



10/25/04

Technical Report for

S M Stoller

STAR Center- 4.5 Acre Site, Largo, FL

110406202

Accutest Job Number: F25243

Sampling Date: 07/06/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 25



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: F25243

STAR Center- 4.5 Acre Site, Largo, FL
 Project No: 110406202

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F25243-1	07/06/04	11:20 JPC	07/06/04	AQ	Ground Water	PIN20-RW01-N001
F25243-2	07/06/04	11:25 JPC	07/06/04	AQ	Ground Water	PIN20-RW02-N001
F25243-3	07/06/04	11:27 JPC	07/06/04	AQ	Ground Water	PIN20-RW03-N001
F25243-4	07/06/04	11:30 JPC	07/06/04	AQ	Ground Water	PIN20-TRTI-N001
F25243-5	07/06/04	11:37 JPC	07/06/04	AQ	Ground Water	PIN20-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F25243

Site: STAR Center- 4.5 Acre Site, Largo, FL

Report Date 7/20/2004

5 Samples were collected on 07/06/2004 and were received at Accutest on 07/06/2004 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of F25243. 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: VG1111

All samples were analyzed within the recommended method holding time.

Samples F25243-5MS, F25243-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

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

RPDs for MS/MSD for 1,1,2,2-Tetrachloroethane, Dibromochloromethane are outside control limits. The Blank Spike was within limits except where noted below. Data not adversely affected.

Blank Spike Recoveries for 1,1-Dichloroethane, 1,1-Dichloroethylene, Tetrachloroethylene are above control limits. These compounds were non-detect in all associated samples. Data not adversely affected.

F25243-5: Sample was treated with an anti-foaming agent.

F25243-4: Sample was treated with an anti-foaming agent.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VB1007

All samples were analyzed within the recommended method holding time.

Samples F25242-1MS, F25242-1MSD 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 are outside control limits in the MS/MSD. The Blank Spike was within limits. Data not adversely affected.

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

F25243-3: Sample was treated with an anti-foaming agent.

F25243-1: Sample was treated with an anti-foaming agent.

F25243-2: Sample was treated with an anti-foaming agent.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP10865

All samples were extracted within the recommended method holding time.

Samples F25245-4MS, F25245-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Recovery for Di-n-octyl phthalate is outside control limits in the MS/SMD. The Blank Spike was within limits. Data not adversely affected.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP6895

All method blanks for this batch meet method specific criteria.

Samples F25242-1DUP, F25242-1MS, F25242-1MSD, F25242-1SDL were used as the QC samples for metals.

Matrix Spike Recovery 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: July 20, 2004

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

Report of Analysis

Client Sample ID: PIN20-RW01-N001	
Lab Sample ID: F25243-1	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B023208.D	1	07/12/04	KW	n/a	n/a	VB1007
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	2.9	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: PIN20-RW01-N001	
Lab Sample ID: F25243-1	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	4.7	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	113%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	91%		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: PIN20-RW02-N001	
Lab Sample ID: F25243-2	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B023209.D	1	07/12/04	KW	n/a	n/a	VB1007
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	1.1	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: PIN20-RW02-N001	
Lab Sample ID: F25243-2	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	4.6	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	108%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	92%		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: PIN20-RW03-N001	
Lab Sample ID: F25243-3	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	B023210.D	1	07/12/04	KW	n/a	n/a	VB1007
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	0.57	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	1.3	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	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: PIN20-RW03-N001	
Lab Sample ID: F25243-3	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	7.3	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	110%		86-115%
17060-07-0	1,2-Dichloroethane-D4	93%		73-126%
2037-26-5	Toluene-D8	91%		86-112%
460-00-4	4-Bromofluorobenzene	102%		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: PIN20-TRTI-N001	
Lab Sample ID: F25243-4	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0029615.D	50	07/08/04	JG	n/a	n/a	VG1111
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	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
75-00-3	Chloroethane	ND	50	50	ug/l	
67-66-3	Chloroform	2270	50	25	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	130	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
541-73-1	m-Dichlorobenzene	ND	50	25	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
74-83-9	Methyl bromide	ND	50	50	ug/l	
74-87-3	Methyl chloride	ND	50	50	ug/l	
75-09-2	Methylene chloride	ND	50	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	15	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
127-18-4	Tetrachloroethylene	ND	50	25	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
79-01-6	Trichloroethylene	ND	50	25	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:	PIN20-TRTI-N001		Date Sampled:	07/06/04
Lab Sample ID:	F25243-4	Date Received:	07/06/04	
Matrix:	AQ - Ground Water		Percent Solids:	n/a
Method:	EPA 624			
Project:	STAR Center- 4.5 Acre Site, Largo, FL			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	30	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
	m,p-Xylene	ND	100	25	ug/l	
95-47-6	o-Xylene	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		86-115%
17060-07-0	1,2-Dichloroethane-D4	116%		73-126%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	104%		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: PIN20-TRTI-N001	Date Sampled: 07/06/04
Lab Sample ID: F25243-4	Date Received: 07/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5520	300	48	ug/l	1	07/14/04	07/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3889

(2) Prep QC Batch: MP6895

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: PIN20-TRTI-N001	Date Sampled: 07/06/04
Lab Sample ID: F25243-4	Date Received: 07/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	849	4.0	mg/l	1	07/20/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN20-TRTE-N001	
Lab Sample ID: F25243-5	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0029610.D	1	07/08/04	JG	n/a	n/a	VG1111
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	15.0	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: PIN20-TRTE-N001	
Lab Sample ID: F25243-5	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	109%		86-115%
17060-07-0	1,2-Dichloroethane-D4	115%		73-126%
2037-26-5	Toluene-D8	90%		86-112%
460-00-4	4-Bromofluorobenzene	111%		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: PIN20-TRTE-N001	
Lab Sample ID: F25243-5	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L022395.D	1	07/13/04	ME	07/10/04	OP10865	SL1198
Run #2							

Run #	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	27	16	ug/l	
95-57-8	2-Chlorophenol	ND	5.4	2.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.4	2.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.4	2.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	2.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	27	11	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	5.4	ug/l	
95-48-7	2-Methylphenol	ND	5.4	2.2	ug/l	
	3&4-Methylphenol	ND	5.4	2.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.4	2.2	ug/l	
100-02-7	4-Nitrophenol	ND	27	11	ug/l	
87-86-5	Pentachlorophenol	ND	27	11	ug/l	
108-95-2	Phenol	ND	5.4	2.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	2.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	8.1	5.4	2.2	ug/l	
83-32-9	Acenaphthene	ND	5.4	1.1	ug/l	
208-96-8	Acenaphthylene	ND	5.4	1.1	ug/l	
120-12-7	Anthracene	ND	5.4	1.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.4	1.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.4	1.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.4	1.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.4	2.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.4	1.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.4	1.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.4	2.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.4	1.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	1.1	ug/l	
106-47-8	4-Chloroaniline	ND	11	3.3	ug/l	
86-74-8	Carbazole	ND	5.4	1.1	ug/l	
218-01-9	Chrysene	ND	5.4	1.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.4	1.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	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:	PIN20-TRTE-N001	Date Sampled:	07/06/04
Lab Sample ID:	F25243-5	Date Received:	07/06/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	STAR Center- 4.5 Acre Site, Largo, FL		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	1.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.4	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.4	1.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.4	1.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.4	1.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.4	2.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.4	2.2	ug/l	
91-94-1	3,3' -Dichlorobenzidine	ND	11	5.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.4	2.2	ug/l	
132-64-9	Dibenzofuran	ND	5.4	1.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.4	2.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.4	2.7	ug/l	
84-66-2	Diethyl phthalate	ND	5.4	2.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.4	2.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.4	2.7	ug/l	
206-44-0	Fluoranthene	ND	5.4	1.1	ug/l	
86-73-7	Fluorene	ND	5.4	1.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.4	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.4	2.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.4	2.2	ug/l	
67-72-1	Hexachloroethane	ND	5.4	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.4	2.2	ug/l	
78-59-1	Isophorone	ND	5.4	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.4	1.1	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	2.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	2.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	2.2	ug/l	
91-20-3	Naphthalene	ND	5.4	1.1	ug/l	
98-95-3	Nitrobenzene	ND	5.4	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	2.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	2.2	ug/l	
85-01-8	Phenanthrene	ND	5.4	1.1	ug/l	
129-00-0	Pyrene	ND	5.4	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		19-90%
4165-62-2	Phenol-d5	31%		10-68%
118-79-6	2,4,6-Tribromophenol	81%		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: PIN20-TRTE-N001	
Lab Sample ID: F25243-5	Date Sampled: 07/06/04
Matrix: AQ - Ground Water	Date Received: 07/06/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		49-119%
321-60-8	2-Fluorobiphenyl	76%		45-118%
1718-51-0	Terphenyl-d14	76%		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: PIN20-TRTE-N001	Date Sampled: 07/06/04
Lab Sample ID: F25243-5	Date Received: 07/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5580	300	48	ug/l	1	07/14/04	07/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3889

(2) Prep QC Batch: MP6895

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: PIN20-TRTE-N001	Date Sampled: 07/06/04
Lab Sample ID: F25243-5	Date Received: 07/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	840	4.0	mg/l	1	07/20/04	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 #: **F25243**

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES						
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bryan Dring Rd, Suite 260</u> CITY: <u>Largo</u> STATE: <u>FL</u> ZIP: <u>33777</u>			PROJECT NAME: <u>STAR Center - Monthly sampling</u> LOCATION: <u>4.5 Acre Site</u> PROJECT NO.: <u>110406202</u>				<u>VOCs - 624</u> <u>VOCs - 8260</u> <u>SVOCs - 625</u> <u>Fe + Hardsell</u>				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE 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	ICE	NOCT	INOC	MSBOK	MOKE						
1	PIN20-RW01-N001	7-6-04	1120	JPC	GW	3	3										
2	PIN20-RW02-N001	↓	1125	↓	↓	3	3										
3	PIN20-RW03-N001	↓	1127	↓	↓	3	3										
4	PIN20-TRTI-N001	↓	1130	↓	↓	4	3	1			3		1				
5	PIN20-TRTE-N001	↓	1137	↓	↓	6	3	1	2		3		2	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																	
1. RELINQUISHED BY: <u>[Signature]</u> DATE TIME: <u>7-6-04 13:30</u>		1. RECEIVED BY: <u>[Signature]</u> DATE TIME: <u>7/6/04 13:30</u>		2. RELINQUISHED BY: <u>[Signature]</u> DATE TIME: <u>7/6/04</u>		2. RECEIVED BY: <u>[Signature]</u> DATE TIME: <u>15:45</u>		3. RELINQUISHED BY: _____ DATE TIME: _____		3. RECEIVED BY: _____ DATE TIME: _____		4. RELINQUISHED BY: _____ DATE TIME: _____		4. RECEIVED BY: _____ DATE TIME: _____			
3. RELINQUISHED BY: _____ DATE TIME: _____		3. RECEIVED BY: _____ DATE TIME: _____		4. SEAL # _____		PRESERVE WHERE APPLICABLE <input type="checkbox"/>		ON ICE <input type="checkbox"/>		TEMPERATURE <u>16.9 C</u>							

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F25243: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F25243**

Client: S.M. Stoller Project: STAR Center - Monthly Sampling 4.5 Acre Site

Date Received: 7/6/04 Time Received: 15:45

of Coolers Received: 2 Cooler Temperatures: 0.6, 1.4°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: 7/6/04

Review Signature: _____

ASBD 12/30/03

4.1
4

F25243: Chain of Custody
Page 2 of 2



10/25/04

Technical Report for

S M Stoller

Star Center-4.5 Acre Monthly /Effluent, FL

110406202

Accutest Job Number: F25244

Sampling Date: 07/06/04

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: F25244

Star Center-4.5 Acre Monthly /Effluent, FL
Project No: 110406202

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F25244-1	07/06/04	11:39 JPC	07/06/04	AQ	Ground Water	PIN20-TRTE-N002*4.5 ACRE SITE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F25244

Site: Star Center-4.5 Acre Monthly /Effluent, FL

Report Date 7/12/2004

1 Sample was collected on 07/06/2004 and were received at Accutest on 07/06/2004 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of F25244. 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: VG1111

All samples were analyzed within the recommended method holding time.

Samples F25243-5MS, F25243-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F25244-1: 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: July 12, 2004

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

Report of Analysis

Client Sample ID: PIN20-TRTE-N002*4.5 ACRE SITE	Date Sampled: 07/06/04
Lab Sample ID: F25244-1	Date Received: 07/06/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 624	
Project: Star Center-4.5 Acre Monthly /Effluent, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	G0029613.D	1	07/08/04	JG	n/a	n/a	VG1111
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	111%		86-115%
17060-07-0	1,2-Dichloroethane-D4	116%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	106%		83-119%

- (a) Sample collected on 07/06/04 at 11:39.
- (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

4408 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-8700 • FAX: 407-425-0707

ACCUTEST JOB #:
ACCUTEST QUOTE #: **F25244**

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES	
NAME: <u>S.M. Stoller</u> ADDRESS: <u>7887 Bayan Dring Rd, Suite 260</u> City: <u>Large</u> FL 33777 STATE: ZIP SEND REPORT TO: PHONE #		PROJECT NAME: <u>STAR Center - Monthly effluent Sample</u> LOCATION: <u>4.5 Acre Site</u> PROJECT NO.: <u>110406202</u> FAX #				BTEX, Total VoAs (by 624)				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		PRESERVATION				LAB USE ONLY			
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NOCH		INCHS	HESOR	MONOR
1	PIN20-TRTE-N002 * 4.5 Acre Site	7-6-04	1139	JPC	GW	3	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</u> <u>Xylenes</u> <u>Toluene</u> <u>Total VoAs</u> <u>Ethylbenzene</u>					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY: 1. <u>[Signature]</u>	DATE TIME: 7-6-04 15:30	RECEIVED BY: 1. <u>[Signature]</u>	DATE TIME: 7/6/04 8:00	RELINQUISHED BY: 2. <u>[Signature]</u>	DATE TIME: 7/6/04	RECEIVED BY: 2. <u>[Signature]</u>	DATE TIME: 15:45	RELINQUISHED BY: 3. _____	DATE TIME: _____	RECEIVED BY: 3. _____	DATE TIME: _____
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>0.6, 14°C</u>											

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F25244**
Client: S.M. Staller Project: STAR Center-Monthly Effluent Sample
Date Received: 7/6/04 Time Received: 15:45
of Coolers Received: 2 Cooler Temperatures: 0.6, 1.4°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 Mistoff Date: 7/6/04

Review Signature: _____

F25244: Chain of Custody
Page 2 of 2



10/25/04

Technical Report for

S M Stoller

STAR Center- 4.5 Acre Site, Largo, FL

110406202/Monthly

Accutest Job Number: F25983

Sampling Date: 08/10/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **24**



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: F25983

STAR Center- 4.5 Acre Site, Largo, FL
 Project No: 110406202/Monthly

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F25983-1	08/10/04	11:22 JPC	08/10/04	AQ	Ground Water	PIN20-RW01-N001
F25983-2	08/10/04	11:23 JPC	08/10/04	AQ	Ground Water	PIN20-RW02-N001
F25983-3	08/10/04	11:30 JPC	08/10/04	AQ	Ground Water	PIN20-RW03-N001
F25983-4	08/10/04	11:32 JPC	08/10/04	AQ	Ground Water	PIN20-TRTI-N001
F25983-5	08/10/04	11:36 JPC	08/10/04	AQ	Ground Water	PIN20-TRTE-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F25983

Site: STAR Center- 4.5 Acre Site, Largo, FL

Report Date 9/1/2004

5 Sample were collected on 08/10/2004 and were received at Accutest on 08/10/2004 properly preserved, at 0.6 Deg. C and intact. These Samples received an Accutest job number of F25983. 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: VM12

All samples were analyzed within the recommended method holding time.

Samples F25983-5DUP, F25983-5MS were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

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

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VC1094

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F25993-4MS, F25993-4MSD were used as the QC samples indicated.

MS/MSD recoveries for 2-Chloroethyl vinyl ether, Trichloroethylene are outside control limits. The Blank Spike is within limits. Data not adversely affected.

F25983-1: Sample was treated with an anti-foaming agent.

F25983-2: Sample was treated with an anti-foaming agent.

F25983-3: Sample was treated with an anti-foaming agent.

Extractables by GCMS By Method EPA 625

Matrix: AQ

Batch ID: OP11107

All samples were analyzed within the recommended method holding time.

Samples F26029-5MS, F26029-5MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F25983-5 (PIN20-TRTE-N001): Sample extracted 1 day beyond hold time due to Hurricane Charley. Data has been footnoted accordingly.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7018

Samples F25979-1DUP, F25979-1MS, F25979-1MSD, F25979-1SDL 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: September 02, 2004

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

Report of Analysis

Client Sample ID: PIN20-RW01-N001	
Lab Sample ID: F25983-1	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0025625.D	1	08/20/04	KW	n/a	n/a	VC1094
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	2.2	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: PIN20-RW01-N001	
Lab Sample ID: F25983-1	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	3.5	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	99%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	111%		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

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3

Client Sample ID: PIN20-RW02-N001	
Lab Sample ID: F25983-2	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0025626.D	1	08/20/04	KW	n/a	n/a	VC1094
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	1.1	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

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: PIN20-RW02-N001		Date Sampled: 08/10/04
Lab Sample ID: F25983-2		Date Received: 08/10/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: STAR Center- 4.5 Acre Site, 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	6.0	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	94%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	116%		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: PIN20-RW03-N001	
Lab Sample ID: F25983-3	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0025627.D	1	08/20/04	KW	n/a	n/a	VC1094
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	0.56	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	1.0	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	
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: PIN20-RW03-N001	
Lab Sample ID: F25983-3	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: SW846 8260B	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	8.3	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	95%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	119%		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:	PIN20-TRTI-N001	Date Sampled:	08/10/04
Lab Sample ID:	F25983-4	Date Received:	08/10/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	STAR Center- 4.5 Acre Site, Largo, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0000267.D	20	08/23/04	NJ	n/a	n/a	VM12
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	1060	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	ND	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	ND	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	61.2	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	ND	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: PIN20-TRTI-N001		Date Sampled: 08/10/04
Lab Sample ID: F25983-4		Date Received: 08/10/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 624		
Project: STAR Center- 4.5 Acre Site, 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	ND	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	101%		73-126%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	91%		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: PIN20-TRTI-N001	Date Sampled: 08/10/04
Lab Sample ID: F25983-4	Date Received: 08/10/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5370	300	48	ug/l	1	08/21/04	08/24/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3944

(2) Prep QC Batch: MP7018

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: PIN20-TRTI-N001	Date Sampled: 08/10/04
Lab Sample ID: F25983-4	Date Received: 08/10/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	874	4.0	mg/l	1	08/26/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Client Sample ID: PIN20-TRTE-N001	
Lab Sample ID: F25983-5	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0000263.D	1	08/23/04	NJ	n/a	n/a	VM12
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	10.7	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: PIN20-TRTE-N001	
Lab Sample ID: F25983-5	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: EPA 624	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, 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	104%		86-115%
17060-07-0	1,2-Dichloroethane-D4	102%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	94%		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: PIN20-TRTE-N001	
Lab Sample ID: F25983-5	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
Method: EPA 625 EPA 625	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L022986.D	1	08/22/04	ME	08/18/04	OP11107	SL1225
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	6.5	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:	PIN20-TRTE-N001	Date Sampled:	08/10/04
Lab Sample ID:	F25983-5	Date Received:	08/10/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	STAR Center- 4.5 Acre Site, 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	50%		19-90%
4165-62-2	Phenol-d5	32%		10-68%
118-79-6	2,4,6-Tribromophenol	100%		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: PIN20-TRTE-N001		Date Sampled: 08/10/04
Lab Sample ID: F25983-5		Date Received: 08/10/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 625 EPA 625		
Project: STAR Center- 4.5 Acre Site, Largo, FL		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		49-119%
321-60-8	2-Fluorobiphenyl	89%		45-118%
1718-51-0	Terphenyl-d14	84%		46-135%

(a) Sample extracted beyond hold time.

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: PIN20-TRTE-N001	
Lab Sample ID: F25983-5	Date Sampled: 08/10/04
Matrix: AQ - Ground Water	Date Received: 08/10/04
	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	5010	300	48	ug/l	1	08/21/04	08/24/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3944

(2) Prep QC Batch: MP7018

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: PIN20-TRTE-N001	Date Sampled: 08/10/04
Lab Sample ID: F25983-5	Date Received: 08/10/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: STAR Center- 4.5 Acre Site, Largo, FL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3	842	4.0	mg/l	1	08/26/04	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 #: **F25983**

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 - Monthly Sampling</u> LOCATION: <u>4.5 Acre Site</u> PROJECT NO.: <u>110406202</u> FAX # _____				VOCs - 8260 VOCs - 624 SVOCs - 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			PRESERVATION				LAB USE ONLY			
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	ICE	NOCT		INOC	INSON	NOKE
1	PIN20-RW01-N001	9-10-04	1122	JPC	GW	3	3					
2	PIN20-RW02-N001		1123			3	3					
3	PIN20-RW03-N001		1130			3	3					
4	PIN20-TRTE-N001		1132			4	3	1		3	1	
5	PIN20-TRTE-N001		1136			6	3	1	2	3	2	1
<input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS					
RELINQUISHED BY SAMPLER: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____												
SEAL #						PRESERVE WHERE APPLICABLE		ON ICE		TEMPERATURE		
										0.0, 0.6°C		

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F25983: Chain of Custody

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ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F25983**
 Client: S.M. Stoller Project: STAR Center - Monthly Sampling ^{4.5 Acre Site}
 Date Received: 8/10/04 Time Received: 17:40
 # of Coolers Received: 2 Cooler Temperatures: 0.0, 0.6°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: 8/10/04
 Review Signature: _____

ASBD/HW 05/11/03

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F25983: Chain of Custody
 Page 2 of 2



10/25/04

Technical Report for

S M Stoller

Star Center-4.5 Acre Monthly /Effluent, FL

110406202

Accutest Job Number: F26618

Sampling Date: 09/09/04

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: F26618

Star Center-4.5 Acre Monthly /Effluent, FL
Project No: 110406202

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F26618-1	09/09/04	11:50 JPC	09/09/04	AQ	Ground Water	PIN20-TRTE-N002*4.5 ACRE SITE

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F26618

Site: Star Center-4.5 Acre Monthly /Effluent, FL

Report Date 9/20/2004

1 Sample was collected on 09/09/2004 and were received at Accutest on 09/09/2004 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F26618. 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: VC1121

All samples were analyzed within the recommended method holding time.

Samples F26619-4MS, F26619-4MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery for Toluene is above control limits. The associated sample is non-detect. Data not adversely affected.

F26618-1: Sample collected on 09/09/04 at 11:50.

F26618-1 for Benzene: 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: September 21, 2004

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

Report of Analysis

3.1
3

Client Sample ID: PIN20-TRTE-N002*4.5 ACRE SITE	
Lab Sample ID: F26618-1	Date Sampled: 09/09/04
Matrix: AQ - Ground Water	Date Received: 09/09/04
Method: EPA 624	Percent Solids: n/a
Project: Star Center-4.5 Acre Monthly /Effluent, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0026326.D	1	09/17/04	KW	n/a	n/a	VC1121
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	103%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

- (a) Sample collected on 09/09/04 at 11:50.
- (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

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F26618

Accutest's Job Number: _____ Project: Star Center - Monthly EEF

Client: SM Steller

Date Received: 9/19/04 Time Received: 17:30

of Coolers Received: 1 Cooler Temperatures: 30

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 Intact? Yes No

Trip Blank Matrix? Yes No

Number of Encores? Soil Water N/A N/A

Number of Soil Field Kits?

Summary of Comments: _____

Signature: _____ Date: 9/19/04

Review Signature: _____