



12/27/04

Technical Report for

S M Stoller

Star Center-WWNA Monthly; Largo, FL

7030-226

Accutest Job Number: F27170

Sampling Date: 10/05/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 12



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


Harry Behzadi, Ph.D.
Laboratory Director

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

S M Stoller

Job No: F27170

Star Center-WWNA Monthly; Largo, FL
Project No: 7030-226

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F27170-1	10/05/04	09:48 JPC	10/05/04	AQ	Ground Water	PIN18-RW02-N001
F27170-2	10/05/04	09:45 JPC	10/05/04	AQ	Ground Water	PIN18-RW03-N001
F27170-3	10/05/04	09:51 JPC	10/05/04	AQ	Ground Water	PIN18-RW0501-N001
F27170-4	10/05/04	09:58 JPC	10/05/04	AQ	Ground Water	PIN18-EFF1-N001
F27170-5	10/05/04	10:03 JPC	10/05/04	AQ	Ground Water	PIN18-EFF2-N001

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27170

Site: Star Center-WWNA Monthly; Largo, FL

Report Date 10/20/2004

5 Sample were collected on 10/05/2004 and were received at Accutest on 10/05/2004 properly preserved, at 3.2 Deg. C and intact. These Samples received an Accutest job number of F27170. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7263

All samples were analyzed within the recommended method holding time.

All samples were digested within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27162-2DUP, F27162-2MS, F27162-2MSD, F27162-2SDL 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: October 20, 2004

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

Report of Analysis

3.1
3

Client Sample ID: PIN18-RW02-N001	Date Sampled: 10/05/04
Lab Sample ID: F27170-1	Date Received: 10/05/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	64.3	10	3.5	ug/l	1	10/13/04	10/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4034

(2) Prep QC Batch: MP7263

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

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3

Client Sample ID: PIN18-RW03-N001	Date Sampled: 10/05/04
Lab Sample ID: F27170-2	Date Received: 10/05/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	35.3	10	3.5	ug/l	1	10/13/04	10/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4034

(2) Prep QC Batch: MP7263

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID: PIN18-RW0501-N001	
Lab Sample ID: F27170-3	Date Sampled: 10/05/04
Matrix: AQ - Ground Water	Date Received: 10/05/04
	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	116	10	3.5	ug/l	1	10/13/04	10/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4034

(2) Prep QC Batch: MP7263

RL = Reporting Limit
 MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID:	PIN18-EFF1-N001	
Lab Sample ID:	F27170-4	Date Sampled: 10/05/04
Matrix:	AQ - Ground Water	Date Received: 10/05/04
Project:	Star Center-WWNA Monthly; Largo, FL	Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	40.4	10	3.5	ug/l	1	10/13/04	10/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4034

(2) Prep QC Batch: MP7263

RL = Reporting Limit
 MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID: PIN18-EFF2-N001	Date Sampled: 10/05/04
Lab Sample ID: F27170-5	Date Received: 10/05/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Monthly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.3 B	10	3.5	ug/l	1	10/13/04	10/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4034

(2) Prep QC Batch: MP7263

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F27170

Account's Job Number:

Client: S.M. Stiller

Project: WVVA

Date Received: 10-5-07

Time Received: 16:00

of Coolers Received: 2

Cooler Temperatures: 3 2 3 0

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

Trip Blank Matrix ?

Yes No

Number of Encores ?

Yes No

Number of Soil Field Kits ?

Yes No

Summary of Comments:

0

Signature:

[Handwritten Signature]

Date:

10-5-07

Review Signature:



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27225

Sampling Date: 10/06/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **13**



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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4.1: Chain of Custody	12



Sample Summary

S M Stoller

Job No: F27225

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F27225-1	10/06/04	15:15	SDL	10/07/04	AQ Ground Water	PIN15-M14S
F27225-2	10/06/04	10:25	SDL	10/07/04	AQ Ground Water	PIN15-0562
F27225-3	10/06/04	09:45	SDL	10/07/04	AQ Ground Water	PIN15-0577

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27225

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/22/2004

3 Samples were collected on 10/06/2004 and were received at Accutest on 10/07/2004 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F27225. 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.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11543

All method blanks for this batch meet method specific criteria.

Samples F27225-2MS, F27225-2MSD 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: MP7271

All samples were digested within the recommended method holding time.

Samples F27206-2DUP, F27206-2MS, F27206-2MSD, F27206-2SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Arsenic is outside control limits for sample MP7271-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ

Batch ID: GP5966

Samples F27220-1DUP, F27220-1DUP, F27220-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 350.2

Matrix: AQ

Batch ID: GP5998

All method blanks for this batch meet method specific criteria.

Samples F27163-1DUP, F27163-1MS, F27163-1MSD were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 351.3

Matrix: AQ

Batch ID: GP6009

Samples F27261-1DUP, F27261-1MS, F27261-1MSD were used as the QC samples for Nitrogen, Total Kjeldahl, Nitrogen, Total Kjeldahl.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GP5979

Samples F27233-3DUP, F27233-3MS were used as the QC samples for Phosphate, Ortho, Phosphate, Ortho.

All method blanks for this batch meet method specific criteria.

F27225-3 for Phosphate, Ortho: Exceeded holding time. The sample was collected at 10.06.04 at 09:45. The sample was picked up by an Accutest courier on 10.07.04 at 13:30. The sample was analyzed on 10.08.04 at 14:00. The holding time was missed by a few hours.

F27225-2 for Phosphate, Ortho: Exceeded holding time. The sample was collected at 10.06.04 at 10:25. The sample was picked up by an Accutest courier on 10.07.04 at 13:30. The sample was analyzed on 10.08.04 at 14:00. The holding time was missed by a few hours.

Matrix: AQ

Batch ID: GP6003

All method blanks for this batch meet method specific criteria.

Samples F27219-6MS, F27219-6MSD, F27219-6DUP were used as the QC samples for Phosphorus, Total, Phosphorus, Total.

RPD for Duplicate for Phosphorus, Total is outside control limits for sample GP6003-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 376.1

Matrix: AQ

Batch ID: GN15845

Samples F27225-2DUP, F27225-2MS were used as the QC samples for Sulfide, Sulfide.

All method blanks for this batch meet method specific criteria.

The following samples were run 1 day outside of holding time for method EPA 376.1, EPA 376.1: F27225-2, F27225-3 .

Wet Chemistry By Method EPA 405.1

Matrix: AQ

Batch ID: GP5969

Samples F27225-2MS, F27225-2DUP were used as the QC samples for BOD, 5 Day, BOD, 5 Day.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method EPA 405.1, EPA 405.1:

F27225-2: The sample was collected at 10.06.04 at 10:25. The sample was picked up by an Accutest courier on 10.07.04 at 13:30. The sample was read on the 5th day on 10.13.04 at 14:00. The sample was prepped on 10.08.04 at 14:00, about 5 hours outside of holding time.

F27225-3 The sample was collected at 10.06.04 at 09:45. The sample was picked up by an Accutest courier on 10.07.04 at 13:30. The sample was read on the 5th day on 10.13.04 at 14:00. The sample was prepped on 10.08.04 at 14:00, about 6 hours outside of holding time.

RPD for Duplicate for BOD, 5 Day is outside control limits for sample GP5969-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 410.1

Matrix: AQ

Batch ID: GP5973

Samples F27163-1DUP, F27163-1MS were used as the QC samples for Chemical Oxygen Demand, Chemical Oxygen Demand.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 415.1

Matrix: AQ

Batch ID: GN15787

Samples F27163-1DUP, F27163-1MS, F27163-1MSD were used as the QC samples for Total Organic Carbon, Total Organic Carbon.

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: October 22, 2004

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

Report of Analysis

Client Sample ID: PIN15-M14S		Date Sampled: 10/06/04
Lab Sample ID: F27225-1		Date Received: 10/07/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	138	10	3.5	ug/l	1	10/14/04	10/18/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4037

(2) Prep QC Batch: MP7271

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: PIN15-0562		Date Sampled: 10/06/04
Lab Sample ID: F27225-2		Date Received: 10/07/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43017.D	1	10/14/04	AA	10/13/04	OP11543	GOP1302
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	88%		50-125%		

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: PIN15-0562		Date Sampled: 10/06/04
Lab Sample ID: F27225-2		Date Received: 10/07/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day ^a	2.0 U	2.0	2.0	mg/l	1	10/13/04 14:00	KG	EPA 405.1
Chemical Oxygen Demand	79.5	20	2.8	mg/l	1	10/11/04	MCR	EPA 410.1
Chloride	24.0	2.0	1.0	mg/l	1	10/08/04 11:49	KG	EPA 300/SW846 9056
Nitrogen, Ammonia	0.93	0.20	0.024	mg/l	1	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/08/04 11:49	KG	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/08/04 11:49	KG	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	1.5	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho ^a	0.29	0.20	0.040	mg/l	2	10/08/04 14:00	MP	EPA 365.3
Phosphorus, Total	0.071 B	0.10	0.0090	mg/l	1	10/20/04	MP	EPA 365.3
Sulfate	109	4.0	2.0	mg/l	2	10/08/04 15:57	KG	EPA 300/SW846 9056
Sulfide ^a	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	24.8	1.0	0.50	mg/l	1	10/08/04	LE	EPA 415.1

(a) Exceeded holding time.

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: PIN15-0577		Date Sampled: 10/06/04
Lab Sample ID: F27225-3		Date Received: 10/07/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43034.D	5	10/14/04	AA	10/13/04	OP11543	GOP1303
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	2.86	1.2	0.81	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		50-125%		

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: PIN15-0577	Date Sampled: 10/06/04
Lab Sample ID: F27225-3	Date Received: 10/07/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day ^a	14.8	2.0	2.0	mg/l	1	10/13/04 14:00	KG	EPA 405.1
Chemical Oxygen Demand	410	80	11	mg/l	4	10/11/04	MCR	EPA 410.1
Chloride	46.7	2.0	1.0	mg/l	1	10/08/04 12:04	KG	EPA 300/SW846 9056
Nitrogen, Ammonia	19.1	2.0	0.24	mg/l	10	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/08/04 12:04	KG	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/08/04 12:04	KG	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	22.6	1.0	0.50	mg/l	5	10/21/04	KG	EPA 351.3
Phosphate, Ortho ^a	0.24	0.10	0.020	mg/l	1	10/08/04 14:00	MP	EPA 365.3
Phosphorus, Total	0.48	0.10	0.0090	mg/l	1	10/20/04	MP	EPA 365.3
Sulfate	54.6	2.0	1.0	mg/l	1	10/08/04 12:04	KG	EPA 300/SW846 9056
Sulfide ^a	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	111	3.0	1.5	mg/l	3	10/08/04	LE	EPA 415.1

(a) Exceeded holding time.

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES					
S.M. Stoller NAME 7887 Bryan Dairy Road Suite 260 ADDRESS Largo FL 33977 CITY STATE ZIP SEND REPORT TO: PHONE #		STAR Center Quarterly Sampling PROJECT NAME Largo, FL LOCATION 7030-226 PROJECT NO. FAX #				Asesnic TRPH - FLPRO TOC 415.1 BOD 405.1 COD, TUN, Total P Ammonia, Nitrite Cl ⁻ , SO ₄ ²⁻ , NO ₃ ⁻ Orthophosphate Sulfide 376.1				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE LIQ - 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	HCl	NO ₂	INOC		HERO	NONE			
1	PIN15-M145	10/6/04	1515	SDL	GW	1		1							
2	PIN15-0562	10/6/04	1025	DT	GW	9	3	3			2	1	1	1	3
3	PIN15-0577	10/6/04	0945	SDL	GW	9	3	4			2	1	1	1	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 									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
RELINQUISHED BY SAMPLER: 1. <i>Bene W. Heale</i>	DATE TIME: 10/7/04 1330	RECEIVED BY: 1. <i>M. Val...</i>	DATE TIME: 10/7/04 1330	RELINQUISHED BY: 2. <i>M. Val...</i>	DATE TIME: 15:30	RECEIVED BY: 2. <i>M. Val...</i>	DATE TIME: 3:30 pm								
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 2.4 C							

4.1
4



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27262

Sampling Date: 10/08/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **13**



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: F27262

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27262-1	10/08/04	08:40 SDL	10/08/04	AQ	Ground Water	PIN15-0569
F27262-2	10/08/04	10:40 SDL	10/08/04	AQ	Ground Water	PIN15-0570
F27262-3	10/08/04	09:00 SDL	10/08/04	AQ	Ground Water	PIN12-S35B
F27262-4	10/08/04	10:55 SDL	10/08/04	AQ	Ground Water	PIN12-S37B

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27262

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/22/2004

4 Sample were collected on 10/08/2004 and were received at Accutest on 10/08/2004 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of F27262. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7290

All samples were digested within the recommended method holding time.

Samples F27251-2DUP, F27251-2MS, F27251-2MSD, F27251-2SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ

Batch ID: GP6004

All samples were distilled within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27263-2DUP, F27263-2DUP, F27263-2MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

Matrix Spike Recovery for Chloride is outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method EPA 350.2

Matrix: AQ

Batch ID: GP5998

All samples were distilled within the recommended method holding time.

Samples F27163-1DUP, F27163-1MS, F27163-1MSD were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Matrix: AQ

Batch ID: GP6008

All samples were distilled within the recommended method holding time.

Samples F27262-1DUP, F27262-1MS were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 351.3

Matrix: AQ

Batch ID: GP6009

All samples were distilled within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27261-1DUP, F27261-1MS, F27261-1MSD were used as the QC samples for Nitrogen, Total Kjeldahl, Nitrogen, Total Kjeldahl.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GP5965

All samples were distilled within the recommended method holding time.

Samples F27260-1DUP, F27260-1MS, F27260-1MSD were used as the QC samples for Phosphate, Ortho, Phosphate, Ortho.

All method blanks for this batch meet method specific criteria.

Matrix: AQ

Batch ID: GP6003

All samples were distilled within the recommended method holding time.

Samples F27219-6MS, F27219-6MSD, F27219-6DUP were used as the QC samples for Phosphorus, Total, Phosphorus, Total.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Phosphorus, Total is outside control limits for sample GP6003-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 376.1

Matrix: AQ

Batch ID: GN15845

All method blanks for this batch meet method specific criteria.

Samples F27225-2DUP, F27225-2MS were used as the QC samples for Sulfide, Sulfide.

Wet Chemistry By Method EPA 405.1

Matrix: AQ

Batch ID: GP5972

All samples were distilled within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27283-1DUP, F27283-1MS were used as the QC samples for BOD, 5 Day, BOD, 5 Day.

Wet Chemistry By Method EPA 410.1

Matrix: AQ

Batch ID: GP5973

All samples were distilled within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27163-1DUP, F27163-1MS were used as the QC samples for Chemical Oxygen Demand, Chemical Oxygen Demand.

Wet Chemistry By Method EPA 415.1

Matrix: AQ

Batch ID: GN15808

All method blanks for this batch meet method specific criteria.

Samples F27253-1DUP, F27253-1MS, F27253-1MSD were used as the QC samples for Total Organic Carbon, Total Organic Carbon.

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: October 25, 2004

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

Report of Analysis

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Client Sample ID: PIN15-0569		Date Sampled: 10/08/04
Lab Sample ID: F27262-1		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	12.7	2.0	2.0	mg/l	1	10/15/04 08:30	SJL	EPA 405.1
Chemical Oxygen Demand	236	40	5.7	mg/l	2	10/11/04	MCR	EPA 410.1
Chloride	164	2.0	1.0	mg/l	1	10/09/04 15:25	LM	EPA 300/SW846 9056
Nitrogen, Ammonia	0.93	0.20	0.024	mg/l	1	10/21/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/09/04 15:25	LM	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/09/04 15:25	LM	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	2.2	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.18	0.10	0.020	mg/l	1	10/09/04 12:45	SM	EPA 365.3
Phosphorus, Total	0.19	0.10	0.0090	mg/l	1	10/20/04	MP	EPA 365.3
Sulfate	122	4.0	2.0	mg/l	2	10/10/04 15:55	KG	EPA 300/SW846 9056
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	73.8	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

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: PIN15-0570		Date Sampled: 10/08/04
Lab Sample ID: F27262-2		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

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-S35B	Date Sampled: 10/08/04
Lab Sample ID: F27262-3	Date Received: 10/08/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	24.9	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

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-S35B		Date Sampled: 10/08/04
Lab Sample ID: F27262-3		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	4.1	2.0	2.0	mg/l	1	10/15/04 08:30	SJL	EPA 405.1
Chemical Oxygen Demand	308	80	11	mg/l	4	10/11/04	MCR	EPA 410.1
Chloride	303	4.0	2.0	mg/l	2	10/10/04 16:10	KG	EPA 300/SW846 9056
Nitrogen, Ammonia	1.4	0.20	0.024	mg/l	1	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/09/04 15:39	LM	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/09/04 15:39	LM	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	2.6	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.15	0.10	0.020	mg/l	1	10/09/04 12:45	SM	EPA 365.3
Phosphorus, Total	0.065 B	0.10	0.0090	mg/l	1	10/20/04	MP	EPA 365.3
Sulfate	40.7	2.0	1.0	mg/l	1	10/09/04 15:39	LM	EPA 300/SW846 9056
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	69.6	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

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-S37B	
Lab Sample ID: F27262-4	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/08/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.7 B	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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

ACCUTEST JOB #: **F27262**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION										ANALYTICAL INFORMATION										MATRIX CODES		
NAME: S.M. Steller ADDRESS: 7887 Bryan Dairy Road #260 Large FL 33777 CITY, STATE ZIP		PROJECT NAME: STAR Center Quarterly Sampling LOCATION: Large FL 7030-226 PROJECT NO.: FAX #:										TOC PbD Sulfide COD Ammonia Chloride Nitrate Nitrite Phosphate As										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					TOC	PbD	Sulfide	COD	Ammonia	Chloride	Nitrate	Nitrite	Phosphate	As	LAB USE ONLY		
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NOI	NOH	HNO3	H2SO4	HClO4													
1	PIN15-0569	10-8-04	0840	SDL	GW	7		3	2	2	1	1	3	1	1									
2	PIN15-0570	10-8-04	1040	SDL	GW	1		1																
3	PIN12-535 B	10-8-04	0900	DT	GW	8		3	1	2	2	1	1	3	1	1								
4	PIN12-537 B	10-8-04	1055	DT	GW	1		1																
<input checked="" type="checkbox"/> STANDARD <input 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)										COMMENTS/REMARKS												
DATA TURNAROUND INFORMATION APPROVED BY: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED																								
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:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	
1. <i>Doc Frank</i>	10-8-04/1230	1. <i>Stephen C. Lutz</i>	2. <i>Accutest</i>	10/8/04	4. <i>[Signature]</i>	4.	10/8/04	2. <i>[Signature]</i>	4.	10/8/04	4. <i>[Signature]</i>	4.	10/8/04	4:30										
3.		3.	4.			4.			5.			5.												
SEAL #										PRESERVE WHERE APPLICABLE										ON ICE	TEMPERATURE			
																				<input type="checkbox"/>	16 C			

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F272602**
 Client: **SM Stoller** Project: **Star Center 1/4 Y**
 Date Received: **10/8/04** Time Received: **4:30**
 # of Coolers Received: **1** Cooler Temperatures: **1.6**
 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
 Trip Blank Matrix? Soil Water
 Number of Encores?
 Number of Soil Field Kits?

Summary of Comments: **Received An extra Sample net on the COC 1 set of VIALS (PINUS 10:00 AM 10:40) That sample was made sample #5 on the sample list.**

Signature: *[Signature]* Date: **10/8/04**
 Review Signature: *[Signature]*

ASDC/HW 05/1/03



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27263

Sampling Date: 10/07/04

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: F27263

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F27263-1	10/07/04	16:35	SDL	10/08/04	AQ Ground Water	PIN15-0576
F27263-2	10/07/04	14:25	SDL	10/08/04	AQ Ground Water	PIN15-0574
F27263-3	10/07/04	15:28	SDL	10/08/04	AQ Ground Water	PIN12-S33C
F27263-4	10/07/04	13:57	SDL	10/08/04	AQ Ground Water	PIN12-S32B
F27263-5	10/07/04	16:05	SDL	10/08/04	AQ Ground Water	PIN12-S31B
F27263-6	10/07/04	13:40	SDL	10/08/04	AQ Trip Blank Water	PIN15-0613

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27263

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/26/2004

5 Samples, 1 Trip Blank were collected on 10/07/2004 and were received at Accutest on 10/08/2004 properly preserved, at 1.6 Deg. C and intact. These Samples received an Accutest job number of F27263. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Extra sample was sent in that was not noted on the chain of custody. Sample ID PIN15-0613 collected 10/07/04 at 13:40. This sample was logged in for Volatiles per the bottles received.

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 SW846 8260B

Matrix: AQ

Batch ID: VN56

All method blanks for this batch meet method specific criteria.

Samples F27305-2MS, F27305-2MSD were used as the QC samples indicated.

MS/MSD recoveries for 2-Chloroethyl vinyl ether are outside control limits. RPD for MS/MSD for 2-Chloroethyl vinyl ether is outside control limits. Probable cause due to matrix interference.

Matrix: AQ

Batch ID: VN57

Samples F27280-1MS, F27280-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11543

All method blanks for this batch meet method specific criteria.

Samples F27225-2MS, F27225-2MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7290

All method blanks for this batch meet method specific criteria.

Samples F27251-2DUP, F27251-2MS, F27251-2MSD, F27251-2SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ

Batch ID: GP6004

All method blanks for this batch meet method specific criteria.

Samples F27263-2DUP, F27263-2DUP, F27263-2MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

Matrix Spike Recovery for Chloride are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method EPA 350.2

Matrix: AQ

Batch ID: GP5998

Samples F27163-1DUP, F27163-1MS, F27163-1MSD were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 351.3

Matrix: AQ

Batch ID: GP6009

All method blanks for this batch meet method specific criteria.

Samples F27261-1DUP, F27261-1MS, F27261-1MSD were used as the QC samples for Nitrogen, Total Kjeldahl, Nitrogen, Total Kjeldahl.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GP5965

All method blanks for this batch meet method specific criteria.

Samples F27260-1DUP, F27260-1MS, F27260-1MSD were used as the QC samples for Phosphate, Ortho, Phosphate, Ortho.

Matrix: AQ

Batch ID: GP6012

All method blanks for this batch meet method specific criteria.

Samples F27250-2MS, F27250-2MSD, F27250-2DUP were used as the QC samples for Phosphorus, Total, Phosphorus, Total.

RPD for Duplicate for Phosphorus, Total are outside control limits for sample GP6012-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 376.1

Matrix: AQ

Batch ID: GN15845

All method blanks for this batch meet method specific criteria.

Samples F27225-2DUP, F27225-2MS were used as the QC samples for Sulfide, Sulfide.

Wet Chemistry By Method EPA 405.1

Matrix: AQ

Batch ID: GP5971

Samples F27263-2MS, F27263-2DUP were used as the QC samples for BOD, 5 Day, BOD, 5 Day.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for BOD, 5 Day are outside control limits for sample GP5971-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 410.1

Matrix: AQ

Batch ID: GP5973

Samples F27163-1DUP, F27163-1MS were used as the QC samples for Chemical Oxygen Demand, Chemical Oxygen Demand.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 415.1

Matrix: AQ

Batch ID: GN15808

All method blanks for this batch meet method specific criteria.

Samples F27253-1DUP, F27253-1MS, F27253-1MSD were used as the QC samples for Total Organic Carbon, Total Organic Carbon.

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: October 26, 2004

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

Report of Analysis

Client Sample ID: PIN15-0576	
Lab Sample ID: F27263-1	Date Sampled: 10/07/04
Matrix: AQ - Ground Water	Date Received: 10/08/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001254.D	1	10/18/04	NJ	n/a	n/a	VN56
Run #2							

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

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	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	14.1	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

31
3

Client Sample ID: PIN15-0576		Date Sampled: 10/07/04
Lab Sample ID: F27263-1		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	6.5	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	107%		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	89%		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: PIN15-0576		Date Sampled: 10/07/04
Lab Sample ID: F27263-1		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43025.D	1	10/14/04	AA	10/13/04	OP11543	GOP1302
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.859	0.24	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		50-125%		

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:	PIN15-0574	
Lab Sample ID:	F27263-2	Date Sampled: 10/07/04
Matrix:	AQ - Ground Water	Date Received: 10/08/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001255.D	1	10/18/04	NJ	n/a	n/a	VN56
Run #2	N0001272.D	5	10/19/04	NJ	n/a	n/a	VN57

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	0.96	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	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	0.84	1.0	0.50	ug/l	J
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	330 ^a	5.0	2.5	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	0.65	1.0	0.50	ug/l	J
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	0.81	1.0	0.50	ug/l	J
79-01-6	Trichloroethylene	35.4	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: PIN15-0574		Date Sampled: 10/07/04
Lab Sample ID: F27263-2		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	58.9	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%	110%	86-115%
17060-07-0	1,2-Dichloroethane-D4	102%	106%	73-126%
2037-26-5	Toluene-D8	98%	99%	86-112%
460-00-4	4-Bromofluorobenzene	86%	90%	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

32
3

Client Sample ID: PIN15-0574		Date Sampled: 10/07/04
Lab Sample ID: F27263-2		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43026.D	1	10/14/04	AA	10/13/04	OP11543	GOP1302
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.619	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	102%		50-125%		

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: PIN15-0574		Date Sampled: 10/07/04
Lab Sample ID: F27263-2		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.0 U	2.0	2.0	mg/l	1	10/14/04 11:30	MP	EPA 405.1
Chemical Oxygen Demand	205	40	5.7	mg/l	2	10/11/04	MCR	EPA 410.1
Chloride	64.2	2.0	1.0	mg/l	1	10/09/04 12:33	LM	EPA 300/SW846 9056
Nitrogen, Ammonia	3.0	0.20	0.024	mg/l	1	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.14	0.10	0.050	mg/l	1	10/09/04 12:33	LM	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/09/04 12:33	LM	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	3.9	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.18	0.10	0.020	mg/l	1	10/09/04 12:45	SM	EPA 365.3
Phosphorus, Total	0.11	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfate	63.2	2.0	1.0	mg/l	1	10/09/04 12:33	LM	EPA 300/SW846 9056
Sulfide	1.7	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	58.6	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

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-S33C		Date Sampled: 10/07/04
Lab Sample ID: F27263-3		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.5 B	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

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-S32B		Date Sampled: 10/07/04
Lab Sample ID: F27263-4		Date Received: 10/08/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	15.2	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

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-S31B	
Lab Sample ID: F27263-5	Date Sampled: 10/07/04
Matrix: AQ - Ground Water	Date Received: 10/08/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	60.7	10	3.5	ug/l	1	10/19/04	10/20/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4043

(2) Prep QC Batch: MP7290

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: PIN15-0613	
Lab Sample ID: F27263-6	Date Sampled: 10/07/04
Matrix: AQ - Trip Blank Water	Date Received: 10/08/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001256.D	1	10/18/04	NJ	n/a	n/a	VN56
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: PIN15-0613		Date Sampled: 10/07/04
Lab Sample ID: F27263-6		Date Received: 10/08/04
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	109%		86-115%
17060-07-0	1,2-Dichloroethane-D4	104%		73-126%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	87%		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

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 #: **F27263**
ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES									
NAME: S.M. Stoller ADDRESS: 7887 Bryan Dairy Rd Suite 260 City: Largo STATE: FL ZIP: 33777 SEND REPORT TO: _____ PHONE #: _____			PROJECT NAME: STAR Center Quarterly Sampling LOCATION: Large FL PROJECT NO.: _____ FAX #: _____				TOC 415.1 BOD 405.1 Ammonia Total P Alkalinity Or Phosphate Sulfide 376.1 Arsenic VOCs - 82603				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				TRPH - FL PRO	TOC	BOD	Ammonia	Total P	Alkalinity	Or Phosphate	Sulfide	Arsenic	VOCs	LAB USE ONLY
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	AC	INOC	HSO4											
1	PIN15-0576	10-7-04	1635	SDL	GW	5	3		2											
2	PIN15-0574	10-7-04	1425	SDL	GW	12	3	3	4	2										
3	PIN12-S33C	10-7-04	1528	DT	GW	1														
4	PIN12-S32B	10-7-04	1357	DT	GW	1														
5	PIN12-S31B	10-7-04	1605	DT	GW	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 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													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																				
RELINQUISHED BY: 1. <i>David [Signature]</i>	DATE TIME: 10/8/04 1:23:0	RECEIVED BY: 1. <i>[Signature]</i>	DATE TIME: _____	RELINQUISHED BY: 2. <i>[Signature]</i>	DATE TIME: 10/8/04 4:30	RECEIVED BY: 2. <i>[Signature]</i>	DATE TIME: 10/8/04 4:30	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: _____	TEMPERATURE: 16 C

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27263**

Client: **SM Staller** Project: **Star Center 1/414**

Date Received: **10/8/04** Time Received: **4:30**

of Coolers Received: **1** Cooler Temperatures: **1.6**

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

Alr BHL 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
- Trip Blank Matrix ? Yes No
- Number of Encores ? Soil Water
- Number of Soil Field Kits ?

Summary of Comments: **Client Sent extra set of vials**
Not on Chain. Put samples at end of job.
Vials will be F27263-6

Signature: *[Signature]* Date: **10/8/04**

Review Signature:

ASSD/HRW 05/11/03



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27324

Sampling Date: 10/11/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **21**



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: F27324

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27324-1	10/11/04	08:40 SDL	10/11/04	AQ	Ground Water	PIN15-M03S
F27324-2	10/11/04	09:35 SDL	10/11/04	AQ	Ground Water	PIN15-0575
F27324-3	10/11/04	10:10 SDL	10/11/04	AQ	Ground Water	PIN15-0573
F27324-4	10/11/04	10:50 SDL	10/11/04	AQ	Ground Water	PIN15-0578
F27324-5	10/11/04	08:55 SDL	10/11/04	AQ	Ground Water	PIN12-S68B
F27324-6	10/11/04	11:05 SDL	10/11/04	AQ	Ground Water	PIN15-M32S
F27324-7	10/11/04	00:00 SDL	10/11/04	AQ	Trip Blank Water	PIN15-0615

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27324

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/22/2004

6 Samples, 1 Trip Blank were collected on 10/11/2004 and were received at Accutest on 10/11/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F27324. 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 PIN16-0614 collected 10.11.04 at 11:30 was received, but was not noted on the chain of custody. This sample was logged in for Volatiles per Julian Caballero.

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 SW846 8260B

Matrix: AQ

Batch ID: VM58

Samples F27321-1MS, F27321-1MSD 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. Probable cause due to matrix interference.

Blank Spike Recovery for 2-Chloroethyl vinyl ether is above control limits. The associated samples were non-detect for this compound. Data not adversely affected.

F27324-2: Sample was not preserved to a pH < 2; reported results are considered minimum values.

F27324-3: Sample was not preserved to a pH < 2; reported results are considered minimum values.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11577

All method blanks for this batch meet method specific criteria.

Samples F27452-3MS, F27452-3MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7292

Samples F27478-1MS, F27478-1MSD, F27478-1SDL, F27478-1DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Arsenic is outside control limits for sample MP7292-D1. RPD acceptable due to low duplicate and sample concentrations.

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: October 25, 2004

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

Report of Analysis

Client Sample ID: PIN15-M03S		Date Sampled: 10/11/04
Lab Sample ID: F27324-1		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	15.5	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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: PIN15-0575		Date Sampled: 10/11/04
Lab Sample ID: F27324-2		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M0001321.D	1	10/19/04	NJ	n/a	n/a	VM58
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	2.1	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	0.71	1.0	0.50	ug/l	J
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	4.4	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	1.9	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	1.9	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: PIN15-0575		Date Sampled: 10/11/04
Lab Sample ID: F27324-2		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	35.9	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%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

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: PIN15-0575		Date Sampled: 10/11/04
Lab Sample ID: F27324-2		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43159.D	8	10/19/04	AA	10/16/04	OP11577	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	4.61	1.9	1.3	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		50-125%		

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:	PIN15-0573	
Lab Sample ID:	F27324-3	Date Sampled: 10/11/04
Matrix:	AQ - Ground Water	Date Received: 10/11/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M0001322.D	1	10/19/04	NJ	n/a	n/a	VM58
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	0.66	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	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	12.6	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	0.55	1.0	0.50	ug/l	J
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	1.2	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: PIN15-0573	
Lab Sample ID: F27324-3	Date Sampled: 10/11/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly 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	12.7	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	99%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

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: PIN15-0573		Date Sampled: 10/11/04
Lab Sample ID: F27324-3		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43160.D	2	10/19/04	AA	10/16/04	OP11577	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.76	0.50	0.34	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	85%		50-125%		

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: PIN15-0578	
Lab Sample ID: F27324-4	Date Sampled: 10/11/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001323.D	1	10/19/04	NJ	n/a	n/a	VM58
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	10.2	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	1.8	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	0.91	1.0	0.50	ug/l	J
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: PIN15-0578		Date Sampled: 10/11/04
Lab Sample ID: F27324-4		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	25.2	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	96%		73-126%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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: PIN15-0578		Date Sampled: 10/11/04
Lab Sample ID: F27324-4		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43161.D	2	10/19/04	AA	10/16/04	OP11577	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.16	0.48	0.32	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	86%		50-125%		

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-S68B	
Lab Sample ID: F27324-5	Date Sampled: 10/11/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	61.5	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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-M32S		Date Sampled: 10/11/04
Lab Sample ID: F27324-6		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	8.1 B	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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:	PIN15-0615	
Lab Sample ID:	F27324-7	Date Sampled: 10/11/04
Matrix:	AQ - Trip Blank Water	Date Received: 10/11/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001327.D	1	10/19/04	NJ	n/a	n/a	VM58
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: PIN15-0615	
Lab Sample ID: F27324-7	Date Sampled: 10/11/04
Matrix: AQ - Trip Blank Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly 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	95%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	102%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION				MATRIX CODES
NAME: S M Stoller ADDRESS: 7887 Bryan Dairy Road Suite 260 City: Largo FL 33777 STATE: FL ZIP: 33777		PROJECT NAME: STAR Center Quarterly Samp LOCATION: Largo FL PROJECT NO.: 7030 - 226		Analytical Parameters: Arsenic, TRPH, VOCs, 8260				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OT - 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:			HC	HC/CH	HRSD	HS/SD	MS/SD	MS/NE	
1	PIN15-M035	10/11/04	0840	SDL GW	1			1					
2	PIN15-0575	10/11/04	0935	SDL GW	5	3		2					
3	PIN15-0573	10/11/04	1010	SDL GW	5	3		2					
4	PIN15-0578	10/11/04	1050	SDL GW	5	3		2					
5	PIN12-S68B	10/11/04	0855	DT GW	1			1					
6	PIN15-M825	10/11/04	1105	DT GW	1			1					

DATA TURNAROUND INFORMATION	DATA DELIVERABLE INFORMATION	COMMENTS/REMARKS
<input 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 type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
1. <i>David Lopez</i>	10-11-04 11:30	1. <i>[Signature]</i>	10/11/04 14:30	2. <i>[Signature]</i>	10/11/04 16:35
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
3.		3.		4.	
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	DATE TIME:	RELINQUISHED BY:	DATE TIME:
5.		5.			

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27324**
 Client: **SM Stoller** Project: **Star Center 1414**
 Date Received: **10/11/04** Time Received: **16:35**
 # of Coolers Received: **1** Cooler Temperatures: **2.6**
 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
- Trip Blank Matrix ? Soil Water
- Number of Encores ?
- Number of Soil Field Kits ?

Summary of Comments:

Received PIN-0615 @ 10.11.04 1130
Per Julian C. - please login at the end of my job
F27324-7
Sue Bice 10/12/04
 Signature: *[Signature]* Date: **10/11/04**

Review Signature: *[Signature]*
 ASBD/HW 08/1/03



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27325

Sampling Date: 10/08/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **39**



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: F27325

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27325-1	10/08/04	13:15 SDL	10/11/04	AQ	Ground Water	PIN15-0557
F27325-2	10/08/04	13:50 SDL	10/11/04	AQ	Ground Water	PIN15-M30S
F27325-3	10/08/04	14:15 SDL	10/11/04	AQ	Ground Water	PIN15-M30D
F27325-4	10/08/04	15:05 SDL	10/11/04	AQ	Ground Water	PIN15-0563
F27325-5	10/08/04	13:25 SDL	10/11/04	AQ	Ground Water	PIN15-M31S
F27325-6	10/08/04	14:00 SDL	10/11/04	AQ	Ground Water	PIN15-M31D
F27325-7	10/08/04	15:35 SDL	10/11/04	AQ	Ground Water	PIN15-M29D
F27325-8	10/08/04	14:47 SDL	10/11/04	AQ	Ground Water	PIN15-M29S
F27325-9	10/08/04	00:00 SDL	10/11/04	AQ	Ground Water	PIN15-0612
F27325-10	10/08/04	00:00 SDL	10/11/04	AQ	Trip Blank Water	PIN15-0614

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27325

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/22/2004

9 Samples, 1 Trip Blank were collected on 10/08/2004 and were received at Accutest on 10/11/2004 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F27325. 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 PIN15-0614 collected 10.08.04 at 14:00 was received, but was not noted on the chain of custody. This sample was logged in for Volatiles per Julian Caballero.

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 SW846 8260B

Matrix: AQ

Batch ID: VM56

All samples were analyzed within the recommended method holding time.

Samples F27229-9MS, F27229-9MSD 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. Probable cause due to matrix interference.

Blank Spike Recovery for 2-Chloroethyl vinyl ether is above control limits. The associated samples were non-detect for this compound. Data not adversely affected.

Matrix: AQ

Batch ID: VM58

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27321-1MS, F27321-1MSD 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. Probable cause due to matrix interference.

Matrix: AQ

Batch ID: VM60

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples N80320-1MS, N80320-1MSD were used as the QC samples indicated.

MS/MSD recoveries for 2-Chloroethyl vinyl ether are outside control limits. Probable cause due to matrix interference.

Blank Spike Recovery for 2-Chloroethyl vinyl ether is above control limits. The associated samples were non-detect for this compound. Data not adversely affected.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11565

Samples F27325-9MS, F27325-9MSD 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: MP7292

Samples F27478-1MS, F27478-1MSD, F27478-1SDL, F27478-1DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Arsenic is outside control limits for sample MP7292-D1. RPD acceptable due to low duplicate and sample concentrations.

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: October 25, 2004

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

Report of Analysis

Client Sample ID: PIN15-0557	
Lab Sample ID: F27325-1	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001280.D	1	10/18/04	NJ	n/a	n/a	VM56
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

31
3

Client Sample ID: PIN15-0557		Date Sampled: 10/08/04
Lab Sample ID: F27325-1		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	2.9	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	97%		73-126%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		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

31
3

Client Sample ID: PIN15-0557		Date Sampled: 10/08/04
Lab Sample ID: F27325-1		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43095.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.302	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		50-125%		

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-M30S	
Lab Sample ID: F27325-2	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001281.D	1	10/18/04	NJ	n/a	n/a	VM56
Run #2							

Run #1	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

32
3

Client Sample ID: PIN15-M30S		Date Sampled: 10/08/04
Lab Sample ID: F27325-2		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	4.3	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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		83-119%

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

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

Report of Analysis

32
3

Client Sample ID: PIN15-M30S		Date Sampled: 10/08/04
Lab Sample ID: F27325-2		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43096.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.201	0.24	0.16	mg/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	92%		50-125%		

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-M30D	
Lab Sample ID: F27325-3	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001314.D	50	10/19/04	NJ	n/a	n/a	VM58
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	ND	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	500	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: PIN15-M30D		Date Sampled: 10/08/04
Lab Sample ID: F27325-3		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, 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	2120	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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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: PIN15-M30D		Date Sampled: 10/08/04
Lab Sample ID: F27325-3		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43098.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.429	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	91%		50-125%		

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: PIN15-0563	
Lab Sample ID: F27325-4	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001356.D	1	10/20/04	NJ	n/a	n/a	VM60
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	2.1	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: PIN15-0563		Date Sampled: 10/08/04
Lab Sample ID: F27325-4		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	102%		86-115%
17060-07-0	1,2-Dichloroethane-D4	94%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	104%		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: PIN15-0563		Date Sampled: 10/08/04
Lab Sample ID: F27325-4		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43099.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.587	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	92%		50-125%		

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-M31S	
Lab Sample ID: F27325-5	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001283.D	1	10/18/04	NJ	n/a	n/a	VM56
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

3.5
3

Client Sample ID: PIN15-M31S		Date Sampled: 10/08/04
Lab Sample ID: F27325-5		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	0.99	1.0	0.50	ug/l	J
	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	95%		73-126%
2037-26-5	Toluene-D8	100%		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

3.5
3

Client Sample ID: PIN15-M31S		Date Sampled: 10/08/04
Lab Sample ID: F27325-5		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43100.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.539	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	106%		50-125%		

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-M31D		Date Sampled: 10/08/04
Lab Sample ID: F27325-6		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001355.D	1	10/20/04	NJ	n/a	n/a	VM60
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	19.8	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	1.4	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	2.8	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-M31D		Date Sampled: 10/08/04
Lab Sample ID: F27325-6		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	3.0	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	104%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	97%		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

3.6
3

Client Sample ID: PIN15-M31D		Date Sampled: 10/08/04
Lab Sample ID: F27325-6		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43101.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.35	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		50-125%		

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-M29D	
Lab Sample ID: F27325-7	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001357.D	1	10/20/04	NJ	n/a	n/a	VM60
Run #2							

Run #1	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	1.2	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

37
3

Client Sample ID: PIN15-M29D		Date Sampled: 10/08/04
Lab Sample ID: F27325-7		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	102%		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	104%		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

37
3

Client Sample ID: PIN15-M29D		Date Sampled: 10/08/04
Lab Sample ID: F27325-7		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43102.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.430	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		50-125%		

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-M29S		Date Sampled: 10/08/04
Lab Sample ID: F27325-8		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001285.D	1	10/18/04	NJ	n/a	n/a	VM56
Run #2							

Run #1	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 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

Report of Analysis

Client Sample ID: PIN15-M29S		Date Sampled: 10/08/04
Lab Sample ID: F27325-8		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	102%		86-115%
17060-07-0	1,2-Dichloroethane-D4	90%		73-126%
2037-26-5	Toluene-D8	98%		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: PIN15-M29S		Date Sampled: 10/08/04
Lab Sample ID: F27325-8		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43103.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.334	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	98%		50-125%		

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-M29S	
Lab Sample ID: F27325-8	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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: PIN15-0612	
Lab Sample ID: F27325-9	Date Sampled: 10/08/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001358.D	1	10/20/04	NJ	n/a	n/a	VM60
Run #2							

Run #1	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	13.5	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

39
3

Client Sample ID: PIN15-0612		Date Sampled: 10/08/04
Lab Sample ID: F27325-9		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	95%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	106%		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

3.9
3

Client Sample ID: PIN15-0612		Date Sampled: 10/08/04
Lab Sample ID: F27325-9		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43104.D	1	10/16/04	AA	10/15/04	OP11565	GOP1304
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.193	0.24	0.16	mg/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		50-125%		

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: PIN15-0612	Date Sampled: 10/08/04
Lab Sample ID: F27325-9	Date Received: 10/11/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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:	PIN15-0614		Date Sampled:	10/08/04
Lab Sample ID:	F27325-10	Date Received:	10/11/04	
Matrix:	AQ - Trip Blank Water		Percent Solids:	n/a
Method:	SW846 8260B			
Project:	Quarterly Sampling, STAR Center, Largo, FL			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0001287.D	1	10/18/04	NJ	n/a	n/a	VM56
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: PIN15-0614		Date Sampled: 10/08/04
Lab Sample ID: F27325-10		Date Received: 10/11/04
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	95%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		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

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>		PROJECT NAME: <u>STAR Center Quarterly Sampling</u> LOCATION: <u>Largo FL</u> PROJECT NO.: <u>7030-226</u>				TRPH - FL PRO VOCs 8260B Arsenic				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID		
SEND REPORT TO: PHONE # _____		FAX # _____								LAB USE ONLY		
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION				PRESERVATION						
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	INCH	INCH	INCH			INCH
1	PIN15-0557	10/8/04	1315	SDL	GW	5	3		2	2	3	
2	PIN15-M30S	10/8/04	1350	SDL	GW	5	3		2	2	3	
3	PIN15-M30D	10/8/04	1415	SDL	GW	5	3		2	2	3	
4	PIN15-0563	10/8/04	1505	SDL	GW	5	3		2	2	3	
5	PIN15-M31S	10/8/04	1325	DT	GW	5	3		2	2	3	
6	PIN15-M31D	10/8/04	1400	DT	GW	5	3		2	2	3	
7	PIN15-M29D	10/8/04	1535	DT	GW	5	3		2	2	3	
8	PIN15-M29S	6/8/04	1447	DT	GW	6	3	1	2	2	3	1
9	PIN15-G12	10/8/04		DT	GW	6	3	1	2	2	3	1
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		<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: _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED												
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY												
RELINQUISHED BY: 1. <u>Dani Frank</u>	DATE TIME: 10-11-04 11:30	RECEIVED BY: 1. <u>[Signature]</u>	RELINQUISHED BY: 2. <u>[Signature]</u>	DATE TIME: 10-35	RECEIVED BY: 3. <u>[Signature]</u>	RELINQUISHED BY: 4. <u>[Signature]</u>	DATE TIME:	RECEIVED BY: 4. <u>[Signature]</u>	RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	
SEAL # _____ PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE <u>3.0</u> C												

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27325**

Client: **S.M. Staller** Project: **Star Center 1/4/14**

Date Received: **10/11/14** Time Received: **16:35**

of Coolers Received: **1** Cooler Temperatures: **3.0**

Delivery Method: FedEx UFS **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
- Trip Blank Matrix ? Soil Water
- Number of Encores ? Soil Water
- Number of Soil Field Kits ? Soil Water

Summary of Comments: **we received PINS-0714 10/8/14**
for Julian. please add to file @ 1400
end of job F27325-10

Signature: **[Signature]** Date: **10/11/14**

Review Signature: **[Signature]** Date: **10/11/14**

ASBD/HW 05/1/03



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27326

Sampling Dates: 10/10/04 - 10/11/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **16**



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: F27326

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27326-1	10/10/04	08:10 DT	10/11/04	AQ	Ground Water	PIN12-0524
F27326-2	10/10/04	09:25 DT	10/11/04	AQ	Ground Water	PIN12-0525
F27326-3	10/10/04	09:50 DT	10/11/04	AQ	Ground Water	PIN12-0526
F27326-4	10/10/04	14:05 DT	10/11/04	AQ	Ground Water	PIN12-S73B
F27326-5	10/10/04	14:00 DT	10/11/04	AQ	Ground Water	PIN12-S73D
F27326-6	10/10/04	14:50 DT	10/11/04	AQ	Ground Water	PIN12-S69B
F27326-7	10/11/04	09:55 DT	10/11/04	AQ	Ground Water	PIN15-0537

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27326

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/27/2004

7 Samples were collected on between 10/10/2004 and 10/11/2004 and were received at Accutest on 10/11/2004 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F27326.A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7292

Samples F27478-1MS, F27478-1MSD, F27478-1SDL, F27478-1DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Duplicate for Arsenic are outside control limits for sample MP7292-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ

Batch ID: GP6006

All samples were analyzed within the recommended method holding time.

Samples F27326-1DUP, F27326-1DUP, F27326-1MS were used as the QC samples for Chloride, Nitrogen, Nitrite, Nitrogen, Nitrate, Sulfate, Chloride.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery for Nitrogen, Nitrite, Sulfate are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix Spike Recovery for Chloride are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

RPD for Duplicate for Nitrogen, Nitrate, Sulfate are outside control limits for sample GP6006-D1, GP6006-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 350.2

Matrix: AQ

Batch ID: GP5998

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27163-1DUP, F27163-1MS, F27163-1MSD were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

Matrix: AQ

Batch ID: GP6008

All samples were analyzed within the recommended method holding time.

Samples F27262-1DUP, F27262-1MS were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 351.3

Matrix: AQ

Batch ID: GP6009

All samples were analyzed within the recommended method holding time.

Samples F27261-1DUP, F27261-1MS, F27261-1MSD were used as the QC samples for Nitrogen, Total Kjeldahl, Nitrogen, Total Kjeldahl.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GP5987

All samples were analyzed within the recommended method holding time.

Samples F27327-4DUP, F27327-4MS were used as the QC samples for Phosphate, Ortho, Phosphate, Ortho.

All method blanks for this batch meet method specific criteria.

F27326-1 for Phosphate, Ortho: Exceeded holding time. The sample was collected at 10.10.04 at 08:10. The sample was picked up by an Accutest courier on 10.11.04 at 14:00. The sample was analyzed on 10.12.04 at 15:00. The holding time was missed by a few hours.

F27326-3 for Phosphate, Ortho: Exceeded holding time. The sample was collected at 10.10.04 at 09:50. The sample was picked up by an Accutest courier on 10.11.04 at 14:00. The sample was analyzed on 10.12.04 at 15:00. The holding time was missed by a few hours.

Matrix: AQ

Batch ID: GP6012

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27250-2MS, F27250-2MSD, F27250-2DUP were used as the QC samples for Phosphorus, Total, Phosphorus, Total.

RPD for Duplicate for Phosphorus, Total is outside control limits for sample GP6012-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 376.1

Matrix: AQ

Batch ID: GN15845

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27225-2DUP, F27225-2MS were used as the QC samples for Sulfide, Sulfide.

Wet Chemistry By Method EPA 405.1

Matrix: AQ

Batch ID: GP5992

All samples were analyzed within the recommended method holding time.

Samples F27326-3DUP, F27326-3MS were used as the QC samples for BOD, 5 Day, BOD, 5 Day.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery for BOD, 5 Day is outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method EPA 410.1

Matrix: AQ

Batch ID: GP5988

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27371-1DUP, F27371-1MS were used as the QC samples for Chemical Oxygen Demand, Chemical Oxygen Demand.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery for Chemical Oxygen Demand are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method EPA 415.1

Matrix: AQ

Batch ID: GN15808

All samples were analyzed within the recommended method holding time.

Samples F27253-1DUP, F27253-1MS, F27253-1MSD were used as the QC samples for Total Organic Carbon, Total Organic Carbon.

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

Report of Analysis

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Client Sample ID: PIN12-0524		Date Sampled: 10/10/04
Lab Sample ID: F27326-1		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.8	2.0	2.0	mg/l	1	10/17/04 08:00	KG	EPA 405.1
Chemical Oxygen Demand	171	20	2.8	mg/l	1	10/14/04	MCR	EPA 410.1
Chloride	206	10	5.0	mg/l	5	10/12/04 18:20	SJL	EPA 300/SW846 9056
Nitrogen, Ammonia	0.36	0.20	0.024	mg/l	1	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/12/04 12:43	SJL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/12/04 12:43	SJL	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	1.6	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho ^a	0.060 B	0.10	0.020	mg/l	1	10/12/04 15:00	KG	EPA 365.3
Phosphorus, Total	0.13	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfate	5.7	2.0	1.0	mg/l	1	10/12/04 12:43	SJL	EPA 300/SW846 9056
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	63.7	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

(a) Exceeded holding time.

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: PIN12-0525	Date Sampled: 10/10/04
Lab Sample ID: F27326-2	Date Received: 10/11/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	25.0	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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: PIN12-0526	Date Sampled: 10/10/04
Lab Sample ID: F27326-3	Date Received: 10/11/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	11.0	2.0	2.0	mg/l	1	10/17/04 08:00	KG	EPA 405.1
Chemical Oxygen Demand	187	20	2.8	mg/l	1	10/14/04	MCR	EPA 410.1
Chloride	309	10	5.0	mg/l	5	10/12/04 18:35	SJL	EPA 300/SW846 9056
Nitrogen, Ammonia	0.33	0.20	0.024	mg/l	1	10/19/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/12/04 12:57	SJL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/12/04 12:57	SJL	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	1.7	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho ^a	0.082 B	0.10	0.020	mg/l	1	10/12/04 15:00	KG	EPA 365.3
Phosphorus, Total	0.16	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfate	170	10	5.0	mg/l	5	10/12/04 18:35	SJL	EPA 300/SW846 9056
Sulfide	3.3	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	39.1	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

(a) Exceeded holding time.

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-S73B	
Lab Sample ID:	F27326-4	Date Sampled: 10/10/04
Matrix:	AQ - Ground Water	Date Received: 10/11/04
Project:	Quarterly Sampling, STAR Center, Largo, FL	
		Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	5.6 B	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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-S73D	
Lab Sample ID: F27326-5	Date Sampled: 10/10/04
Matrix: AQ - Ground Water	Date Received: 10/11/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.2 B	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

3.6
3

Client Sample ID: PIN12-S69B		Date Sampled: 10/10/04
Lab Sample ID: F27326-6		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.9 B	10	3.5	ug/l	1	10/19/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7292

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: PIN15-0537		Date Sampled: 10/11/04
Lab Sample ID: F27326-7		Date Received: 10/11/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	5.0	2.0	2.0	mg/l	1	10/17/04 08:00	KG	EPA 405.1
Chemical Oxygen Demand	112	20	2.8	mg/l	1	10/14/04	MCR	EPA 410.1
Chloride	37.7	2.0	1.0	mg/l	1	10/12/04 13:12	SJL	EPA 300/SW846 9056
Nitrogen, Ammonia	5.0	1.0	0.12	mg/l	5	10/21/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/12/04 13:12	SJL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/12/04 13:12	SJL	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	4.5	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.089 B	0.10	0.020	mg/l	1	10/12/04 15:00	KG	EPA 365.3
Phosphorus, Total	0.093 B	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfate	95.2	2.0	1.0	mg/l	1	10/12/04 13:12	SJL	EPA 300/SW846 9056
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	68.0	1.0	0.50	mg/l	1	10/12/04	LE	EPA 415.1

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES										
NAME: S.M. Stoller 7887 Bryan Dairy Rd Suite 260 ADDRESS: Largo FL 33777 CITY: Largo STATE: FL ZIP: 33777 SEND REPORT TO: _____ PHONE # _____		PROJECT NAME: STAR Center Quarterly Samp. LOCATION: Largo FL PROJECT NO.: 7030-226 FAX # _____				TOC 45.1 BOD 405.1 COD, TKN Ammonia, Total P NO ₃ , NO ₂ , NO _x Di-nitrophenolate Sr/Gde 376.1				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	HTC	INCH		INCH	INCH	INCH	INCH							
1	PIN12-0524	10-10-04	0810	DT	GW	7	3	2	2											
2	PIN12-0525	10-10-04	0925	DT	GW	1														
3	PIN12-0526	10-10-04	0950	DT	GW	7	3	2	2											
4	PIN12-S73B	10-10-04	1405	DT	GW	1														
5	PIN12-S73D	10-10-04	1400	DT	GW	1														
6	PIN12-S69B	10-10-04	1450	DT	GW	1														
7	PIN15-0537	10/11/04	0955	DT	GW	7	3	2	2											
<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"/> QJSK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				COMMENTS/REMARKS _____ _____														
RELINQUISHED BY SAMPLER: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ 1. <i>David Paul</i> 10-11-04 11:30 1. <i>De-Vict...</i> 10-11-04 11:30 RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ 3. _____ 3. _____ 2. <i>De-Vict...</i> 10-11-04 11:35 RELINQUISHED BY: _____ DATE TIME: _____ RECEIVED BY: _____ DATE TIME: _____ 5. _____ 5. _____ 4. _____ 4. _____												PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE 3.0 C								

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27326**
 Client: **S.M. Stalker** Project: **Star Center 141x**
 Date Received: **10/11/04** Time Received: **16:35**
 # of Coolers Received: **1** Cooler Temperatures: **3.0**
 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
 Trip Blank Matrix ? Soil Water
 Number of Encores ?
 Number of Soil Field Kits ?
 Summary of Comments:

Signature: *[Signature]* Date: **10/11/04**
 Review Signature: *[Signature]*

ASBD/HW 05/11/03



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27355

Sampling Dates: 10/11/04 - 10/12/04

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: F27355

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27355-1	10/12/04	09:50 JPC	10/12/04	AQ	Ground Water	PIN12-0523
F27355-2	10/11/04	13:45 JPC	10/12/04	AQ	Ground Water	PIN12-567C
F27355-3	10/12/04	08:10 JPC	10/12/04	AQ	Ground Water	PIN06-0500
F27355-4	10/12/04	08:45 JPC	10/12/04	AQ	Ground Water	PIN09-0500
F27355-5	10/12/04	09:10 JPC	10/12/04	AQ	Ground Water	PIN10-0500
F27355-6	10/12/04	09:30 JPC	10/12/04	AQ	Ground Water	PIN06-0501
F27355-7	10/12/04	11:05 JPC	10/12/04	AQ	Ground Water	PIN12-0510

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27355

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/26/2004

7 Samples ere collected on between 10/11/2004 and 10/12/2004 and were received at Accutest on 10/12/2004 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F27355.A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7298

Samples F27495-1DUP, F27495-1MS, F27495-1MSD, F27495-1SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ

Batch ID: GP6014

All method blanks for this batch meet method specific criteria.

Samples F27355-1DUP, F27355-1DUP, F27355-1MS were used as the QC samples for Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride.

Matrix Spike Recovery for Chloride is outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

GP6014-S1 for Sulfate: Over calibration curve. Data used as estimate only.

Wet Chemistry By Method EPA 350.2

Matrix: AQ

Batch ID: GP6008

Samples F27262-1DUP, F27262-1MS were used as the QC samples for Nitrogen, Ammonia, Nitrogen, Ammonia.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 351.3

Matrix: AQ

Batch ID: GP6009

Samples F27261-1DUP, F27261-1MS, F27261-1MSD were used as the QC samples for Nitrogen, Total Kjeldahl, Nitrogen, Total Kjeldahl.

All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GP5989

Samples F27355-1DUP, F27355-1MS were used as the QC samples for Phosphate, Ortho, Phosphate, Ortho.

All method blanks for this batch meet method specific criteria.

GP5989-S1 for Phosphate, Ortho: Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix: AQ

Batch ID: GP6012

All method blanks for this batch meet method specific criteria.

Samples F27250-2MS, F27250-2MSD, F27250-2DUP were used as the QC samples for Phosphorus, Total, Phosphorus, Total.

RPD for Duplicate for Phosphorus, Total are outside control limits for sample GP6012-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method EPA 376.1

Matrix: AQ

Batch ID: GN15845

Samples F27225-2DUP, F27225-2MS were used as the QC samples for Sulfide, Sulfide.
All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 405.1

Matrix: AQ

Batch ID: GP5993

Samples F27355-1DUP, F27355-1MS were used as the QC samples for BOD, 5 Day, BOD, 5 Day.
All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 410.1

Matrix: AQ

Batch ID: GP5988

Sample(s) F27371-1DUP, F27371-1MS were used as the QC samples for Chemical Oxygen Demand, Chemical Oxygen Demand.
All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery for Chemical Oxygen Demand is outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method EPA 415.1

Matrix: AQ

Batch ID: GN15830

All method blanks for this batch meet method specific criteria.

Samples F27337-1DUP, F27337-1MS, F27337-1MSD were used as the QC samples for Total Organic Carbon, Total Organic Carbon.

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: October 26, 2004

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

Report of Analysis

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3

Client Sample ID: PIN12-0523	
Lab Sample ID: F27355-1	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.0 U	2.0	2.0	mg/l	1	10/18/04 12:00	KG	EPA 405.1
Chemical Oxygen Demand	59.7	20	2.8	mg/l	1	10/14/04	MCR	EPA 410.1
Chloride	8.7	2.0	1.0	mg/l	1	10/13/04 20:22	SJL	EPA 300/SW846 9056
Nitrogen, Ammonia	1.1	0.20	0.024	mg/l	1	10/21/04	KG	EPA 350.2
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	10/13/04 20:22	SJL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/13/04 20:22	SJL	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	1.9	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.12	0.10	0.020	mg/l	1	10/13/04 12:00	MP	EPA 365.3
Phosphorus, Total	0.080 B	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfate	57.1	2.0	1.0	mg/l	1	10/13/04 20:22	SJL	EPA 300/SW846 9056
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	18.0	1.0	0.50	mg/l	1	10/13/04	LE	EPA 415.1

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: PIN12-567C		Date Sampled: 10/11/04
Lab Sample ID: F27355-2		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
BOD, 5 Day	2.7	2.0	2.0	mg/l	1	10/18/04 12:00	KG	EPA 405.1
Chemical Oxygen Demand	98.7	20	2.8	mg/l	1	10/14/04	MCR	EPA 410.1
Chloride	88.7	2.0	1.0	mg/l	1	10/13/04 20:37	SJL	EPA 300/SW846 9056
Nitrogen, Ammonia	0.75	0.20	0.024	mg/l	1	10/21/04	KG	EPA 350.2
Nitrogen, Nitrate	0.12	0.10	0.050	mg/l	1	10/13/04 20:37	SJL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	10/13/04 20:37	SJL	EPA 300/SW846 9056
Nitrogen, Total Kjeldahl	1.6	0.20	0.10	mg/l	1	10/21/04	KG	EPA 351.3
Phosphate, Ortho	0.087 B	0.10	0.020	mg/l	1	10/13/04 12:00	MP	EPA 365.3
Phosphorus, Total	0.11	0.10	0.0090	mg/l	1	10/22/04	MP	EPA 365.3
Sulfide	1.0 U	1.0	1.0	mg/l	1	10/14/04	MP	EPA 376.1
Total Organic Carbon	24.2	1.0	0.50	mg/l	1	10/13/04	LE	EPA 415.1

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: PIN06-0500		Date Sampled: 10/12/04
Lab Sample ID: F27355-3		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.2 B	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

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: PIN09-0500	Date Sampled: 10/12/04
Lab Sample ID: F27355-4	Date Received: 10/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	15.5	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

3.5
3

Client Sample ID: PIN10-0500		Date Sampled: 10/12/04
Lab Sample ID: F27355-5		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	7.9 B	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

3.6
3

Client Sample ID: PIN06-0501	
Lab Sample ID: F27355-6	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	11.8	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

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: PIN12-0510		Date Sampled: 10/12/04
Lab Sample ID: F27355-7		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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: Largo, FL 33777 SEND REPORT TO: Julian Caballero PHONE #: 727 844 541-8103		Star Center Quarterly Sampling PROJECT NAME: Largo FI LOCATION: 7030-226 PROJECT NO.: FAX #:				Arsonic TOC 415.1 BOD 405.1 COD TRN Total P Chlorine, Total P Cu, Fe, Pb, Ni, Mn Disinfection By-Products Sulfide 376.1										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	HCl	NH ₄ OH	HNO ₃	H ₂ SO ₄	None	None	None	None				
1	12-0523	10-12-04	0950															
2	12-567C	10-11-04	1345															
3	06-0500	10-12-04	0810															
4	09-0500		0845															
5	10-0500		0910															
6	06-0501		0930															
7	12-0510		1105															

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

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLE/CHANGE POSSESSION, INCLUDING COURIER DELIVERY							
RELINQUISHED BY: 1. <i>David Frank</i>	DATE TIME: 10-12-04, 1130	RECEIVED BY: 1. <i>J.P. Frank</i>	DATE TIME: 10/12/04 1420	RELINQUISHED BY: 2. <i>J.P. Frank</i>	DATE TIME: 10/12/04	RECEIVED BY: 2. <i>CZ</i>	DATE TIME: 10/12/04 16:55
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	DATE TIME:	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.	DATE TIME:
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	DATE TIME:	SEAL #	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>	TEMPERATURE: 2.9 C

4.1
4



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27357

Sampling Date: 10/12/04

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: F27357

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F27357-1	10/12/04	13:10	SDL	10/12/04	AQ Ground Water	PIN15-0567
F27357-2	10/12/04	00:00	SDL	10/12/04	AQ Ground Water	PIN15-0611
F27357-3	10/12/04	13:30	SDL	10/12/04	AQ Ground Water	PIN15-0618
F27357-4	10/12/04	14:05	SDL	10/12/04	AQ Ground Water	PIN15-0566

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27357

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/26/2004

4 Sample were collected on 10/12/2004 and were received at Accutest on 10/12/2004 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of F27357. 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 SW846 8260B

Matrix: AQ

Batch ID: VN61

All samples were analyzed within the recommended method holding time.

Samples F27357-3MS, F27357-3MSD 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. Probable cause due to matrix interference.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11590

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples F27444-6MS, F27444-6MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD recoveries for TPH (C8-C40) are outside control limits. Probable cause due to matrix interference.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7298

Samples F27495-1DUP, F27495-1MS, F27495-1MSD, F27495-1SDL 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: October 26, 2004

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

Report of Analysis

Client Sample ID: PIN15-0567	
Lab Sample ID: F27357-1	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001331.D	1	10/22/04	NJ	n/a	n/a	VN61
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	12.8	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	0.72	1.0	0.50	ug/l	J
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	68.0	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	15.4	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	1.8	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: PIN15-0567		Date Sampled: 10/12/04
Lab Sample ID: F27357-1		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	34.5	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	99%		86-115%
17060-07-0	1,2-Dichloroethane-D4	99%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	98%		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: PIN15-0567		Date Sampled: 10/12/04
Lab Sample ID: F27357-1		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43232.D	1	10/21/04	AA	10/18/04	OP11590	GOP1307
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.558	0.24	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	103%		50-125%		

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: PIN15-0567		Date Sampled: 10/12/04
Lab Sample ID: F27357-1		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

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: PIN15-0611	
Lab Sample ID: F27357-2	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001332.D	1	10/22/04	NJ	n/a	n/a	VN61
Run #2							

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

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12.9	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	0.77	1.0	0.50	ug/l	J
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	67.6	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	15.7	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	1.8	1.0	0.50	ug/l	

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

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

Report of Analysis

32
3

Client Sample ID: PIN15-0611		Date Sampled: 10/12/04
Lab Sample ID: F27357-2		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	36.6	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	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	100%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	98%		83-119%

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

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

Report of Analysis

32
3

Client Sample ID: PIN15-0611		Date Sampled: 10/12/04
Lab Sample ID: F27357-2		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43206.D	1	10/20/04	AA	10/18/04	OP11590	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.36	0.25	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	106%		50-125%		

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: PIN15-0611	Date Sampled: 10/12/04
Lab Sample ID: F27357-2	Date Received: 10/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	4.4 B	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

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: PIN15-0618	
Lab Sample ID: F27357-3	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001326.D	1	10/22/04	NJ	n/a	n/a	VN61
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: PIN15-0618		Date Sampled: 10/12/04
Lab Sample ID: F27357-3		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	100%		73-126%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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:	PIN15-0566	
Lab Sample ID:	F27357-4	Date Sampled: 10/12/04
Matrix:	AQ - Ground Water	Date Received: 10/12/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001333.D	1	10/22/04	NJ	n/a	n/a	VN61
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	1.5	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	4.7	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: PIN15-0566		Date Sampled: 10/12/04
Lab Sample ID: F27357-4		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	4.5	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	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	101%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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: PIN15-0566		Date Sampled: 10/12/04
Lab Sample ID: F27357-4		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43207.D	1	10/20/04	AA	10/18/04	OP11590	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.947	0.25	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	77%		50-125%		

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

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 #: **F27357**
ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES				
S M Stoller NAME: 7887 Bryon Dairy Rd Ste 260 ADDRESS: Largo FL 33777 CITY: Largo STATE: FL ZIP: 33777		PROJECT NAME: STAR Center Quarterly Samp LOCATION: Largo FL PROJECT NO.: 7030-226 FAX #:				VOCs 8260 TRPH FL PRO Arsenic				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID				
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			PRESERVATION							LAB USE ONLY		
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCI	INH	INH3	INH304	INH304		OTHER	
1	PIN15-0567	10/12/04	1310	SDL GW	6	3	1	2						
2	PIN15-0611	10/12/04		SDL GW	6	3	1	2						
3	PIN15-0618	10/12/04	1330	SDL GW	3									
4	PIN15-0566	10/12/04	1405	SDL GW	5	3		2						
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:			
1. <i>Gene W. Houde</i>	10/12/04 1420	1. <i>[Signature]</i>	2. <i>[Signature]</i>	10/12/04	2. <i>[Signature]</i>	3. <i>[Signature]</i>	10/12/04	4. <i>[Signature]</i>	4. <i>[Signature]</i>	10/12/04	5. <i>[Signature]</i>			
3.		3.	4.		4.	5.		5.						
		SEAL #		PRESERVE WHERE APPLICABLE		ON ICE		TEMPERATURE						
								018 C						

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27357**
 Client: **SM Staller** Project: **Star Center July**
 Date Received: **10/17/14** Time Received: **16:55**
 # of Coolers Received: **1** Cooler Temperatures: **0.8**
 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
 Trip Blank Matrix? Soil Water
 Number of Encores? N/A
 Number of Soil Field Kits? N/A
 Summary of Comments:

Signature: *[Signature]* Date: **10/17/14**
 Review Signature: _____
 ASBD/HW 05/11/03



12/27/04

Technical Report for

S M Stoller

Star Center-WWNA Quarterly; Largo, FL

7030-226

Accutest Job Number: F27358

Sampling Date: 10/12/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

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



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


Harry Behzadi, Ph.D.
Laboratory Director

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

S M Stoller

Job No: F27358

Star Center-WWNA Quarterly; Largo, FL
 Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27358-1	10/12/04	08:13 JPC	10/12/04	AQ	Ground Water	PIN18-0525
F27358-2	10/12/04	08:36 JPC	10/12/04	AQ	Ground Water	PIN18-0524
F27358-3	10/12/04	09:05 JPC	10/12/04	AQ	Ground Water	PIN18-0523
F27358-4	10/12/04	13:25 JPC	10/12/04	AQ	Ground Water	PIN18-0521
F27358-5	10/12/04	13:58 JPC	10/12/04	AQ	Ground Water	PIN18-0522

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27358

Site: Star Center-WWNA Quarterly; Largo, FL

Report Date 10/26/2004

5 Samples were collected on 10/12/2004 and were received at Accutest on 10/12/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F27358. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7298

Samples F27495-1DUP, F27495-1MS, F27495-1MSD, F27495-1SDL were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

Matrix: AQ

Batch ID: MP7299

Samples F27209-1MS, F27209-1MSD, F27209-1SDL, F27209-1DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Arsenic are outside control limits for sample MP7299-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

RPD for Duplicate for Arsenic are outside control limits for sample MP7299-D1. RPD acceptable due to low duplicate and sample concentrations.

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: October 26, 2004

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

Report of Analysis

Client Sample ID: PIN18-0525	Date Sampled: 10/12/04
Lab Sample ID: F27358-1	Date Received: 10/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Star Center-WWNA Quarterly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	53.7	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID: PIN18-0524	
Lab Sample ID: F27358-2	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
	Percent Solids: n/a
Project: Star Center-WWNA Quarterly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	11.8	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis



Client Sample ID: PIN18-0523	
Lab Sample ID: F27358-3	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
	Percent Solids: n/a
Project: Star Center-WWNA Quarterly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
 MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID:	PIN18-0521	
Lab Sample ID:	F27358-4	Date Sampled: 10/12/04
Matrix:	AQ - Ground Water	Date Received: 10/12/04
Project:	Star Center-WWNA Quarterly; Largo, FL	Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/20/04	10/21/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4044

(2) Prep QC Batch: MP7298

RL = Reporting Limit
 MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID: PIN18-0522	
Lab Sample ID: F27358-5	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
	Percent Solids: n/a
Project: Star Center-WWNA Quarterly; Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	8.2 B	10	3.5	ug/l	1	10/20/04	10/23/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4047

(2) Prep QC Batch: MP7299

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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

ACCUTEST JOB # **F27358**
ACCUTEST QUOTE #

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>Large</u> STATE: <u>FL</u> ZIP: <u>33777</u> SEND REPORT TO: _____ PHONE # _____		PROJECT NAME: <u>STAR Center - Quarterly samp.</u> PROJECT NO.: _____ LOCATION: <u>WVNA</u> LOCATION: <u>7030-226</u> PROJECT NO.: _____ FAX # _____				<u>Arsenic</u>										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	DATE	TIME	SAMPLED BY:	MATRIX											# OF BOTTLES	PRESERVATION				LAB USE ONLY
①	PIN18-0525	10-12-04	0813	JPC	GW	1															
②	PIN18-0524		0836																		
③	PIN18-0523		0905																		
④	PIN18-0521		1325																		
⑤	PIN18-0522		1358																		
<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:		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																			
1. <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RECEIVED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE TIME: <u>10-12-04/1420</u>
SEAL # _____		PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE <u>25</u> C																			

4.1
4

F27358: Chain of Custody

Page 1 of 2



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27359

Sampling Date: 10/12/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **22**



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: F27359

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27359-1	10/12/04	08:00 SDL	10/12/04	AQ	Ground Water	PIN15-0561
F27359-2	10/12/04	09:00 SDL	10/12/04	AQ	Ground Water	PIN15-0617
F27359-3	10/12/04	09:10 SDL	10/12/04	AQ	Ground Water	PIN15-0560
F27359-4	10/12/04	10:10 SDL	10/12/04	AQ	Ground Water	PIN15-0565
F27359-5	10/12/04	10:35 SDL	10/12/04	AQ	Ground Water	PIN15-0564
F27359-6	10/12/04	11:10 SDL	10/12/04	AQ	Ground Water	PIN15-0530

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27359

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/26/2004

6 Samples were collected on 10/12/2004 and were received at Accutest on 10/12/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F27359. 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 SW846 8260B

Matrix: AQ

Batch ID: VN61

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Samples F27357-3MS, F27357-3MSD were used as the QC samples indicated.

MS/MSD recoveries for 2-Chloroethyl vinyl ether are outside control limits. RPD for MS/MSD for 2-Chloroethyl vinyl ether is outside control limits. Probable cause due to matrix interference.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11590

All samples were analyzed within the recommended method holding time.

All samples were extracted within the recommended method holding time.

Samples F27444-6MS, F27444-6MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD recoveries for TPH (C8-C40) are outside control limits. Probable cause due to matrix interference.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7299

Samples F27209-1MS, F27209-1MSD, F27209-1SDL, F27209-1DUP were used as the QC samples for metals.

All method blanks for this batch meet method specific criteria.

RPD for Serial Dilution for Arsenic are outside control limits for sample MP7299-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

RPD for Duplicate for Arsenic are outside control limits for sample MP7299-D1. RPD acceptable due to low duplicate and sample concentrations.

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: October 26, 2004

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

Report of Analysis

Client Sample ID: PIN15-0561	
Lab Sample ID: F27359-1	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001334.D	1	10/22/04	NJ	n/a	n/a	VN61
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

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3

Client Sample ID: PIN15-0561		Date Sampled: 10/12/04
Lab Sample ID: F27359-1		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	101%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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: PIN15-0561		Date Sampled: 10/12/04
Lab Sample ID: F27359-1		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43208.D	1	10/20/04	AA	10/18/04	OP11590	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.424	0.25	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	97%		50-125%		

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:	PIN15-0617	
Lab Sample ID:	F27359-2	Date Sampled: 10/12/04
Matrix:	AQ - Ground Water	Date Received: 10/12/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001335.D	1	10/22/04	NJ	n/a	n/a	VN61
Run #2							

Run #1	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: PIN15-0617		Date Sampled: 10/12/04
Lab Sample ID: F27359-2		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		86-115%
17060-07-0	1,2-Dichloroethane-D4	102%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	100%		83-119%

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

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

Report of Analysis

Client Sample ID: PIN15-0560	
Lab Sample ID: F27359-3	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001336.D	1	10/22/04	NJ	n/a	n/a	VN61
Run #2							

Run #1	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:	PIN15-0560	
Lab Sample ID:	F27359-3	Date Sampled: 10/12/04
Matrix:	AQ - Ground Water	Date Received: 10/12/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly 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	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	103%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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: PIN15-0560		Date Sampled: 10/12/04
Lab Sample ID: F27359-3		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43209.D	1	10/20/04	AA	10/18/04	OP11590	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.513	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		50-125%		

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:	PIN15-0565	
Lab Sample ID:	F27359-4	Date Sampled: 10/12/04
Matrix:	AQ - Ground Water	Date Received: 10/12/04
Method:	SW846 8260B	Percent Solids: n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001337.D	1	10/22/04	NJ	n/a	n/a	VN61
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: PIN15-0565		Date Sampled: 10/12/04
Lab Sample ID: F27359-4		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	104%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	101%		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: PIN15-0565		Date Sampled: 10/12/04
Lab Sample ID: F27359-4		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43210.D	1	10/20/04	AA	10/18/04	OP11590	GOP1306
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.271	0.25	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	102%		50-125%		

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: PIN15-0564	
Lab Sample ID: F27359-5	Date Sampled: 10/12/04
Matrix: AQ - Ground Water	Date Received: 10/12/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0001338.D	1	10/22/04	NJ	n/a	n/a	VN61
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: PIN15-0564		Date Sampled: 10/12/04
Lab Sample ID: F27359-5		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	105%		73-126%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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

3.5
3

Client Sample ID: PIN15-0564		Date Sampled: 10/12/04
Lab Sample ID: F27359-5		Date Received: 10/12/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43233.D	1	10/21/04	AA	10/18/04	OP11590	GOP1307
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.415	0.25	0.17	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	109%		50-125%		

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: PIN15-0530	Date Sampled: 10/12/04
Lab Sample ID: F27359-6	Date Received: 10/12/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/20/04	10/23/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4047

(2) Prep QC Batch: MP7299

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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 Quarterly Sampling PROJECT NAME Largo FL LOCATION 7030-226 PROJECT NO. FAX #				VOCs 82603 TRPH FL PRO Arsenic										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION					LAB USE ONLY				
		DATE	TIME	SAMPLED BY:			PH	NOV	NOV	NOV	NOV		NOV			
①	PIN15-0561	10/12/04	0800	SDL	GW	5	3				2		3	2		
②	PIN15-0617	10/12/04	0900	SDL	GW	3	3						3			
③	PIN15-0560	10/12/04	0910	SDL	GW	5	3				2		3	2		
④	PIN15-0565	10/12/04	1010	SDL	GW	5	3				2		3	2		
⑤	PIN 15-0564	10/12/04	1035	SDL	GW	5	3				2		3	2		
⑥	PIN 15-0530	10/12/04	1110	SDL	GW	1					1			1		
<input checked="" type="checkbox"/> STANDARD APPROVED BY: _____ <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER		<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										
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																
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:		
1. <i>S.M. Stoller</i>	10-12-04 1130	1. <i>R. Val</i>	10/12/04 1142	2. <i>R. Val</i>	10/12/04 1155	3. <i>S.M. Stoller</i>		4. <i>S.M. Stoller</i>		5. <i>S.M. Stoller</i>		6. <i>S.M. Stoller</i>		7. <i>S.M. Stoller</i>		
3.		3.		4.		4.		5.		5.		6.		6.		
RELINQUISHED BY:	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:		
5.		5.		6.		6.		7.		7.		8.		8.		
SEAL #										PRESERVE WHERE APPLICABLE <input type="checkbox"/>		ON ICE <input type="checkbox"/>		TEMPERATURE 26 C		

4.1
4



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27400

Sampling Date: 10/13/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 9



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: F27400

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F27400-1	10/13/04	08:59 JPC	10/13/04	AQ	Ground Water	PIN18-0502
F27400-2	10/13/04	08:26 JPC	10/13/04	AQ	Ground Water	PIN18-0500

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27400

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/26/2004

2 Samples were collected on 10/13/2004 and were received at Accutest on 10/13/2004 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F27400. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7304

All method blanks for this batch meet method specific criteria.

Samples F27404-1DUP, F27404-1MS, F27404-1MSD, F27404-1SDL 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: October 26, 2004

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

Report of Analysis

3.1
3

Client Sample ID: PIN18-0502		Date Sampled: 10/13/04
Lab Sample ID: F27400-1		Date Received: 10/13/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	10	10	3.5	ug/l	1	10/21/04	10/23/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4047

(2) Prep QC Batch: MP7304

RL = Reporting Limit
MDL = Method Detection Limit

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

Report of Analysis

Client Sample ID: PIN18-0500	Date Sampled: 10/13/04
Lab Sample ID: F27400-2	Date Received: 10/13/04
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	63.4	10	3.5	ug/l	1	10/21/04	10/23/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4047

(2) Prep QC Batch: MP7304

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

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 Quarterly Sampling PROJECT NAME Largo FL LOCATION 7030 - 226 PROJECT NO. FAX #				Asenic										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		SAMPLED BY:												PRESERVATION						
		DATE	TIME			MATRIX	# OF BOTTLES	REF	NOCH	INCO	US304	MONIE										
1	PIN18-0502	10/13/04	0859	JPC	GW	1	1															
2	PIN18-0500	10/13/04	0826	JPC	GW	1	1															
	PIN20-14035	10/13/04	10																			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS																
<input 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 type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____																				
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:												
1. <i>Bruce W. Neate</i>		10/13/04 1205		1. <i>S.M. Stoller</i>		2. <i>S.M. Stoller</i>		10/13/04		15:20		2. <i>Mae C...</i>										
3.		DATE TIME:		RECEIVED BY:		4.		DATE TIME:		RECEIVED BY:												
5.		DATE TIME:		RECEIVED BY:		SEAL #		PRESERVE WHERE APPLICABLE		ON ICE		TEMPERATURE										
										<input type="checkbox"/>		20 24 C										

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: **F27400**

Client: SM Stoller Project: STAR Center

Date Received: 10/13/04 Time Received: 18:20

of Coolers Received: 2 Cooler Temperatures: 20 24

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 IDs? 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

Trip Blank Matrix? Yes No

Number of Encores? Yes No

Number of Soil Field Kits? Yes No

Summary of Comments: _____

Signature: _____

Review Signature: _____

Date: 10/13/04



12/27/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

7030-226

Accutest Job Number: F27432

Sampling Date: 10/14/04

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **11**



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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1

2

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Sample Summary

S M Stoller

Job No: F27432

Quarterly Sampling, STAR Center, Largo, FL
Project No: 7030-226

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F27432-1	10/14/04	07:40 JPC	10/14/04	AQ	Ground Water	PIN15-0616

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: S M Stoller

Job No: F27432

Site: Quarterly Sampling, STAR Center, Largo, FL

Report Date 10/29/2004

1 Sample was collected on 10/14/2004 and were received at Accutest on 10/14/2004 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F27432. 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 SW846 8260B

Matrix: AQ

Batch ID: VC1159

All samples were analyzed within the recommended method holding time.

Samples F27485-2MS, F27485-2MSD 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. Probable cause due to matrix interference.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ

Batch ID: OP11602

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 F27444-14MS, F27444-14MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix: AQ

Batch ID: MP7309

Samples F27554-1DUP, F27554-1MS, F27554-1MSD, F27554-1SDL 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:

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

Date: October 29, 2004

Report of Analysis

Client Sample ID: PIN15-0616	
Lab Sample ID: F27432-1	Date Sampled: 10/14/04
Matrix: AQ - Ground Water	Date Received: 10/14/04
Method: SW846 8260B	Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0027345.D	1	10/27/04	KW	n/a	n/a	VC1159
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	1.2	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

3.1
3

Client Sample ID: PIN15-0616		Date Sampled: 10/14/04
Lab Sample ID: F27432-1		Date Received: 10/14/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: Quarterly 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	102%		73-126%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		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: PIN15-0616		Date Sampled: 10/14/04
Lab Sample ID: F27432-1		Date Received: 10/14/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: FLORIDA-PRO SW846 3510C		
Project: Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP43250.D	1	10/21/04	AA	10/20/04	OP11602	GOP1307
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.24	0.16	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	101%		50-125%		

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: PIN15-0616		Date Sampled: 10/14/04
Lab Sample ID: F27432-1		Date Received: 10/14/04
Matrix: AQ - Ground Water		Percent Solids: n/a
Project: Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	10/22/04	10/23/04 SM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA4047

(2) Prep QC Batch: MP7309

RL = Reporting Limit
MDL = Method Detection Limit

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION				MATRIX CODES		
NAME: S M Soller ADDRESS: 7887 Bryan Dairy Rd St 260 CITY: Largo STATE: FL ZIP: 33777		PROJECT NAME: STAR Center Quarterly Sampling PROJECT NO.: LOCATION: Largo FL 7030 - 226 PROJECT NO.: FAX #				VOCs Arsenic TRPH FL PRO				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	INCH				INCH	INCH
(1) PINIS-0616		10/14/04	0740	JRC	GW	6	3	12	3	1	2	
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER		<input 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						
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED												
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY												
1. RELINQUISHED BY: [Signature] 2. RELINQUISHED BY: 3. RELINQUISHED BY: 4. RELINQUISHED BY: 5. RELINQUISHED BY:	DATE TIME: 10-14-04 12:30 DATE TIME: DATE TIME: DATE TIME:	RECEIVED BY: [Signature] RECEIVED BY: RECEIVED BY: RECEIVED BY:	DATE TIME: 10/14/04 13:55 DATE TIME: DATE TIME: DATE TIME:	1. RELINQUISHED BY: [Signature] 2. RELINQUISHED BY: 3. RELINQUISHED BY: 4. RELINQUISHED BY:	DATE TIME: 12:40 DATE TIME: DATE TIME: DATE TIME:	RECEIVED BY: [Signature] RECEIVED BY: RECEIVED BY: RECEIVED BY:	SEAL # PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE <input type="checkbox"/> C					

4.1
4

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F27432

Accutest's Job Number: _____

Client: S.W. Staffer

Project: State Center Quarterly Study

Date Received: 10-14-04

Time Received: 17:40

of Coolers Received: 1

Cooler Temperatures: 26

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 ?

Yes No

Number of Soil Field Kits ?

Yes No

Summary of Comments: _____

Signature: [Signature]

Date: 10-14-04

ASBD/HW 05/1/03