI-N001	Date Sampled: 05/11/04
Lab Sample ID: F24061-1	Date Received: 05/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5700	300	48	ug/l	1	05/13/04	05/14/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3803

(2) Prep QC Batch: MP6680

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: PIN12-TRTI-N001	Date Sampled: 05/11/04
Lab Sample ID: F24061-1	Date Received: 05/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	373	4.0	mg/l	1	05/17/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PIN12-TRTE-N001	
Lab Sample ID:	F24061-2	Date Sampled: 05/11/04
Matrix:	AQ - Ground Water	Date Received: 05/12/04
Method:	EPA 624	Percent Solids: n/a
Project:	STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023325.D	1	05/13/04	KW	n/a	n/a	VC1004
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	1.6	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	0.59	1.0	0.50	ug/l	J

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

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3

Client Sample ID: PIN12-TRTE-N001		Date Sampled: 05/11/04
Lab Sample ID: F24061-2		Date Received: 05/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- N.E. Site Start-Up; 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	107%		86-115%
17060-07-0	1,2-Dichloroethane-D4	89%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	105%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24061-2	Date Sampled: 05/11/04
Matrix: AQ - Ground Water	Date Received: 05/12/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021517.D	1	05/17/04	ME	05/14/04	OP10438	SL1158
Run #2							

Run #	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	2.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	2.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	2.1	ug/l	
	3&4-Methylphenol	ND	5.2	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	2.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	2.1	ug/l	
83-32-9	Acenaphthene	ND	5.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.0	ug/l	
120-12-7	Anthracene	ND	5.2	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	2.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	2.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.2	1.0	ug/l	
218-01-9	Chrysene	ND	5.2	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	2.1	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:	PIN12-TRTE-N001	
Lab Sample ID:	F24061-2	Date Sampled: 05/11/04
Matrix:	AQ - Ground Water	Date Received: 05/12/04
Method:	EPA 625 EPA 625	Percent Solids: n/a
Project:	STAR Center- N.E. Site Start-Up; Largo, FL	

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	2.1	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	2.1	ug/l	
132-64-9	Dibenzofuran	ND	5.2	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	2.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	2.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.2	1.0	ug/l	
86-73-7	Fluorene	ND	5.2	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.2	2.1	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	2.1	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	2.1	ug/l	
91-20-3	Naphthalene	ND	5.2	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	2.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	2.1	ug/l	
85-01-8	Phenanthrene	ND	5.2	1.0	ug/l	
129-00-0	Pyrene	ND	5.2	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		19-90%
4165-62-2	Phenol-d5	28%		10-68%
118-79-6	2,4,6-Tribromophenol	87%		36-137%

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

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3

Client Sample ID: PIN12-TRTE-N001		Date Sampled: 05/11/04
Lab Sample ID: F24061-2		Date Received: 05/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 625 EPA 625		
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		49-119%
321-60-8	2-Fluorobiphenyl	72%		45-118%
1718-51-0	Terphenyl-d14	82%		46-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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: PIN12-TRTE-N001	Date Sampled: 05/11/04
Lab Sample ID: F24061-2	Date Received: 05/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5140	300	48	ug/l	1	05/13/04	05/14/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3803

(2) Prep QC Batch: MP6680

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: PIN12-TRTE-N001		Date Sampled: 05/11/04
Lab Sample ID: F24061-2		Date Received: 05/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: STAR Center- N.E. Site Start-Up; Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	368	4.0	mg/l	1	05/17/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #:
ACCUTEST QUOTE #: **F24061**

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION										MATRIX CODES
S.M. Stoller NAME 7887 Bryan Dairy Rd, Suite 260 ADDRESS Largo FL 33777 CITY, STATE ZIP SEND REPORT TO: PHONE #		STAR Center - NE Site startup PROJECT NAME LOCATION 110406202 PROJECT NO. FAX #				VOCs - 624 SVOCs - 625 Fe + Hardness										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL BL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION					LAB USE ONLY				
		DATE	TIME	SAMPLED BY:			NO.	NO.	NO.	NO.	NO.		NO.			
1	PEN15-TRTE-N001	5-11-04	1345	JPC	GW	4	3	1				3	1			
2	PEN15-TRTE-N001	5-11-04	1350	JPC	GW	6	3	1	2			3	2	1		

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	Day 3 of 5

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY						
RELINQUISHED BY: <i>[Signature]</i>	DATE TIME: 5-11-04/	RECEIVED BY: 1. <i>[Signature]</i>	RELINQUISHED BY: 2. <i>[Signature]</i>	DATE TIME: 5/12/04/1330	RECEIVED BY: <i>[Signature]</i> 5/12/04 08:00	
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.	
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE	ON ICE	TEMPERATURE C

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24061

Client: S.M. Staller Project: STAR center - NE site startup

Date Received: 5/12/04 Time Received: 08:00

of Coolers Received: 1 Cooler Temperatures: 2.6°C

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

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

Summary of Comments: _____

Signature: [Signature] Date: 5/12/04

Review Signature: _____

ASBD 12/30/03

4.1
4

F24061: Chain of Custody
Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24134

Sampling Date: 05/13/04

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: F24134

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24134-1	05/13/04	09:50 JPC	05/14/04	AQ	Ground Water	PIN12-TRTI-N001
F24134-2	05/13/04	09:55 JPC	05/14/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24134

Site: Star Center-B100 Startup

Report Date 5/24/2004

2 Samples were collected on 05/13/2004 and were received at Accutest on 05/14/2004 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F24134. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

All Volatile samples were treated with an anti-foaming agent and are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1006

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24118-8MS, F24118-8MSD were used as the QC samples indicated.

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

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10438

All samples were analyzed within the recommended method holding time.

All samples were extracted within the recommended method holding time.

Samples F24061-2MS, F24061-2MSD were used as the QC samples indicated.

OP10438-Method Blank had a detect below the reporting limit, but above the method detection limit of 1,4-Dichlorobenzene.

Compound ND in associated samples. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6693

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24014-1DUP, F24014-1MS, F24014-1MSD, F24014-1SDL were used as the QC samples for metals.

RPD for Serial Dilution for Iron is outside control limits. The Blank Spike was within 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 24, 2004

Sue O. Bell, Project Manager

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24134-1	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023360.D	20	05/14/04	KW	n/a	n/a	VC1006
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	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	11.2	20	10	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1320	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	30.0	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	1520	20	10	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

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3

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24134-1	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	157	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		86-115%
17060-07-0	1,2-Dichloroethane-D4	90%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	109%		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: PIN12-TRTI-N001	Date Sampled: 05/13/04
Lab Sample ID: F24134-1	Date Received: 05/14/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5110	300	48	ug/l	1	05/17/04	05/18/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3807

(2) Prep QC Batch: MP6693

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

3.1
3

Client Sample ID: PIN12-TRTI-N001 Lab Sample ID: F24134-1 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 05/13/04 Date Received: 05/14/04 Percent Solids: n/a
--	---

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	359	4.0	mg/l	1	05/21/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24134-2	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023361.D	1	05/14/04	KW	n/a	n/a	VC1006
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	0.59	1.0	0.50	ug/l	J
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	0.52	1.0	0.50	ug/l	J

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: PIN12-TRTE-N001	
Lab Sample ID: F24134-2	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

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	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	88%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	107%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24134-2	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021522.D	1	05/17/04	ME	05/14/04	OP10438	SL1158
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	5.1	2.0	ug/l	
	3&4-Methylphenol	ND	5.1	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.1	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.1	1.0	ug/l	
218-01-9	Chrysene	ND	5.1	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	2.0	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:	PIN12-TRTE-N001	Date Sampled:	05/13/04
Lab Sample ID:	F24134-2	Date Received:	05/14/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	2.0	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.1	1.0	ug/l	
86-73-7	Fluorene	ND	5.1	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.1	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	2.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	2.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	ND	5.1	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.1	1.0	ug/l	
129-00-0	Pyrene	ND	5.1	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		19-90%
4165-62-2	Phenol-d5	29%		10-68%
118-79-6	2,4,6-Tribromophenol	88%		36-137%

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

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3

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24134-2	Date Sampled: 05/13/04
Matrix: AQ - Ground Water	Date Received: 05/14/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		49-119%
321-60-8	2-Fluorobiphenyl	76%		45-118%
1718-51-0	Terphenyl-d14	84%		46-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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

Report of Analysis

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3

Client Sample ID: PIN12-TRTE-N001 Lab Sample ID: F24134-2 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 05/13/04 Date Received: 05/14/04 Percent Solids: n/a
--	---

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4870	300	48	ug/l	1	05/17/04	05/18/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3807

(2) Prep QC Batch: MP6693

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: PIN12-TRTE-N001	Date Sampled: 05/13/04
Lab Sample ID: F24134-2	Date Received: 05/14/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	351	4.0	mg/l	1	05/21/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST ID#: **F24134**
ACCUTEST QUOTE#:

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION										MATRIX CODES
S.M. Stoller NAME 7887 Bryan Dairy Rd, Suite 260 ADDRESS Largo FL 33777 CITY STATE ZIP SEND REPORT TO: PHONE #			STAR Center - B100 start-up PROJECT NAME Largo, FL LOCATION 110406202 PROJECT NO. FAX #				VOCs - 624 SVOCs - 625 Fe + Hardness										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION							LAB USE ONLY					
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	IMP	MPOH	MPOC	MPOE							
①	PIN12-TRTE-N001	5-13-04	0950	JPC	GW	4	3	1					3	1			
②	PIN12-TRTE-N001	5-13-04	0955	JPC	GW	6	3	1	2				3	2	1		
DATA TURNAROUND INFORMATION <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS Day 4 of 5										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLE CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE TIME: 5-13-04/1411	RECEIVED BY: 1. <i>[Signature]</i>	DATE TIME: 5/13/04 14:11	RELINQUISHED BY: 2. <i>[Signature]</i>	DATE TIME: 5/13/04 18:55	RECEIVED BY: 2. <i>[Signature]</i>	DATE TIME: 5/14/04 08:10										
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		ON ICE									TEMPERATURE	C

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F24134: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24134
 Client: S.M. Stoller Project: STAR CENTER - B100 Startup
 Date Received: 5-14-04 Time Received: 08:00
 # of Coolers Received: 1 Cooler Temperatures: 3.2
 Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number: _____

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

Summary of Comments: Received 1 Amber LITER OF (625)
PUR Sample

Signature: [Signature] Date: 5/14/04
 Review Signature: _____

ASBD 12/30/03

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F24134: Chain of Custody
 Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24169

Sampling Date: 05/14/04

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: F24169

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24169-1	05/14/04	08:30 BNR	05/15/04	AQ	Ground Water	PIN12-TRTI-N001
F24169-2	05/14/04	08:20 BNR	05/15/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24169

Site: Star Center-B100 Startup

Report Date 5/24/2004

2 Samples were collected on 05/14/2004 and were received at Accutest on 05/15/2004 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F24169. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. All Volatile samples except for F24169-1 (PIN12-TRTI-N001) were treated with an anti-foaming agent and are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1011

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24169-1MS, F24169-1MSD were used as the QC samples indicated.

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

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10481

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24213-2MS, F24213-2MSD were used as the QC samples indicated.

Recoveries for Benzo(a)anthracene, Butyl benzyl phthalate, Chrysene, Phenanthrene are outside control

Limits in the MS/MSD. RPDs for 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dichlorophenol, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitrophenol, 3&4-Methylphenol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, Anthracene, Benzyl Alcohol, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Carbazole, Dibenzofuran, Fluoranthene, Fluorene, Hexachlorobutadiene, Hexachloroethane, Isophorone, N-Nitroso-di-n-propylamine, Naphthalene, Nitrobenzene, Phenanthrene, Phenol are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6697

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24086-2DUP, F24086-2MS, F24086-2MSD, F24086-2SDL were used as the QC samples for metals.

RPD for Serial Dilution for Iron is outside control limits. The Blank Spike was within 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 24, 2004

Sue O. Bell, Project Manager

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24169-1	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023467.D	20	05/19/04	KW	n/a	n/a	VC1011
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	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	12.0	20	10	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1350	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	28.6	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	1410	20	10	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

3.1
3

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24169-1	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	104	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	92%		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: PIN12-TRTI-N001	Date Sampled: 05/14/04
Lab Sample ID: F24169-1	Date Received: 05/15/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5300	300	48	ug/l	1	05/18/04	05/19/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3810

(2) Prep QC Batch: MP6697

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

31
3

Client Sample ID: PIN12-TRTI-N001	Date Sampled: 05/14/04
Lab Sample ID: F24169-1	Date Received: 05/15/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	373	4.0	mg/l	1	05/21/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24169-2	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023470.D	1	05/19/04	KW	n/a	n/a	VC1011
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	0.53	1.0	0.50	ug/l	J
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: PIN12-TRTE-N001	
Lab Sample ID: F24169-2	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

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	104%		86-115%
17060-07-0	1,2-Dichloroethane-D4	98%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24169-2	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W020072.D	1	05/20/04	ME	05/20/04	OP10481	SW1056
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	28	17	ug/l	
95-57-8	2-Chlorophenol	ND	5.6	2.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	2.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	28	11	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.6	ug/l	
95-48-7	2-Methylphenol	ND	5.6	2.2	ug/l	
	3&4-Methylphenol	ND	5.6	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	2.2	ug/l	
100-02-7	4-Nitrophenol	ND	28	11	ug/l	
87-86-5	Pentachlorophenol	ND	28	11	ug/l	
108-95-2	Phenol	ND	5.6	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	2.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	2.2	ug/l	
83-32-9	Acenaphthene	ND	5.6	1.1	ug/l	
208-96-8	Acenaphthylene	ND	5.6	1.1	ug/l	
120-12-7	Anthracene	ND	5.6	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.6	1.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.6	1.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.6	1.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.6	2.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.6	1.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.6	1.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.6	2.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.6	1.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.6	1.1	ug/l	
106-47-8	4-Chloroaniline	ND	11	3.3	ug/l	
86-74-8	Carbazole	ND	5.6	1.1	ug/l	
218-01-9	Chrysene	ND	5.6	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.6	1.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.6	2.2	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:	PIN12-TRTE-N001	Date Sampled:	05/14/04
Lab Sample ID:	F24169-2	Date Received:	05/15/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.6	1.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.6	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.6	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.6	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.6	1.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.6	2.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.6	2.2	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	11	5.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.6	2.2	ug/l	
132-64-9	Dibenzofuran	ND	5.6	1.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.6	2.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.6	2.8	ug/l	
84-66-2	Diethyl phthalate	ND	5.6	2.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.6	2.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.6	2.8	ug/l	
206-44-0	Fluoranthene	ND	5.6	1.1	ug/l	
86-73-7	Fluorene	ND	5.6	1.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.6	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.6	2.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.6	2.2	ug/l	
67-72-1	Hexachloroethane	ND	5.6	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.6	2.2	ug/l	
78-59-1	Isophorone	ND	5.6	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.6	1.1	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	2.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	2.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	2.2	ug/l	
91-20-3	Naphthalene	ND	5.6	1.1	ug/l	
98-95-3	Nitrobenzene	ND	5.6	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.6	2.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	2.2	ug/l	
85-01-8	Phenanthrene	ND	5.6	1.1	ug/l	
129-00-0	Pyrene	ND	5.6	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		19-90%
4165-62-2	Phenol-d5	33%		10-68%
118-79-6	2,4,6-Tribromophenol	85%		36-137%

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: PIN12-TRTE-N001	
Lab Sample ID: F24169-2	Date Sampled: 05/14/04
Matrix: AQ - Ground Water	Date Received: 05/15/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		49-119%
321-60-8	2-Fluorobiphenyl	81%		45-118%
1718-51-0	Terphenyl-d14	90%		46-135%

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

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Client Sample ID: PIN12-TRTE-N001	Date Sampled: 05/14/04
Lab Sample ID: F24169-2	Date Received: 05/15/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5410	300	48	ug/l	1	05/18/04	05/19/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3810

(2) Prep QC Batch: MP6697

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: PIN12-TRTE-N001	Date Sampled: 05/14/04
Lab Sample ID: F24169-2	Date Received: 05/15/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	386	4.0	mg/l	1	05/21/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES	
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bryan Dairy Rd, Suite 260</u> CITY: <u>Largo</u> STATE: <u>FL</u> ZIP: <u>33777</u> SEND REPORT TO: _____ PHONE # _____			PROJECT NAME: <u>STAR Center - Bio0 Startup</u> LOCATION: <u>Largo, FL</u> PROJECT NO.: _____ FAX # _____				VOCs - 624 SVOCs - 625 Fe + Hexachlor				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			MATRIX	# OF BOTTLES	PRESERVATION				LAB USE ONLY	
		DATE	TIME	SAMPLED BY:			REF	INCH	INSD	NONE		
1)	PI-N12-TRTI-N001	5-14-04	0830	BNR	Gw	4	3	1				
2)	PI-N12-TRTE-N001	5-14-04	0830	BNR	Gw	6	3	1	2			
DATA TURNAROUND INFORMATION <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS <u>Day 5 of 5</u>					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING CARRIER DELIVERY												
RELINQUISHED BY: 1. <u>[Signature]</u>	DATE TIME: <u>5/14/04</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>5/14/04 13:15</u>	RELINQUISHED BY: 2. <u>[Signature]</u>	DATE TIME: <u>13:10</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>3:20</u>					
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: _____	USAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>	TEMPERATURE _____					

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F24169**
Client: SM Solter Project: Stan Center Bio Setup
Date Received: 12/01/16 Time Received: 0800
of Coolers Received: 1 Cooler Temperatures: 3.2°

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
Air Bill Number:

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

Summary of Comments: _____

Signature: [Signature] Date: 12/01/16

Review Signature: _____

ASBD 12/30/03

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F24169: Chain of Custody
Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24235

Sampling Date: 05/18/04

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: F24235

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24235-1	05/18/04	11:06 JWW	05/19/04	AQ	Ground Water	PIN12-TRTI-N001
F24235-2	05/18/04	10:52 JWW	05/19/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24235

Site: Star Center-B100 Startup

Report Date 5/24/2004 4:55:53 PM

2 Samples were collected on 05/18/2004 and were received at Accutest on 05/19/2004 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F24235. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. All Volatile samples except for F24235-1 (PIN12-TRTI-N001) were treated with an anti-foaming agent and are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1013

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10481

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F24213-2MS, F24213-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for Benzo(a)anthracene, Butyl benzyl phthalate, Chrysene, Phenanthrene are outside control

Limits in the MS/MSD. RPDs for 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene,

2,4-Dichlorophenol, 2-Chlorophenol, 2-Methylnaphthalene, 2-Methylphenol, 2-Nitrophenol, 3&4-Methylphenol,

4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, Anthracene, Benzyl Alcohol, bis(2-Chloroethoxy)methane,

bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Carbazole, Dibenzofuran, Fluoranthene, Fluorene, Hexachlorobutadiene,

Hexachloroethane, Isophorone, N-Nitroso-di-n-propylamine, Naphthalene, Nitrobenzene, Phenanthrene, Phenol are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6705

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F23913-7DUP, F23913-7MS, F23913-7MSD, F23913-7SDL 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: May 24, 2004

Sue O. Bell, Project Manager

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24235-1	Date Sampled: 05/18/04
Matrix: AQ - Ground Water	Date Received: 05/19/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023500.D	20	05/20/04	KW	n/a	n/a	VC1013
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	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	18.2	20	10	ug/l	J
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1810	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	41.6	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	1530	20	10	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: PIN12-TRTI-N001	
Lab Sample ID: F24235-1	Date Sampled: 05/18/04
Matrix: AQ - Ground Water	Date Received: 05/19/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	180	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	96%		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: PIN12-TRTI-N001	Date Sampled: 05/18/04
Lab Sample ID: F24235-1	Date Received: 05/19/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6110	300	48	ug/l	1	05/20/04	05/21/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3812

(2) Prep QC Batch: MP6705

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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Client Sample ID: PIN12-TRTI-N001 Lab Sample ID: F24235-1 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 05/18/04 Date Received: 05/19/04 Percent Solids: n/a
--	---

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	360	4.0	mg/l	1	05/24/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24235-2	Date Sampled: 05/18/04
Matrix: AQ - Ground Water	Date Received: 05/19/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023501.D	1	05/20/04	KW	n/a	n/a	VC1013
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	3.6	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	0.89	1.0	0.50	ug/l	J

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:	PIN12-TRTE-N001	Date Sampled:	05/18/04
Lab Sample ID:	F24235-2	Date Received:	05/19/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Star Center-B100 Startup		

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	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24235-2	Date Sampled: 05/18/04
Matrix: AQ - Ground Water	Date Received: 05/19/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W020078.D	1	05/20/04	ME	05/20/04	OP10481	SW1056
Run #2							

Run #	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.1	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.1	ug/l	
95-48-7	2-Methylphenol	ND	5.1	2.0	ug/l	
	3&4-Methylphenol	ND	5.1	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.1	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.1	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	1.0	ug/l	
120-12-7	Anthracene	ND	5.1	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.0	ug/l	
86-74-8	Carbazole	ND	5.1	1.0	ug/l	
218-01-9	Chrysene	ND	5.1	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	2.0	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:	PIN12-TRTE-N001	Date Sampled:	05/18/04
Lab Sample ID:	F24235-2	Date Received:	05/19/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	2.0	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.1	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.1	1.0	ug/l	
86-73-7	Fluorene	ND	5.1	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.1	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
78-59-1	Isophorone	ND	5.1	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	2.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	2.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	ND	5.1	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.1	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.1	1.0	ug/l	
129-00-0	Pyrene	ND	5.1	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		19-90%
4165-62-2	Phenol-d5	27%		10-68%
118-79-6	2,4,6-Tribromophenol	83%		36-137%

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: PIN12-TRTE-N001	
Lab Sample ID: F24235-2	Date Sampled: 05/18/04
Matrix: AQ - Ground Water	Date Received: 05/19/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		49-119%
321-60-8	2-Fluorobiphenyl	80%		45-118%
1718-51-0	Terphenyl-d14	90%		46-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit

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: PIN12-TRTE-N001	Date Sampled: 05/18/04
Lab Sample ID: F24235-2	Date Received: 05/19/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5030	300	48	ug/l	1	05/20/04	05/21/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3812

(2) Prep QC Batch: MP6705

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: PIN12-TRTE-N001	Date Sampled: 05/18/04
Lab Sample ID: F24235-2	Date Received: 05/19/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	359	4.0	mg/l	1	05/24/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #: **F24235**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES	
S.M. Stoller NAME 7887 Bryan Dairy Rd., Suite 260 ADDRESS Largo FL 33777 CITY, STATE ZIP SEND REPORT TO: PHONE #		STAR Center - BIOD startup PROJECT NAME LOCATION 110406202 PROJECT NO. FAX #				104-624 5104-625 Fe + Hardness				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			MATRIX	PRESERVATION				LAB USE ONLY	
		DATE	TIME	SAMPLED BY:		# OF BOTTLES	NO. 1	NO. 2	NO. 3		NO. 4
1	PI112-TRTI-N001	5-18-04	1106	Jww Gw	4	3	1			3	1
2	PI112-TRTE-N001	5-18-04	1052	Jww Gw	6	3	1	2		3	2

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	Week 1 of 4

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
1. RELINQUISHED BY: <i>[Signature]</i>	DATE TIME: 5-18-04 1330	RECEIVED BY: <i>[Signature]</i>	DATE TIME: 5-18-04 1330	RELINQUISHED BY: <i>[Signature]</i>	DATE TIME: 5-18-04 1330
2. RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
3. RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
4. RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
5. RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:

F24235: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24235
Client: S.M. Stoller Project: Star Center - B100 Startup
Date Received: 5/19/04 Time Received: 8:00
of Coolers Received: 1 Cooler Temperatures: 3.2
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 <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: [Signature] Date: 5/19/04
Review Signature: _____

ASBD 12/30/03

4.1
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F24235: Chain of Custody
Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24380

Sampling Date: 05/25/04

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: F24380

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24380-1	05/25/04	11:20 JPC	05/25/04	AQ	Ground Water	PIN12-TRTI-N001
F24380-2	05/25/04	11:25 JPC	05/25/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24380

Site: Star Center-B100 Startup

Report Date 6/11/2004

2 Samples were collected on 05/25/2004 and were received at Accutest on 05/25/2004 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of F24380. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Volatile samples treated with a foaming agent are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1027

All samples were analyzed within the recommended method holding time.

Samples F24474-1MS, F24474-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

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

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10558

All samples were analyzed within the recommended method holding time.

All samples were extracted within the recommended method holding time.

Samples F24381-2MS, F24381-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for Chrysene, Pyrene are above control limits in the Blank Spike. The associated samples are non-detect for these compounds. Data not adversely affected.

Recoveries for 2,4,6-Trichlorophenol, Benzo(a)anthracene, Chrysene, Phenanthrene, Pyrene are outside control limits in the MS/MSD. The Blank Spike was within control limits, except where noted above. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6746

All method blanks for this batch meet method specific criteria.

Samples F24497-2DUP, F24497-2MS, F24497-2MSD, F24497-2SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Iron is outside control limits. The Blank Spike was within 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: June 14, 2004

Sue O. Bell, Project Manager

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24380-1	Date Sampled: 05/25/04
Matrix: AQ - Ground Water	Date Received: 05/25/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0023840.D	20	06/03/04	KW	n/a	n/a	VC1027
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	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	440	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	28.7	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	82.4	20	10	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

3.1
3

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24380-1	Date Sampled: 05/25/04
Matrix: AQ - Ground Water	Date Received: 05/25/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	59.7	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	93%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	96%		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: PIN12-TRTI-N001	Date Sampled: 05/25/04
Lab Sample ID: F24380-1	Date Received: 05/25/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6180	300	48	ug/l	1	06/03/04	06/04/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3831

(2) Prep QC Batch: MP6746

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: PIN12-TRTI-N001	Date Sampled: 05/25/04
Lab Sample ID: F24380-1	Date Received: 05/25/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	348	4.0	mg/l	1	06/07/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24380-2	Date Sampled: 05/25/04
Matrix: AQ - Ground Water	Date Received: 05/25/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023826.D	1	06/02/04	KW	n/a	n/a	VC1027
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: PIN12-TRTE-N001
Lab Sample ID: F24380-2
Matrix: AQ - Ground Water
Method: EPA 624
Project: Star Center-B100 Startup

Date Sampled: 05/25/04
Date Received: 05/25/04
Percent Solids: n/a

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	94%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24380-2	Date Sampled: 05/25/04
Matrix: AQ - Ground Water	Date Received: 05/25/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021728.D	1	06/03/04	ME	06/01/04	OP10558	SL1168
Run #2							

Run #	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	2.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	2.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	2.1	ug/l	
	3&4-Methylphenol	ND	5.2	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	2.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	8.1	5.2	2.1	ug/l	
83-32-9	Acenaphthene	ND	5.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.0	ug/l	
120-12-7	Anthracene	ND	5.2	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	2.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	2.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.2	1.0	ug/l	
218-01-9	Chrysene	ND	5.2	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	2.1	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:	PIN12-TRTE-N001	Date Sampled:	05/25/04
Lab Sample ID:	F24380-2	Date Received:	05/25/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	2.1	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	2.1	ug/l	
132-64-9	Dibenzofuran	ND	5.2	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	2.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	2.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.2	1.0	ug/l	
86-73-7	Fluorene	ND	5.2	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.2	2.1	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	2.1	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	2.1	ug/l	
91-20-3	Naphthalene	ND	5.2	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	2.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	2.1	ug/l	
85-01-8	Phenanthrene	ND	5.2	1.0	ug/l	
129-00-0	Pyrene	ND	5.2	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		19-90%
4165-62-2	Phenol-d5	29%		10-68%
118-79-6	2,4,6-Tribromophenol	85%		36-137%

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

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Client Sample ID: PIN12-TRTE-N001		Date Sampled: 05/25/04
Lab Sample ID: F24380-2		Date Received: 05/25/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 625 EPA 625		
Project: Star Center-B100 Startup		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		49-119%
321-60-8	2-Fluorobiphenyl	76%		45-118%
1718-51-0	Terphenyl-d14	84%		46-135%

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: PIN12-TRTE-N001	Date Sampled: 05/25/04
Lab Sample ID: F24380-2	Date Received: 05/25/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6270	300	48	ug/l	1	06/03/04	06/04/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3831

(2) Prep QC Batch: MP6746

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: PIN12-TRTE-N001	Date Sampled: 05/25/04
Lab Sample ID: F24380-2	Date Received: 05/25/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	363	4.0	mg/l	1	06/07/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #: _____
 ACCUTEST QUOTE #: **F24380**

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES						
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bryan Dairy Rd</u> <u>Largo FL 33777</u> CITY, STATE ZIP SEND REPORT TO: PHONE # <u>727-541-8103</u>			PROJECT NAME: <u>STAR Center - Bldg 100 Startup</u> <u>Largo, FL Sampling</u> LOCATION: <u>110406202</u> PROJECT NO.: _____ FAX #: _____				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID				LAB USE ONLY						
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION				VOCs - 684	SVOCs - 625	Iron + Hardness						
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HC	HC+H									
1	<u>PIN12 - DATE - N001</u>	<u>5/25/04</u>	<u>1120</u>	<u>JPC</u>	<u>4W</u>	<u>4</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>						
2	<u>PIN12 - DATE - N001</u> <u>PH</u>	<u>5/25/04</u>	<u>1125</u>	<u>JPC</u>	<u>4W</u>	<u>6</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>						

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	<u>Week 2 of 4</u>

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: <u>1. [Signature]</u>	DATE TIME: <u>5-25-04/1446</u>	RECEIVED BY: <u>1. [Signature]</u>	DATE TIME: <u>5/25/04 14:10</u>	RELINQUISHED BY: <u>2. [Signature]</u>	DATE TIME: <u>1940</u>	RECEIVED BY: <u>2. [Signature]</u>	
RELINQUISHED BY: <u>3.</u>	DATE TIME: _____	RECEIVED BY: <u>3.</u>	DATE TIME: _____	RELINQUISHED BY: <u>4.</u>	DATE TIME: _____	RECEIVED BY: <u>4.</u>	
RELINQUISHED BY: <u>5.</u>	DATE TIME: _____	RECEIVED BY: <u>5.</u>	DATE TIME: _____	SEAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>	TEMPERATURE _____ C

4.1
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ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F24380**

Client: S.M. Stoller Project: STAR Center - Bldg. 100 Startup Sampling

Date Received: 5/25/04 Time Received: 19:40

of Coolers Received: 1 Cooler Temperatures: 1.2°C

Delivery Method: FedEx UPS **Accutest Courier** Greyhound Delivery Other

Air Bill Number: _____

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

Summary of Comments: _____

Signature: Vell. Mitchell Date: 5/25/04

Review Signature: _____

ASBD 12/30/03

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F24380: Chain of Custody
Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Monthly/Effluent; Largo, FL

110406202

Accutest Job Number: F24496

Sampling Date: 06/01/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **8**



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
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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Sample Summary

S M Stoller

Job No: F24496

Star Center-B100 Monthly/Effluent; Largo, FL
Project No: 110406202

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F24496-1	06/01/04	11:41 JPC	06/01/04	AQ	Ground Water	PIN12-TRTE-N001*B100

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24496

Site: Star Center-B100 Monthly/Effluent; Largo, FL

Report Date 6/4/2004

1 Sample was 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 F24496. 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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1027

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample F24474-1MS, F24474-1MSD were used as the QC samples indicated.

F24496-1(PIN12-TRTE-N001*B100): Sample was treated with an anti-foaming agent.

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 04, 2004

Sue O. Bell, Project Manager

Report of Analysis

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3

Client Sample ID: PIN12-TRTE-N001*B100	
Lab Sample ID: F24496-1	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Monthly/Effluent; Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023835.D	1	06/03/04	KW	n/a	n/a	VC1027
Run #2							

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^b	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	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	94%		73-126%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

- (a) Sample collected on 06/01/04 at 11:41.
 (b) Sample was treated with an anti-foaming agent.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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

ACCUTEST JOB #:
ACCUTEST QUOTE #: **F24496**

CLIENT INFORMATION			FACILITY INFORMATION						ANALYTICAL INFORMATION										MATRIX CODES			
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bryan Dairy Rd, Suite 260</u> CITY: <u>Largo</u> STATE: <u>FL</u> ZIP: <u>33777</u>			PROJECT NAME: <u>STAR Center - 8100 monthly effluent</u> LOCATION: <u>Largo, FL</u> PROJECT NO.: <u>110406202</u> Onsite contact: <u>Berry Rice</u> FAX #: <u>727-549-1121</u>						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID										LAB USE ONLY			
SEND REPORT TO: PHONE # _____			COLLECTION: DATE: _____ TIME: _____ SAMPLED BY: _____ MATRIX: _____ # OF BOTTLES: _____ PRESERVATION: _____ (ICE, NOCH, HPOD, HPOK, NONE)						BTEX, Total VOAs													
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	DATE	TIME	SAMPLED BY	MATRIX	# OF BOTTLES	ICE	NOCH	HPOD	HPOK	NONE											
1	PIN2-TRTE-N001 * 8100	6-1-04	1141	JPC	GW	3	3															

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input checked="" type="checkbox"/> STANDARD <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 <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	APPROVED BY: _____ Benzene Toluene Ethylbenzene Xylenes Total VOAs

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>6-1-04</u>	RECEIVED BY: <u>1. Colleen M...</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>6/1/04/2020</u>	RECEIVED BY: <u>2. Jeff H...</u>
RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____
RELINQUISHED BY: _____	DATE TIME: _____	RECEIVED BY: _____	SEAL # _____	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>
					TEMPERATURE: <u>3.2° C</u>

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F24496: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F24496**
 Client: S.M. Stoller Project: STAR Center - B100 Monthly Effluent
 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 ?	<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>8</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
4

F24496: Chain of Custody
 Page 2 of 2



07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24497

Sampling Date: 06/01/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **19**



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: F24497

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24497-1	06/01/04	11:35 JPC	06/01/04	AQ	Ground Water	PIN12-TRTI-N001
F24497-2	06/01/04	11:38 JPC	06/01/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24497

Site: Star Center-B100 Startup

Report Date 6/11/2004

2 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 F24497. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Volatile samples treated with a foaming agent are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VC1027

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24474-1MS, F24474-1MSD were used as the QC samples indicated.

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

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10608

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F24498-5MS, F24498-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for Anthracene, Benzo(a)anthracene, Benzo(k)fluoranthene, Chrysene, Phenanthrene, Pyrene are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6746

All method blanks for this batch meet method specific criteria.

Samples F24497-2DUP, F24497-2MS, F24497-2MSD, F24497-2SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Iron is outside control limits. The Blank Spike was within 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: June 15, 2004

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

Report of Analysis

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24497-1	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	C0023841.D	20	06/03/04	KW	n/a	n/a	VC1027

Run #1	Purge Volume
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
75-00-3	Chloroethane	ND	20	20	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	463	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	20	10	ug/l	
95-50-1	o-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	32.7	20	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
74-83-9	Methyl bromide	ND	20	20	ug/l	
74-87-3	Methyl chloride	ND	20	20	ug/l	
75-09-2	Methylene chloride	ND	20	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
127-18-4	Tetrachloroethylene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
79-01-6	Trichloroethylene	84.7	20	10	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

3.1
3

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24497-1	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	12	ug/l	
75-01-4	Vinyl chloride	48.2	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	
95-47-6	o-Xylene	ND	20	10	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	93%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	97%		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: PIN12-TRTI-N001 Lab Sample ID: F24497-1 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	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
Iron	6100	300	48	ug/l	1	06/03/04	06/04/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3831

(2) Prep QC Batch: MP6746

RL = Reporting Limit
 MDL = Method Detection Limit

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

Report of Analysis

3.1
3

Client Sample ID: PIN12-TRTI-N001 Lab Sample ID: F24497-1 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 06/01/04 Date Received: 06/01/04 Percent Solids: n/a
--	---

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	341	4.0	mg/l	1	06/07/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24497-2	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0023836.D	1	06/03/04	KW	n/a	n/a	VC1027
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: PIN12-TRTE-N001		Date Sampled: 06/01/04
Lab Sample ID: F24497-2		Date Received: 06/01/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: Star Center-B100 Startup		

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	92%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24497-2	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L021824.D	1	06/08/04	ME	06/07/04	OP10608	SL1172
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	16	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	2.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	2.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	2.1	ug/l	
	3&4-Methylphenol	ND	5.2	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	2.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	2.1	ug/l	
83-32-9	Acenaphthene	ND	5.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.0	ug/l	
120-12-7	Anthracene	ND	5.2	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	2.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	2.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.2	1.0	ug/l	
218-01-9	Chrysene	ND	5.2	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	2.1	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:	PIN12-TRTE-N001	Date Sampled:	06/01/04
Lab Sample ID:	F24497-2	Date Received:	06/01/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	2.1	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	2.1	ug/l	
132-64-9	Dibenzofuran	ND	5.2	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	2.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	2.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.2	1.0	ug/l	
86-73-7	Fluorene	ND	5.2	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.2	2.1	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	2.1	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	2.1	ug/l	
91-20-3	Naphthalene	ND	5.2	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	2.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	2.1	ug/l	
85-01-8	Phenanthrene	ND	5.2	1.0	ug/l	
129-00-0	Pyrene	ND	5.2	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		19-90%
4165-62-2	Phenol-d5	24%		10-68%
118-79-6	2,4,6-Tribromophenol	80%		36-137%

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: PIN12-TRTE-N001	
Lab Sample ID: F24497-2	Date Sampled: 06/01/04
Matrix: AQ - Ground Water	Date Received: 06/01/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		49-119%
321-60-8	2-Fluorobiphenyl	64%		45-118%
1718-51-0	Terphenyl-d14	79%		46-135%

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: PIN12-TRTE-N001	Date Sampled: 06/01/04
Lab Sample ID: F24497-2	Date Received: 06/01/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6210	300	48	ug/l	1	06/03/04	06/04/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3831

(2) Prep QC Batch: MP6746

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: PIN12-TRTE-N001 Lab Sample ID: F24497-2 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 06/01/04 Date Received: 06/01/04 Percent Solids: n/a
--	---

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	339	4.0	mg/l	1	06/07/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F24497

CLIENT INFORMATION			FACILITY INFORMATION						ANALYTICAL INFORMATION										MATRIX CODES										
NAME: <u>S.M. Staller</u> ADDRESS: <u>7887 Bryer Dairy Rd, Suite 260</u> CITY: <u>Largo</u> STATE: <u>FL</u> ZIP: <u>33777</u>			PROJECT NAME: <u>STAR Center - B100 startup</u> LOCATION: <u>Largo, FL</u> PROJECT NO.: <u>110406202</u> FAX #: _____						VOCs - 624 SVOCs - 625 Fe + Hardness										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - LIQUID SOL - OTHER SOLID										
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION							LAB USE ONLY																	
		DATE	TIME	SAMPLED BY:	MATRIX	NO. OF BOTTLES	HC	HEAT	INHIB	REFRIG	NOTE																		
1	PIN12-TRTI-N001	6-1-04	1135	JPC	6w	4	3	1					3	1															
2	PIN12-TRTE-N001	6-1-04	1138	JPC	6w	6	3	1	2				3	2	1														
DATA TURNAROUND INFORMATION <input type="checkbox"/> STANDARD APPROVED BY: _____ <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		DATA DELIVERABLE INFORMATION <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____						COMMENTS/REMARKS <u>Week 3 of 4</u>																					
RELINQUISHED BY SAMPLER: <u>S.M. Staller</u> DATE TIME: <u>6-1-04</u>															RECEIVED BY: <u>Richard M... 26 June 2004</u> DATE TIME: <u>6/1/04 17:20</u>														
RELINQUISHED BY: <u>3.</u>					RECEIVED BY: <u>3.</u>					RELINQUISHED BY: <u>4.</u>					RECEIVED BY: <u>4.</u>														
RELINQUISHED BY: <u>5.</u>					RECEIVED BY: <u>5.</u>					SEAL # _____ PRESERVE WHERE APPLICABLE <input type="checkbox"/>					ON ICE <input type="checkbox"/> TEMPERATURE <u>3.6</u> C														

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F24497: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F24497
 Client: S.M. Stoller Project: STAR Center-B100 startup
 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

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F24497: Chain of Custody
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07/19/04

Technical Report for

S M Stoller

Star Center-B100 Startup

110406202

Accutest Job Number: F24690

Sampling Date: 06/09/04

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: F24690

Star Center-B100 Startup
Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F24690-1	06/09/04	12:30 JPC	06/09/04	AQ	Ground Water	PIN12-TRTI-N001
F24690-2	06/09/04	12:35 JPC	06/09/04	AQ	Ground Water	PIN12-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F24690

Site: Star Center-B100 Startup

Report Date 6/16/2004

2 Sample were collected on 06/09/2004 and were received at Accutest on 06/09/2004 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of F24690. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Volatile samples treated with a foaming agent are footnoted accordingly.

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.

Volatiles by GCMS By Method EPA 624

Matrix: AQ

Batch ID: VB972

All samples were analyzed within the recommended method holding time.

Samples F24690-2MS, F24690-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recoveries for 1,1,2,2-Tetrachloroethane, 2-Chloroethyl vinyl ether are outside control limits in the MS/MSD. The Blank Spike was within control limits. Data not adversely affected.

Matrix: AQ

Batch ID: VB973

All samples were analyzed within the recommended method holding time.

Samples F24690-1MS, F24690-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10675

All samples were analyzed within the recommended method holding time.

All samples were extracted within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F24764-8MS, F24764-8MSD were used as the QC samples indicated.

Blank Spike Recoveries for 4-Bromophenyl phenyl ether, Chrysene, Pyrene are above control limits. These two compounds were non-detect in the associated samples, Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6774

All method blanks for this batch meet method specific criteria.

Samples F24542-1DUP, F24542-1MS, F24542-1MSD, F24542-1SDL 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

Client Sample ID: PIN12-TRTI-N001	
Lab Sample ID: F24690-1	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B022382.D	10	06/10/04	KW	n/a	n/a	VB972
Run #2	B022388.D	100	06/11/04	KW	n/a	n/a	VB973

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
75-00-3	Chloroethane	ND	10	10	ug/l	
67-66-3	Chloroform	5310 ^a	100	50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethylene	11.2	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	637	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	10	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	43.4	10	5.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
74-83-9	Methyl bromide	ND	10	10	ug/l	
74-87-3	Methyl chloride	ND	10	10	ug/l	
75-09-2	Methylene chloride	ND	10	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	3.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
79-01-6	Trichloroethylene	105	10	5.0	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: PIN12-TRTI-N001	
Lab Sample ID: F24690-1	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	6.0	ug/l	
75-01-4	Vinyl chloride	54.3	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	90%	89%	73-126%
2037-26-5	Toluene-D8	100%	99%	86-112%
460-00-4	4-Bromofluorobenzene	103%	107%	83-119%

(a) Result is from Run# 2

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: PIN12-TRTI-N001	Date Sampled: 06/09/04
Lab Sample ID: F24690-1	Date Received: 06/09/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6200	300	48	ug/l	1	06/11/04	06/14/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3841

(2) Prep QC Batch: MP6774

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: PIN12-TRTI-N001 Lab Sample ID: F24690-1 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 06/09/04 Date Received: 06/09/04 Percent Solids: n/a
--	---

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	339	4.0	mg/l	1	06/15/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24690-2	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B022379.D	1	06/10/04	KW	n/a	n/a	VB972
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	26.5	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: PIN12-TRTE-N001	
Lab Sample ID: F24690-2	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-B100 Startup	

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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	92%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	107%		83-119%

(a) Sample was treated with an anti-foaming agent.

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: PIN12-TRTE-N001	
Lab Sample ID: F24690-2	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W020318.D	1	06/15/04	ME	06/14/04	OP10675	SW1067
Run #2							

Run #	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	26	15	ug/l	
95-57-8	2-Chlorophenol	ND	5.2	2.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	2.1	ug/l	
120-83-2	2,4-Dichlorophenol	4.7	5.2	2.1	ug/l	J
105-67-9	2,4-Dimethylphenol	ND	5.2	2.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	26	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	2.1	ug/l	
	3&4-Methylphenol	ND	5.2	2.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	2.1	ug/l	
100-02-7	4-Nitrophenol	ND	26	10	ug/l	
87-86-5	Pentachlorophenol	ND	26	10	ug/l	
108-95-2	Phenol	ND	5.2	2.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	2.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	67.2	5.2	2.1	ug/l	
83-32-9	Acenaphthene	ND	5.2	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.2	1.0	ug/l	
120-12-7	Anthracene	ND	5.2	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	2.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	2.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	3.1	ug/l	
86-74-8	Carbazole	ND	5.2	1.0	ug/l	
218-01-9	Chrysene	ND	5.2	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	2.1	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:	PIN12-TRTE-N001	Date Sampled:	06/09/04
Lab Sample ID:	F24690-2	Date Received:	06/09/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	Star Center-B100 Startup		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	2.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	2.1	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	10	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	2.1	ug/l	
132-64-9	Dibenzofuran	ND	5.2	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	2.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	2.6	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	2.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	2.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	2.6	ug/l	
206-44-0	Fluoranthene	ND	5.2	1.0	ug/l	
86-73-7	Fluorene	ND	5.2	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	2.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.2	2.1	ug/l	
67-72-1	Hexachloroethane	ND	5.2	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	2.1	ug/l	
78-59-1	Isophorone	ND	5.2	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	2.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	2.1	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	2.1	ug/l	
91-20-3	Naphthalene	ND	5.2	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.2	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	2.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	2.1	ug/l	
85-01-8	Phenanthrene	ND	5.2	1.0	ug/l	
129-00-0	Pyrene	ND	5.2	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		19-90%
4165-62-2	Phenol-d5	24%		10-68%
118-79-6	2,4,6-Tribromophenol	86%		36-137%

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

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Client Sample ID: PIN12-TRTE-N001	
Lab Sample ID: F24690-2	Date Sampled: 06/09/04
Matrix: AQ - Ground Water	Date Received: 06/09/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: Star Center-B100 Startup	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		49-119%
321-60-8	2-Fluorobiphenyl	79%		45-118%
1718-51-0	Terphenyl-d14	91%		46-135%

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

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3

Client Sample ID: PIN12-TRTE-N001 Lab Sample ID: F24690-2 Matrix: AQ - Ground Water Project: Star Center-B100 Startup	Date Sampled: 06/09/04 Date Received: 06/09/04 Percent Solids: n/a
--	---

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	6100	300	48	ug/l	1	06/11/04	06/14/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3841

(2) Prep QC Batch: MP6774

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: PIN12-TRTE-N001	Date Sampled: 06/09/04
Lab Sample ID: F24690-2	Date Received: 06/09/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-B100 Startup	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	336	4.0	mg/l	1	06/15/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

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

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F24690

CLIENT INFORMATION			FACILITY INFORMATION					ANALYTICAL INFORMATION					MATRIX CODES
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bayson Dairy Rd, Site 260</u> CITY: <u>Large</u> STATE: <u>FL</u> ZIP: <u>33777</u>			PROJECT NAME: <u>STAR Center - 8100 startup sampling</u> LOCATION: <u>Large, FL</u> PROJECT NO.: <u>110406202</u>					VOCs - 624 SVOCs - 625 Fe + Hardness					DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION					LAB USE ONLY			
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HC	MSDS	MSDS		MSDS		
1	PIN12-TRTI-N001	6-9-04	1230	JPC	GW	4	3	1			3	1	
2	PIN12-TRTE-N001	6-9-04	1235	JPC	GW	6	3	1	2		3	2	1
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION					COMMENTS/REMARKS						
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY)					Week 4 of 4						
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME/SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY													
ISSUED BY/SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RECEIVED BY:	
<u>JPC</u>	<u>6-9-04/1320</u>	<u>JPC</u>	<u>6/9/04</u>	<u>JPC</u>	<u>6/9/04</u>	<u>JPC</u>	<u>6/9/04</u>	<u>JPC</u>	<u>6/9/04</u>	<u>JPC</u>	<u>6/9/04</u>	<u>JPC</u>	
BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RECEIVED BY:	
BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RECEIVED BY:	
SEAL #										PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE
													<u>14° C</u>

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F24690: Chain of Custody

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ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F24690**
 Client: S.M. Stoller Project: STAR Center - B100 Startup sampling
 Date Received: 6/9/04 Time Received: 15:45
 # of Coolers Received: 1 Cooler Temperatures: 1.4°C
 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: Jeff. Matloff Date: 6/9/04
 Review Signature: _____

ASBD 12/30/03

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F24690: Chain of Custody
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