



09/08/08

Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T23525

Sampling Date: 08/20/08

Report to:

Cordilleran Compliance Services

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ATTN: Brad Stephenson

Total number of pages in report: **56**



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.

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Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
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Sample Summary

Cordilleran Compliance Services
Spindle Gas Plant

Job No: T23525

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T23525-1	08/20/08	10:15 BS	08/21/08	AQ	Ground Water	MW6
T23525-2	08/20/08	10:30 BS	08/21/08	AQ	Ground Water	MW7
T23525-3	08/20/08	09:45 BS	08/21/08	AQ	Ground Water	MW8
T23525-4	08/20/08	10:00 BS	08/21/08	AQ	Ground Water	MW9
T23525-5	08/20/08	10:45 BS	08/21/08	AQ	Ground Water	MW10
T23525-6	08/20/08	09:30 BS	08/21/08	AQ	Ground Water	MW39
T23525-7	08/20/08	09:55 BS	08/21/08	AQ	Ground Water	MW5
T23525-8	08/20/08	15:00 BS	08/21/08	AQ	Ground Water	MW18
T23525-9	08/20/08	13:00 BS	08/21/08	AQ	Ground Water	MW44
T23525-10	08/20/08	13:30 BS	08/21/08	AQ	Ground Water	MW32
T23525-11	08/20/08	09:25 BS	08/21/08	AQ	Ground Water	P1A
T23525-12	08/20/08	09:10 BS	08/21/08	AQ	Ground Water	P1B
T23525-13	08/20/08	09:40 BS	08/21/08	AQ	Ground Water	P2B



Sample Summary
(continued)

Cordilleran Compliance Services
Spindle Gas Plant

Job No: T23525

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T23525-14	08/20/08	10:30 BS	08/21/08	AQ	Ground Water	P3A
T23525-15	08/20/08	10:20 BS	08/21/08	AQ	Ground Water	P3B
T23525-16	08/20/08	11:05 BS	08/21/08	AQ	Ground Water	P4A
T23525-17	08/20/08	10:45 BS	08/21/08	AQ	Ground Water	P4B
T23525-18	08/20/08	13:15 BS	08/21/08	AQ	Ground Water	MW35
T23525-19	08/20/08	13:15 BS	08/21/08	AQ	Ground Water	MW35D
T23525-20	08/20/08	13:40 BS	08/21/08	AQ	Ground Water	MW38
T23525-21	08/20/08	14:45 BS	08/21/08	AQ	Ground Water	MW27
T23525-22	08/20/08	14:35 BS	08/21/08	AQ	Ground Water	MW29
T23525-23	08/20/08	14:20 BS	08/21/08	AQ	Ground Water	MW30
T23525-24	08/20/08	14:00 BS	08/21/08	AQ	Ground Water	MW31
T23525-26	08/20/08	14:10 BS	08/21/08	AQ	Ground Water	MW-37



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW6	Date Sampled:	08/20/08
Lab Sample ID:	T23525-1	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038524.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW7	Date Sampled:	08/20/08
Lab Sample ID:	T23525-2	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038525.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW8	Date Sampled:	08/20/08
Lab Sample ID:	T23525-3	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038526.D	1	08/26/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW9		
Lab Sample ID:	T23525-4	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038527.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-120%
98-08-8	aaa-Trifluorotoluene	96%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW10						
Lab Sample ID:	T23525-5					Date Sampled:	08/20/08
Matrix:	AQ - Ground Water					Date Received:	08/21/08
Method:	SW846 8021B					Percent Solids:	n/a
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038550.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW39	Date Sampled:	08/20/08
Lab Sample ID:	T23525-6	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038551.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW5	
Lab Sample ID:	T23525-7	Date Sampled: 08/20/08
Matrix:	AQ - Ground Water	Date Received: 08/21/08
Method:	SW846 8021B	Percent Solids: n/a
Project:	Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038598.D	1	08/28/08	AFL	n/a	n/a	F:GQQ1459
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.9	1.0	0.50	ug/l	
108-88-3	Toluene	1.5	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	83.8	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	79.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		70-120%
98-08-8	aaa-Trifluorotoluene	112%		73-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Confirmed by GC/MS.
Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW18	Date Sampled:	08/20/08
Lab Sample ID:	T23525-8	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038555.D	10	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	730	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
100-41-4	Ethylbenzene	189	10	5.0	ug/l	
1330-20-7	Xylenes (total)	935	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	106%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW44		
Lab Sample ID:	T23525-9	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038547.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2 ^b	QQ038528.D	1	08/27/08	AFL	n/a	n/a	F:GQQ1456

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.2	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	94%	73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

(b) Confirmation run. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW32	
Lab Sample ID:	T23525-10	Date Sampled: 08/20/08
Matrix:	AQ - Ground Water	Date Received: 08/21/08
Method:	SW846 8021B	Percent Solids: n/a
Project:	Spindle Gas Plant	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038553.D	5	08/27/08	AFL	n/a	n/a	F:GQQ1457
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	144	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
100-41-4	Ethylbenzene	75.4	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	668	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	119%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by dual column analysis. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P1A	Date Sampled:	08/20/08
Lab Sample ID:	T23525-11	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086713.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	103%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P1B		
Lab Sample ID:	T23525-12	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086714.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene ^b	ND	2.0	2.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-120%
98-08-8	aaa-Trifluorotoluene	106%		73-118%

(a) Sample was not preserved to a pH < 2. Confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

(b) Elevated reporting limits due to matrix interference.

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:	P2B						
Lab Sample ID:	T23525-13				Date Sampled:	08/20/08	
Matrix:	AQ - Ground Water				Date Received:	08/21/08	
Method:	SW846 8021B				Percent Solids:	n/a	
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086715.D	1	08/26/08	AFL	n/a	n/a	F:GEF4952
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P3A	Date Sampled:	08/20/08
Lab Sample ID:	T23525-14	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086722.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-120%
98-08-8	aaa-Trifluorotoluene	103%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P3B						
Lab Sample ID:	T23525-15				Date Sampled:	08/20/08	
Matrix:	AQ - Ground Water				Date Received:	08/21/08	
Method:	SW846 8021B				Percent Solids:	n/a	
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086723.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P4A						
Lab Sample ID:	T23525-16			Date Sampled:	08/20/08		
Matrix:	AQ - Ground Water			Date Received:	08/21/08		
Method:	SW846 8021B			Percent Solids:	n/a		
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086724.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	P4B	Date Sampled:	08/20/08
Lab Sample ID:	T23525-17	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086725.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-120%
98-08-8	aaa-Trifluorotoluene	102%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW35		
Lab Sample ID:	T23525-18	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086726.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	104%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW35D						
Lab Sample ID:	T23525-19				Date Sampled:	08/20/08	
Matrix:	AQ - Ground Water				Date Received:	08/21/08	
Method:	SW846 8021B				Percent Solids:	n/a	
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086729.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		70-120%
98-08-8	aaa-Trifluorotoluene	105%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW38		
Lab Sample ID:	T23525-20	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086730.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		70-120%
98-08-8	aaa-Trifluorotoluene	101%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW27		
Lab Sample ID:	T23525-21	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086731.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		70-120%
98-08-8	aaa-Trifluorotoluene	97%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW29	Date Sampled:	08/20/08
Lab Sample ID:	T23525-22	Date Received:	08/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086732.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW30		
Lab Sample ID:	T23525-23	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086733.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-120%
98-08-8	aaa-Trifluorotoluene	99%		73-118%

(a) Sample was not preserved to a pH < 2. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW31		
Lab Sample ID:	T23525-24	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	EF086734.D	1	08/27/08	AFL	n/a	n/a	F:GEF4953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	19.3	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.0	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	7.9	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2. All hits confirmed by GC/MS. Analysis performed at Accutest Laboratories, Orlando, FL.

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:	MW-37		
Lab Sample ID:	T23525-26	Date Sampled:	08/20/08
Matrix:	AQ - Ground Water	Date Received:	08/21/08
Method:	SW846 8021B	Percent Solids:	n/a
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QQ038688.D	1	09/02/08	AFL	n/a	n/a	F:GQQ1463
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		70-120%
98-08-8	aaa-Trifluorotoluene	98%		73-118%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values. Analysis performed at Accutest Laboratories, Orlando, FL.

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

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # T 23525

Client / Reporting Information			Project Information			Requested Analysis										Matrix Codes
Company Name CORDILLERAN			Project Name SPINDLE													DW - Drinking Water
Address 5550 MARSHALL ST			Street													GW - Ground Water
City ARVADA State CO Zip 80002			City													WW - Water
Project Begins BRAD STEPHENSON@CORDCOMP.COM			Project #													SW - Surface Water
Phone # 303 941 6156			Fax #													SO - Soil
Sampler's Name BRAD STEPHENSON			Client Purchase Order #													SL - Sludge
																OI - Oil
																LQ - Other Liquid
																AIR - Air
																SOL - Other Solid
																WP - Wipe
																LAB USE ONLY

Accutest Sample #	Field ID / Point of Collection	SUMMA #	Collection				Number of preserved Bottles												
			MEOH Vol #	Date	Time	Sampled By	Matrix	# of bottles	N2	NH4	NH3	NH2O4	NO3	NO2	NO	NO	NO	NO	
1	MW6			8/20/08	1015	RS	W	3											
2	MW7				1030			3											
3	MW8				0945			3											
4	MW9				1000			3											
5	MW10				1045			3											
6	MW39				0930			3											
7	MW5				0955			3											
8	MW18				1500			3											
9	MW44				1300			3											
10	MW32				1330			3											

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> TRRP13 Commercial "A" = Results Only		<input type="checkbox"/> EDD Format _____	

Emergency & Flash T/A data available VIA LabLink					
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Received by TO FEDEX Date Time 8/20/08 1600		Received by Date Time		Received by Date Time	
Relinquished by Date Time		Relinquished by Date Time		Relinquished by Date Time	
Relinquished by Date Time		Relinquished by Date Time		Relinquished by Date Time	
Relinquished by Date Time		Relinquished by Date Time		Relinquished by Date Time	

3.13

CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accufest.com

6	FED-EX Tracking #	Bottle Order Control #
	Accutest Quote #	Accutest Job #

[illegible]

09:10

T23525: Chain of Custody

Page 3 of 6



SAMPLE VERIFICATION

Accutest Job Number: T23525 Client: Cordillan Project: Spindle
Date/Time Received: 8-21-08 @ 9:10 AM # of Coolers Received: 1
Cooler Temps: #1: 2.9 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____
Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
Airbill Numbers: 8058 9990 3554

COOLER INFORMATION

<input type="checkbox"/>	Custody seal missing or not intact
<input type="checkbox"/>	Chain of Custody not received
<input type="checkbox"/>	Temperature criteria not met
<input type="checkbox"/>	Wet ice received in cooler

CHAIN OF CUSTODY

<input type="checkbox"/>	Sample D/T unclear or missing
<input type="checkbox"/>	Analyses unclear or missing
<input type="checkbox"/>	COC not properly executed

SAMPLE INFORMATION

<input type="checkbox"/>	Sample containers rvd broken
<input type="checkbox"/>	VOC vials have headspace
<input type="checkbox"/>	Sample labels missing or illegible
<input type="checkbox"/>	ID on COC does not match label(s)
<input type="checkbox"/>	D/T on COC does not match label(s)
<input type="checkbox"/>	Bottles rvd but no analysis on COC
<input type="checkbox"/>	Bottles missing for requested analysis
<input type="checkbox"/>	Insufficient volume for analysis
<input type="checkbox"/>	Sample rvd improperly preserved

TRIP BLANK INFORMATION

<input type="checkbox"/>	Trip Blank on COC but not received
<input type="checkbox"/>	Trip Blank received but not on COC
<input type="checkbox"/>	Trip Blank not intact
<input type="checkbox"/>	Received Water Trip Blank
<input type="checkbox"/>	Received Soil TB

Number of Encores?	_____
Number of 5035 kits?	_____
Number of lab-filtered metals?	_____

Summary of Discrepancies: Client sent a sample "MW-37"
that was not indicated on the COC.

TECHNICIAN SIGNATURE/DATE: Summertime 8-21-08 VERIFIED BY: PA

• • • • • **CORRECTIVE ACTIONS** • • • • •

Client Representative Notified: _____

By Accutest Representative: John N. Date: 8-22-08

Via: Phone Email _____

Client Instructions: mentioned to Brad about MW-27 extra
ex. Proceed w/ analysis, and make it ex # 26

SAMPLE RECEIPT LOG

JOB #: T23525 DATE/TIME RECEIVED: 8.21.08 @ 9:10 AM
 CLIENT: WYDILKREAN INITIALS: SAK

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW-6	8-20-08	W	40ml	1-3	VR1F	1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	2	MW-7				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	3	MW 8				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	4	MW 9				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	5	MW 10				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	6	MW 39				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	7	MW 5				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	8	MW 18				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	9	MW 44				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	10	MW 32				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	11	P1				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	12	P1				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	13	P2				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	14	P3						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	15	P3						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	16	P4						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	17	P4						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	18	MW 35						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	19	MW 35D						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	20	MW 38						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	21	MW 37						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	22	MW 39						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	23	MW 30						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	24	MW 31						1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	25	TRIP Blank N/A				1-2		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA
1	26	MW 37				1-3		1,2,3,4,5,6 U, <2, >12 NA	U, <2, >12 NA

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other
 LOCATION: 1: Walk-in #1 (Waters) 2: Walk-in #2 (Solis) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

SM 012 Rev.1.7/2/2008

FedEx **PRIORITY OVERNIGHT** **THE**
Form 421280 02-01-21 AUG 08 Date of Rec
ID# 8658 9996 3554 15001 IAH 21 AUG 08
77036 15001 **XH JGQA**



2.9



GC Volatiles

QC Data Summaries

(Accutest Laboratories Southeast, Inc.)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4952-MB	EF086689.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	100% 70-120%
98-08-8	aaa-Trifluorotoluene	98% 73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1456-MB	QQ038523.D	1	08/26/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.1	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 70-120%
98-08-8	aaa-Trifluorotoluene	96% 73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4953-MB	EF086718.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	98% 70-120%
98-08-8	aaa-Trifluorotoluene	96% 73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1457-MB	QQ038541.D	1	08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 70-120%
98-08-8	aaa-Trifluorotoluene	97% 73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1459-MB	QQ038597.D	1	08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	97% 70-120%
98-08-8	aaa-Trifluorotoluene	99% 73-118%

Method Blank Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1463-MB	QQ038687.D	1	09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-26

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 70-120%
98-08-8	aaa-Trifluorotoluene	97% 73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4952-BS	EF086688.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.0	100	80-120
100-41-4	Ethylbenzene	20	19.6	98	79-121
108-88-3	Toluene	20	20.1	101	79-121
1330-20-7	Xylenes (total)	60	59.3	99	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	106%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1456-BS	QQ038522.D	1	08/26/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.6	98	80-120
100-41-4	Ethylbenzene	20	19.9	100	79-121
108-88-3	Toluene	20	19.6	98	79-121
1330-20-7	Xylenes (total)	60	60.1	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	97%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GEF4953-BS	EF086717.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.5	103	80-120
100-41-4	Ethylbenzene	20	19.7	99	79-121
108-88-3	Toluene	20	20.3	102	79-121
1330-20-7	Xylenes (total)	60	59.7	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	70-120%
98-08-8	aaa-Trifluorotoluene	102%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1457-BS	QQ038540.D	1	08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.6	108	80-120
100-41-4	Ethylbenzene	20	20.8	104	79-121
108-88-3	Toluene	20	19.8	99	79-121
1330-20-7	Xylenes (total)	60	62.0	103	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1459-BS	QQ038596.D	1	08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.1	106	80-120
100-41-4	Ethylbenzene	20	20.3	102	79-121
108-88-3	Toluene	20	19.3	97	79-121
1330-20-7	Xylenes (total)	60	60.3	101	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	70-120%
98-08-8	aaa-Trifluorotoluene	99%	73-118%

Blank Spike Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ1463-BS	QQ038686.D	1	09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.7	104	80-120
100-41-4	Ethylbenzene	20	20.1	101	79-121
108-88-3	Toluene	20	19.2	96	79-121
1330-20-7	Xylenes (total)	60	59.8	100	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	102%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59504-3MS	EF086696.D	1	08/26/08	CW	n/a	n/a	GEF4952
F59504-3MSD	EF086697.D	1	08/26/08	CW	n/a	n/a	GEF4952
F59504-3	EF086695.D	1	08/26/08	CW	n/a	n/a	GEF4952

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-11, T23525-12, T23525-13

CAS No.	Compound	F59504-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	20.2	101	20.1	101	0	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	19.8	99	19.7	99	1	79-121/9
108-88-3	Toluene	1.0 U	20	20.2	101	20.3	102	0	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	60.0	100	59.5	99	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59504-3	Limits
460-00-4	4-Bromofluorobenzene	105%	109%	107%	70-120%
98-08-8	aaa-Trifluorotoluene	101%	106%	104%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59504-14MS	EF086720.D	1	08/27/08	CW	n/a	n/a	GEF4953
F59504-14MSD	EF086721.D	1	08/27/08	CW	n/a	n/a	GEF4953
F59504-14	EF086719.D	1	08/26/08	CW	n/a	n/a	GEF4953

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-14, T23525-15, T23525-16, T23525-17, T23525-18, T23525-19, T23525-20, T23525-21, T23525-22, T23525-23, T23525-24

CAS No.	Compound	F59504-14 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	19.7	99	19.6	98	1	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	19.1	96	19.0	95	1	79-121/9
108-88-3	Toluene	1.0 U	20	19.7	99	19.6	98	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	57.8	96	57.5	96	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59504-14	Limits
460-00-4	4-Bromofluorobenzene	107%	105%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	103%	101%	98%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	T23525-9MS	QQ038529.D	1	08/27/08	TD	n/a	n/a	GQQ1456
(a)	T23525-9MSD	QQ038530.D	1	08/27/08	TD	n/a	n/a	GQQ1456
	T23525-9 ^b	QQ038528.D	1	08/27/08	TD	n/a	n/a	GQQ1456

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-1, T23525-2, T23525-3, T23525-4

CAS No.	Compound	T23525-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.7	94	18.4	92	2	80-120/10
100-41-4	Ethylbenzene	ND		20	18.2	91	18.0	90	1	79-121/9
108-88-3	Toluene	ND		20	18.4	92	18.2	91	1	79-121/10
1330-20-7	Xylenes (total)	1.2	J	60	55.1	90	54.6	89	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	T23525-9	Limits
460-00-4	4-Bromofluorobenzene	101%	98%	99%	70-120%
98-08-8	aaa-Trifluorotoluene	96%	94%	94%	73-118%

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.
(b) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59604-2MS	QQ038568.D	1	08/27/08	TD	n/a	n/a	GQQ1457
F59604-2MSD	QQ038569.D	1	08/28/08	TD	n/a	n/a	GQQ1457
F59604-2	QQ038567.D	1	08/27/08	TD	n/a	n/a	GQQ1457

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-5, T23525-6, T23525-8, T23525-9, T23525-10

CAS No.	Compound	F59604-2 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	21.9	110	21.9	110	0	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	21.2	106	21.1	106	0	79-121/9
108-88-3	Toluene	1.0 U	20	20.2	101	20.0	100	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	63.2	105	62.5	104	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59604-2	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	97%	70-120%
98-08-8	aaa-Trifluorotoluene	100%	101%	98%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23538-7MS	QQ038622.D	1	08/28/08	TD	n/a	n/a	GQQ1459
T23538-7MSD	QQ038623.D	1	08/28/08	TD	n/a	n/a	GQQ1459
T23538-7	QQ038621.D	1	08/28/08	TD	n/a	n/a	GQQ1459

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-7

CAS No.	Compound	T23538-7 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	20.6	103	20.7	104	0	80-120/10
100-41-4	Ethylbenzene	ND	20	19.7	99	19.9	100	1	79-121/9
108-88-3	Toluene	ND	20	18.8	94	18.9	95	1	79-121/10
1330-20-7	Xylenes (total)	ND	60	58.5	98	58.9	98	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	T23538-7	Limits
460-00-4	4-Bromofluorobenzene	95%	97%	90%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	100%	97%	73-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23525
Account: ALGC Accutest Laboratories Gulf Coast, Inc.
Project: CCSARCO: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F59732-4MS	QQ038699.D	1	09/02/08	TD	n/a	n/a	GQQ1463
F59732-4MSD	QQ038700.D	1	09/02/08	TD	n/a	n/a	GQQ1463
F59732-4 ^a	QQ038698.D	1	09/02/08	TD	n/a	n/a	GQQ1463

The QC reported here applies to the following samples: Method: SW846 8021B

T23525-26

CAS No.	Compound	F59732-4 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	22.2	111	22.0	110	1	80-120/10
100-41-4	Ethylbenzene	1.0 U	20	21.1	106	21.0	105	0	79-121/9
108-88-3	Toluene	1.0 U	20	20.0	100	19.8	99	1	79-121/10
1330-20-7	Xylenes (total)	3.0 U	60	63.9	107	63.0	105	1	80-119/8

CAS No.	Surrogate Recoveries	MS	MSD	F59732-4	Limits
460-00-4	4-Bromofluorobenzene	100%	103%	98%	70-120%
98-08-8	aaa-Trifluorotoluene	98%	100%	98%	73-118%

(a) All hits confirmed by dual column analysis.



IT'S ALL IN THE CHEMISTRY

11/20/08

Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

04032-2 PO# DCP

Accutest Job Number: T24667

Sampling Date: 11/12/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

Total number of pages in report: **30**



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.

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services

Job No: T24667

Spindle Gas Plant

Project No: 04032-2 PO# DCP

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T24667-1	11/12/08	11:10 JM	11/13/08	AQ	Ground Water	P4B
T24667-2	11/12/08	11:30 JM	11/13/08	AQ	Ground Water	P4A
T24667-3	11/12/08	11:50 JM	11/13/08	AQ	Ground Water	P3B
T24667-4	11/12/08	12:10 JM	11/13/08	AQ	Ground Water	P3A
T24667-5	11/12/08	12:30 JM	11/13/08	AQ	Ground Water	P2B
T24667-6	11/12/08	12:50 JM	11/13/08	AQ	Ground Water	MW-5
T24667-7	11/12/08	13:10 JM	11/13/08	AQ	Ground Water	P1B
T24667-8	11/12/08	13:30 JM	11/13/08	AQ	Ground Water	P1A
T24667-9	11/12/08	13:45 JM	11/13/08	AQ	Ground Water	MW-39
T24667-10	11/12/08	14:05 JM	11/13/08	AQ	Ground Water	MW-8
T24667-11	11/12/08	14:25 JM	11/13/08	AQ	Ground Water	MW-9
T24667-12	11/12/08	14:45 JM	11/13/08	AQ	Ground Water	MW-10



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P4B						
Lab Sample ID:	T24667-1				Date Sampled:	11/12/08	
Matrix:	AQ - Ground Water				Date Received:	11/13/08	
Method:	SW846 8021B				Percent Solids:	n/a	
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027926.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.3	1.0	0.21	ug/l	
108-88-3	Toluene ^a	5.9	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	6.1	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	7.9	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	121%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	P4A	Date Sampled:	11/12/08
Lab Sample ID:	T24667-2	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027927.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.2	1.0	0.21	ug/l	
108-88-3	Toluene ^a	5.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene ^a	1.8	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	7.0	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	125%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	P3B	Date Sampled:	11/12/08
Lab Sample ID:	T24667-3	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027928.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	97%		73-139%

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:	P3A	Date Sampled:	11/12/08
Lab Sample ID:	T24667-4	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027933.D	1	11/17/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

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:	P2B	Date Sampled:	11/12/08
Lab Sample ID:	T24667-5	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027934.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.0	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	5.5	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

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:	MW-5	Date Sampled:	11/12/08
Lab Sample ID:	T24667-6	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027998.D	5	11/19/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	24.3	5.0	1.0	ug/l	
108-88-3	Toluene ^a	66.9	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	164	5.0	1.7	ug/l	
1330-20-7	Xylenes (total)	206	10	2.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	108%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	P1B	Date Sampled:	11/12/08
Lab Sample ID:	T24667-7	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027935.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	2.8	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	3.4	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	138%		73-139%

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:	P1A	Date Sampled:	11/12/08
Lab Sample ID:	T24667-8	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027936.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	0.29	1.0	0.23	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

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:	MW-39	Date Sampled:	11/12/08
Lab Sample ID:	T24667-9	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027947.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

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:	MW-8	Date Sampled:	11/12/08
Lab Sample ID:	T24667-10	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027937.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		58-125%
98-08-8	aaa-Trifluorotoluene	102%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-9	Date Sampled:	11/12/08
Lab Sample ID:	T24667-11	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027946.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	98%		73-139%

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:	MW-10	Date Sampled:	11/12/08
Lab Sample ID:	T24667-12	Date Received:	11/13/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027948.D	1	11/18/08	FI	n/a	n/a	GKK1380
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

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

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # 8670 4797 8219

Bottle Order Control #

Accutest Quote #

Accutest Job #	
----------------	--

st Job #
T24667

Client / Reporting Information		Project Information		Requested Analysis		Matrix Codes										
Company Name Cordilleran Compliance Services		Project Name Spindle				DW - Drinking Water										
Address 4690 Table Mountain Dr Ste 200		Street				GW - Ground Water										
City Golden State CO Zip 80403		City State				WW - Water										
Project Contact Brad Stephenson bradstephenson@cordcomps.com E-mail		Project # 04032-2				SW - Surface Water										
Phone # (303) 941-6156		Fax #				SO - Soil										
Sampler's Name Jason Marlin		Client Purchase Order # DCP				SL - Sludge										
Accutest Sample #	Field ID / Point of Collection	SUMMA # MECH Vis #	Collection			Number of preserved Bottles								LAB USE ONLY		
			Date	Time	Sampled By	Matrix	# of bottles	SI	MW	RN03	PIC04	NONE	NUTR04		ME08	BI006
1	P4B		11/12/08	1110	JM	GW	3								X	
2	P4A		11/12/08	1130	JM	GW	3								X	
3	P3B		11/12/08	1150	JM	GW	3								X	
4	P3A		11/12/08	1210	JM	GW	3								X	
5	P2B		11/12/08	1230	JM	GW	3								X	
6	MW-5		11/12/08	1250	JM	GW	3								X	
7	P1B		11/12/08	1310	JM	GW	3								X	
8	P1A		11/12/08	1330	JM	GW	3								X	
9	MW-39		11/12/08	1345	JM	GW	3								X	
10	MW-8		11/12/08	1405	JM	GW	3								X	
Turnaround Time (Business Days)			Data Deliverable Information										Comments / Remarks			
<input checked="" type="checkbox"/> 10 Day STANDARD <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other _____			Approved By: / Date: _____ _____ _____ _____ _____			<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Tier 1 <input type="checkbox"/> TRRP-13 Commercial "A" = Results Only			<input type="checkbox"/> EDD Format _____			_____ _____ _____ _____ _____				
Emergency & Rush T/A data available VIA LabLink																
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Sampler 1 Jason Marlin		Date Time: 11/12/08 1645		Received by: 1 FEDEX		Relinquished by 2		Date Time:		Received by: 2						
Relinquished by 3		Date Time:		Received by: 3		Relinquished by 4		Date Time:		Received by: 4						
Relinquished by 5		Date Time: 11-12-08		Received by: 5 [Signature]		Custody Seal #		Preserved where applicable <input type="checkbox"/>		On Ice <input type="checkbox"/>		Cooler Temp. []				

T24667: Chain of Custody

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SAMPLE INSPECTION FORM

Accutest Job Number: T24667 Client: CORDILLERA COMPLIANCE Project: SPINDLE
 Date/Time Received: 11.13.08 0900 # of Coolers Received: 1 Thermometer # 110
 Cooler Temps: #1: 1.1 #2: #3: #4: #5: #6: #7: #8:
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 867047978219

COOLER INFORMATION
☐ Custody seal missing or not intact
☐ Temperature criteria not met
☐ Wet ice received in cooler

CHAIN OF CUSTODY
☐ Chain of Custody not received
☐ Sample D/T unclear or missing
☐ Analyses unclear or missing
☐ COC not properly executed

SAMPLE INFORMATION
☐ Sample containers received broken
☐ VOC vials have headspace
☐ Sample labels missing or illegible
☐ ID on COC does not match label(s)
☐ D/T on COC does not match label(s)
☐ Sample/Bottles rec'd but no analysis on COC
☐ Sample listed on COC, but not received
☐ Bottles missing for requested analysis
☐ Insufficient volume for analysis
☐ Sample received improperly preserved

TRIP BLANK INFORMATION
☐ Trip Blank on COC but not received
☐ Trip Blank received but not on COC
☐ Trip Blank not intact
☐ Received Water Trip Blank
☐ Received Soil TB

Number of Encores?
 Number of 5035 kits?
 Number of lab-filtered metals?

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: D. Bork 11.12.08

INFORMATION AND SAMPLE LABELING VERIFIED BY: Val Ar

• • • • • CORRECTIVE ACTIONS • • • • •

Client Representative Notified:
 By Accutest Representative:
 Client Instructions:

Date:
 Via: Phone Email

T24667: Chain of Custody

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SAMPLE RECEIPT LOG

JOB #:

T24667

DATE/TIME RECEIVED:

11.13.08

0900

CLIENT:

CORDELLERAN COMPLIANCE

INITIALS:

DB

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	P4B	11.12	1110	W	40mL	1-3	VR	6 2 3 4 5 6 7 8 <2 >12
2	2	P4A	1130						0 2 3 4 5 6 7 8 <2 >12
3	3	P3B	1150						0 2 3 4 5 6 7 8 <2 >12
4	4	P3A	1210						0 2 3 4 5 6 7 8 <2 >12
5	5	P2B	1230						0 2 3 4 5 6 7 8 <2 >12
6	6	MW-5	1250						0 2 3 4 5 6 7 8 <2 >12
7	7	P1B	1310						0 2 3 4 5 6 7 8 <2 >12
8	8	P1A	1330						0 2 3 4 5 6 7 8 <2 >12
9	9	MW-39	1345						0 2 3 4 5 6 7 8 <2 >12
10	10	MW-8	1405						0 2 3 4 5 6 7 8 <2 >12
11	11	MW-9	1425						0 2 3 4 5 6 7 8 <2 >12
12	12	MW-10	1445						0 2 3 4 5 6 7 8 <2 >12
13	13	TRIP BLANK (WATER)		DI		1,2			1 2 3 4 5 6 7 8 <2 >12
DB 11.13.08									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12
									1 2 3 4 5 6 7 8 <2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

T24667: Chain of Custody

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1380-MB	KK027922.D	1	11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	89% 58-125%
98-08-8	aaa-Trifluorotoluene	104% 73-139%

Method Blank Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027958.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	87% 58-125%
98-08-8	aaa-Trifluorotoluene	97% 73-139%

Method Blank Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027986.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	83% 58-125%
98-08-8	aaa-Trifluorotoluene	93% 73-139%

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1380-BS	KK027918.D	1	11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.7	94	86-121
100-41-4	Ethylbenzene	20	20.5	103	81-116
108-88-3	Toluene	20	20.1	101	87-117
1330-20-7	Xylenes (total)	60	61.8	103	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	58-125%
98-08-8	aaa-Trifluorotoluene	109%	73-139%

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027955.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.6	93	81-116
108-88-3	Toluene	20	18.4	92	87-117
1330-20-7	Xylenes (total)	60	56.4	94	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

Blank Spike Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027983.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.6	88	86-121
100-41-4	Ethylbenzene	20	19.1	96	81-116
108-88-3	Toluene	20	18.5	93	87-117
1330-20-7	Xylenes (total)	60	57.6	96	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24663-1MS	KK027942.D	1	11/18/08	FI	n/a	n/a	GKK1380
T24663-1MSD	KK027943.D	1	11/18/08	FI	n/a	n/a	GKK1380
T24663-1	KK027923.D	1	11/17/08	FI	n/a	n/a	GKK1380

The QC reported here applies to the following samples:

Method: SW846 8021B

T24667-1, T24667-2, T24667-3, T24667-4, T24667-5, T24667-7, T24667-8, T24667-9, T24667-10, T24667-11, T24667-12

CAS No.	Compound	T24663-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.3	20	22.6	107	23.3	110	3	86-121/19
100-41-4	Ethylbenzene	1.0 U	20	24.2	121* a	24.7	124* a	2	81-116/14
108-88-3	Toluene	1.0 U	20	23.4	117	23.8	119* a	2	87-117/16
1330-20-7	Xylenes (total)	2.0 U	60	72.2	120* a	73.4	122* a	2	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24663-1	Limits
460-00-4	4-Bromofluorobenzene	89%	91%	90%	58-125%
98-08-8	aaa-Trifluorotoluene	100%	104%	110%	73-139%

(a) Outside control limits, biased high.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24667
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24675-1MS	KK027979.D	1	11/18/08	FI	n/a	n/a	GKK1381
T24675-1MSD	KK027980.D	1	11/18/08	FI	n/a	n/a	GKK1381
T24675-1	KK027959.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24667-6

CAS No.	Compound	T24675-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	12.9	65* a	10.8	54* a	18	86-121/19
100-41-4	Ethylbenzene	ND	20	20.8	104	19.2	96	8	81-116/14
108-88-3	Toluene	ND	20	15.1	76* a	13.0	65* a	15	87-117/16
1330-20-7	Xylenes (total)	ND	60	61.5	103	56.4	94	9	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24675-1	Limits
460-00-4	4-Bromofluorobenzene	85%	82%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	93%	100%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.



11/21/08

Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T24675

Sampling Date: 11/13/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

Total number of pages in report: **37**



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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services
Spindle Gas Plant

Job No: T24675

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T24675-1	11/13/08	09:30 JM	11/14/08	AQ	Ground Water	MW-6
T24675-2	11/13/08	09:50 JM	11/14/08	AQ	Ground Water	MW-7
T24675-3	11/13/08	10:10 JM	11/14/08	AQ	Ground Water	MW-18
T24675-4	11/13/08	10:30 JM	11/14/08	AQ	Ground Water	MW-27
T24675-5	11/13/08	10:50 JM	11/14/08	AQ	Ground Water	MW-25
T24675-6	11/13/08	11:10 JM	11/14/08	AQ	Ground Water	MW-44
T24675-7	11/13/08	11:30 JM	11/14/08	AQ	Ground Water	MW-35
T24675-8	11/13/08	11:30 JM	11/14/08	AQ	Ground Water	MW-35D
T24675-9	11/13/08	11:50 JM	11/14/08	AQ	Ground Water	MW-32
T24675-10	11/13/08	12:10 JM	11/14/08	AQ	Ground Water	MW-31
T24675-11	11/13/08	12:10 JM	11/14/08	AQ	Ground Water	MW-38
T24675-12	11/13/08	12:30 JM	11/14/08	AQ	Ground Water	MW-37
T24675-13	11/13/08	12:50 JM	11/14/08	AQ	Ground Water	MW-30



Sample Summary
(continued)

Cordilleran Compliance Services
Spindle Gas Plant

Job No: T24675

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T24675-14	11/13/08	13:30 JM	11/14/08	AQ	Ground Water	MW-28
T24675-15	11/13/08	13:50 JM	11/14/08	AQ	Ground Water	MW-15
T24675-16	11/13/08	14:10 JM	11/14/08	AQ	Ground Water	MW-14



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-6	Date Sampled:	11/13/08
Lab Sample ID:	T24675-1	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027959.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	100%		73-139%

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:	MW-7	Date Sampled:	11/13/08
Lab Sample ID:	T24675-2	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027960.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	98%		73-139%

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:	MW-18	Date Sampled:	11/13/08
Lab Sample ID:	T24675-3	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027976.D	5	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	641	5.0	1.0	ug/l	
108-88-3	Toluene ^a	12.5	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	342	5.0	1.7	ug/l	
1330-20-7	Xylenes (total)	816	10	2.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	108%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-27	Date Sampled:	11/13/08
Lab Sample ID:	T24675-4	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027961.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

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:	MW-25	Date Sampled:	11/13/08
Lab Sample ID:	T24675-5	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027962.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2	KK028049.D	25	11/20/08	FI	n/a	n/a	GKK1382

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	63.3	1.0	0.21	ug/l	
108-88-3	Toluene ^a	24.9	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	40.8	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	884 ^b	50	14	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	122%	81%	58-125%
460-00-4	4-Bromofluorobenzene		84%	58-125%
98-08-8	aaa-Trifluorotoluene	111%	93%	73-139%
98-08-8	aaa-Trifluorotoluene		104%	73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-44	Date Sampled:	11/13/08
Lab Sample ID:	T24675-6	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028013.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		58-125%
98-08-8	aaa-Trifluorotoluene	101%		73-139%

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:	MW-35	Date Sampled:	11/13/08
Lab Sample ID:	T24675-7	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028014.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	1.1	2.0	0.55	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		58-125%
98-08-8	aaa-Trifluorotoluene	99%		73-139%

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:	MW-35D	Date Sampled:	11/13/08
Lab Sample ID:	T24675-8	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028015.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	94%		73-139%

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:	MW-32	Date Sampled:	11/13/08
Lab Sample ID:	T24675-9	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027978.D	10	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	263	10	2.1	ug/l	
108-88-3	Toluene ^a	28.4	10	2.3	ug/l	
100-41-4	Ethylbenzene	149	10	3.5	ug/l	
1330-20-7	Xylenes (total)	927	20	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	106%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-31	Date Sampled:	11/13/08
Lab Sample ID:	T24675-10	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027965.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.5	1.0	0.21	ug/l	
108-88-3	Toluene	13.3	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	14.4	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	26.8	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		58-125%
98-08-8	aaa-Trifluorotoluene	97%		73-139%

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:	MW-38	Date Sampled:	11/13/08
Lab Sample ID:	T24675-11	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028016.D	1	11/19/08	FI	n/a	n/a	GKK1382
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene ^a	2.4	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	1.5	1.0	0.35	ug/l	
1330-20-7	Xylenes (total) ^a	2.3	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		58-125%
98-08-8	aaa-Trifluorotoluene	93%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-37	Date Sampled:	11/13/08
Lab Sample ID:	T24675-12	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027969.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

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:	MW-30	Date Sampled:	11/13/08
Lab Sample ID:	T24675-13	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027970.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	92%		73-139%

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:	MW-28	Date Sampled:	11/13/08
Lab Sample ID:	T24675-14	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027971.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		58-125%
98-08-8	aaa-Trifluorotoluene	94%		73-139%

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:	MW-15	Date Sampled:	11/13/08
Lab Sample ID:	T24675-15	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027972.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene ^a	0.85	1.0	0.21	ug/l	J
108-88-3	Toluene	1.3	1.0	0.23	ug/l	
100-41-4	Ethylbenzene ^a	0.42	1.0	0.35	ug/l	J
1330-20-7	Xylenes (total)	2.1	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	95%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-14	Date Sampled:	11/13/08
Lab Sample ID:	T24675-16	Date Received:	11/14/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK027973.D	1	11/18/08	FI	n/a	n/a	GKK1381
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		58-125%
98-08-8	aaa-Trifluorotoluene	104%		73-139%

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

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL: 713-271-4700 FAX: 713-271-4770
www.accutest.com

FED-EX Tracking # 56704797880	Bottle Order Control #
Accutest Quote #	Accutest Job # T24675

Client / Reporting Information		Project Information		Requested Analysis												Matrix Codes			
Company Name Cardilleran Compliance Services, Inc.		Project Name SPINDLE														DW - Drinking Water			
Address 4690 Table Mountain Dr Ste 200		Street														GW - Ground Water			
City Golden		State CO		Zip 80403														WW - Water	
Project Contact BRAO STEPHENSON@COLOCOMP.COM		E-mail		Project # 04032-2														SW - Surface Water	
Phone # 303 941-6156		Fax #		Client Purchase Order # DCP														SO - Soil	
Sampler's Name J MARTIN																		SL - Sludge	
																		OI - Oil	
																		LIQ - Other Liquid	
																		AIR - Air	
																		SOL - Other Solid	
																		WP - Wipe	
																		LAB USE ONLY	

Turnaround Time (Business Days)		Data Deliverable Information		Comments / Remarks	
<input checked="" type="checkbox"/> 10 Day STANDARD	Approved By / Date:	<input type="checkbox"/> Commercial "A"	<input type="checkbox"/> EDD Format		
<input type="checkbox"/> 5 Day RUSH		<input type="checkbox"/> Commercial "B"			
<input type="checkbox"/> 3 Day EMERGENCY		<input type="checkbox"/> Reduced Tier 1			
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Full Tier 1			
<input type="checkbox"/> 1 Day EMERGENCY		<input type="checkbox"/> TRRP13			
<input type="checkbox"/> Other		Commercial "A" = Results Only			

Emergency & Rush T/A data available VIA LabLink					
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sample # 1	Date Time 11/13/08 1530	Received by TO FEDEX	Relinquished by 2	Date Time 2	Received by 2
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 5	Date Time 11/14/08	Received by slv-hc	Custody Seal #	Preserved where applicable <input type="checkbox"/>	On Ice <input type="checkbox"/>
			Cooler Temp. 3.1		

0900

T24675: Chain of Custody

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CHAIN OF CUSTODY

10165 Harwin Drive, Ste. 150, Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accufest.com

FED-EX Tracking # 7978480

Bottle Order Control #	
------------------------	--

Accutest Quote #

Accutest Job #	
----------------	--

724675

[illegible]

T24675: Chain of Custody

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SAMPLE INSPECTION FORM

Accutest Job Number: T24675 Client: CORDILLERAN COMPLIANCE SERVICES Project: Spindle
 Date/Time Received: 11-14-08 0900 # of Coolers Received: 1 Thermometer # 121
 Cooler Temps: #1: 3.1 #2: #3: #4: #5: #6: #7: #8:
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 867047978420

COOLER INFORMATION

- ☐ Custody seal missing or not intact
- ☐ Temperature criteria not met
- ☐ Wet ice received in cooler

CHAIN OF CUSTODY

- ☐ Chain of Custody not received
- ☐ Sample D/T unclear or missing
- ☐ Analyses unclear or missing
- ☐ COC not properly executed

SAMPLE INFORMATION

- ☐ Sample containers received broken
- ☐ VOC vials have headspace
- ☐ Sample labels missing or illegible
- ☐ ID on COC does not match label(s)
- ☐ D/T on COC does not match label(s)
- ☐ Sample/Bottles rcvd but no analysis on COC
- ☐ Sample listed on COC, but not received
- ☐ Bottles missing for requested analysis
- ☐ Insufficient volume for analysis
- ☐ Sample received improperly preserved

TRIP BLANK INFORMATION

- ☐ Trip Blank on COC but not received
- ☐ Trip Blank received but not on COC
- ☐ Trip Blank not intact
- ☐ Received Water Trip Blank
- ☐ Received Soil TB

Number of Encores?
 Number of 5035 kits?
 Number of lab-filtered metals?

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [Signature] 11-14-08

INFORMATION AND SAMPLE LABELING VERIFIED BY: [Signature]

CORRECTIVE ACTIONS

Client Representative Notified:

Date:

By Accutest Representative:

Via: Phone Email

Client Instructions:

T24675: Chain of Custody

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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027958.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	87% 58-125%
98-08-8	aaa-Trifluorotoluene	97% 73-139%

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-MB	KK027986.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	83% 58-125%
98-08-8	aaa-Trifluorotoluene	93% 73-139%

Method Blank Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-MB	KK028012.D	1	11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	83% 58-125%
98-08-8	aaa-Trifluorotoluene	94% 73-139%

Method Blank Summary

Page 1 of 1

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-MB	KK028037.D	1	11/20/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	83% 58-125%
98-08-8	aaa-Trifluorotoluene	92% 73-139%

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027955.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.6	93	81-116
108-88-3	Toluene	20	18.4	92	87-117
1330-20-7	Xylenes (total)	60	56.4	94	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	93%	73-139%

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1381-BS	KK027983.D	1	11/19/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.6	88	86-121
100-41-4	Ethylbenzene	20	19.1	96	81-116
108-88-3	Toluene	20	18.5	93	87-117
1330-20-7	Xylenes (total)	60	57.6	96	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	83%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-BS	KK028009.D	1	11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.8	94	86-121
100-41-4	Ethylbenzene	20	20.5	103	81-116
108-88-3	Toluene	20	20.1	101	87-117
1330-20-7	Xylenes (total)	60	61.8	103	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	82%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	73-139%

Blank Spike Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1382-BS	KK028034.D	1	11/20/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	17.4	87	86-121
100-41-4	Ethylbenzene	20	18.3	92	81-116
108-88-3	Toluene	20	17.6	88	87-117
1330-20-7	Xylenes (total)	60	55.3	92	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	82%	58-125%
460-00-4	4-Bromofluorobenzene	84%	58-125%
98-08-8	aaa-Trifluorotoluene	89%	73-139%
98-08-8	aaa-Trifluorotoluene	96%	73-139%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24675-1MS	KK027979.D	1	11/18/08	FI	n/a	n/a	GKK1381
T24675-1MSD	KK027980.D	1	11/18/08	FI	n/a	n/a	GKK1381
T24675-1	KK027959.D	1	11/18/08	FI	n/a	n/a	GKK1381

The QC reported here applies to the following samples:

Method: SW846 8021B

T24675-1, T24675-2, T24675-3, T24675-4, T24675-5, T24675-9, T24675-10, T24675-12, T24675-13, T24675-14, T24675-15, T24675-16

CAS No.	Compound	T24675-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	12.9	65* a	10.8	54* a	18	86-121/19
100-41-4	Ethylbenzene	ND	20	20.8	104	19.2	96	8	81-116/14
108-88-3	Toluene	ND	20	15.1	76* a	13.0	65* a	15	87-117/16
1330-20-7	Xylenes (total)	ND	60	61.5	103	56.4	94	9	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24675-1	Limits
460-00-4	4-Bromofluorobenzene	85%	82%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	97%	93%	100%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T24675
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24692-1MS	KK028031.D	1	11/20/08	FI	n/a	n/a	GKK1382
T24692-1MSD	KK028032.D	1	11/20/08	FI	n/a	n/a	GKK1382
T24692-1	KK028017.D	1	11/19/08	FI	n/a	n/a	GKK1382

The QC reported here applies to the following samples: Method: SW846 8021B

T24675-5, T24675-6, T24675-7, T24675-8, T24675-11

CAS No.	Compound	T24692-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U	20	18.0	90	18.0	90	0	86-121/19
100-41-4	Ethylbenzene	1.0 U	20	19.9	100	20.1	101	1	81-116/14
108-88-3	Toluene	1.0 U	20	19.1	96	19.4	97	2	87-117/16
1330-20-7	Xylenes (total)	2.0 U	60	59.3	99	60.0	100	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24692-1	Limits
460-00-4	4-Bromofluorobenzene	83%	84%	85%	58-125%
460-00-4	4-Bromofluorobenzene	85%	87%		58-125%
98-08-8	aaa-Trifluorotoluene	95%	97%	95%	73-139%
98-08-8	aaa-Trifluorotoluene	97%	100%		73-139%



IT'S ALL IN THE CHEMISTRY

12/02/08

Technical Report for

Cordilleran Compliance Services

Spindle Gas Plant

Accutest Job Number: T24755

Sampling Date: 11/20/08

Report to:

Cordilleran Compliance Services
4690 Table Mountain Dr. Suite 200
Golden, CO 80403
bradstephenson@cordcomp.com

ATTN: Brad Stephenson

Total number of pages in report: **32**



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.

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.



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Sample Summary

Cordilleran Compliance Services
Spindle Gas Plant

Job No: T24755

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T24755-1	11/20/08	08:40 JM	11/21/08	AQ	Ground Water	MW-1
T24755-2	11/20/08	09:00 JM	11/21/08	AQ	Ground Water	MW-2
T24755-3	11/20/08	09:20 JM	11/21/08	AQ	Ground Water	MW-3
T24755-4	11/20/08	09:40 JM	11/21/08	AQ	Ground Water	MW-4
T24755-5	11/20/08	10:00 JM	11/21/08	AQ	Ground Water	MW-34
T24755-6	11/20/08	10:20 JM	11/21/08	AQ	Ground Water	MW-33
T24755-7	11/20/08	10:40 JM	11/21/08	AQ	Ground Water	MW-17
T24755-8	11/20/08	10:40 JM	11/21/08	AQ	Ground Water	MW-17D
T24755-9	11/20/08	11:00 JM	11/21/08	AQ	Ground Water	MW-24
T24755-10	11/20/08	11:20 JM	11/21/08	AQ	Ground Water	MW-22
T24755-11	11/20/08	11:40 JM	11/21/08	AQ	Ground Water	MW-36
T24755-12	11/20/08	12:00 JM	11/21/08	AQ	Ground Water	MW-21



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1	Date Sampled:	11/20/08
Lab Sample ID:	T24755-1	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028070.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.78	1.0	0.21	ug/l	J
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		58-125%
98-08-8	aaa-Trifluorotoluene	88%		73-139%

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:	MW-2	Date Sampled:	11/20/08
Lab Sample ID:	T24755-2	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028071.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028136.D	200	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6430 ^a	200	41	ug/l	
108-88-3	Toluene ^b	21.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	291 ^a	200	70	ug/l	
1330-20-7	Xylenes (total)	29.4	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%	91%	58-125%
98-08-8	aaa-Trifluorotoluene	150% ^c	111%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

(c) Outside control limits due to matrix interference. Confirmed by reanalysis.

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:	MW-3	Date Sampled:	11/20/08
Lab Sample ID:	T24755-3	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028072.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028137.D	100	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3240 ^a	100	21	ug/l	
108-88-3	Toluene ^b	27.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	83.7	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	44.3	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	108%	99%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

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:	MW-4	Date Sampled:	11/20/08
Lab Sample ID:	T24755-4	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028073.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028138.D	10	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1970 ^a	10	2.1	ug/l	
108-88-3	Toluene	18.0	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	390 ^a	10	3.5	ug/l	
1330-20-7	Xylenes (total)	1090 ^a	20	5.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%	85%	58-125%
98-08-8	aaa-Trifluorotoluene	94%	131%	73-139%

(a) Result is from Run# 2

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

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

Report of Analysis

Client Sample ID:	MW-34	Date Sampled:	11/20/08
Lab Sample ID:	T24755-5	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028074.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028133.D	20	11/25/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	628 ^a	20	4.1	ug/l	
108-88-3	Toluene ^b	6.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	43.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	12.5	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%	83%	58-125%
98-08-8	aaa-Trifluorotoluene	123%	96%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

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:	MW-33	Date Sampled:	11/20/08
Lab Sample ID:	T24755-6	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028075.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	15.8	1.0	0.21	ug/l	
108-88-3	Toluene ^a	6.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	47.9	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	362	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		58-125%
98-08-8	aaa-Trifluorotoluene	138%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-17	Date Sampled:	11/20/08
Lab Sample ID:	T24755-7	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028076.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028143.D	100	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2510 ^a	100	21	ug/l	
108-88-3	Toluene	5.1	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	5.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	297	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	187% ^b	97%	73-139%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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:	MW-17D	Date Sampled:	11/20/08
Lab Sample ID:	T24755-8	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028077.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028144.D	10	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1900 ^a	10	2.1	ug/l	
108-88-3	Toluene	5.4	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	5.3	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	301	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	86%	58-125%
98-08-8	aaa-Trifluorotoluene	177% ^b	95%	73-139%

(a) Result is from Run# 2

(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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:	MW-24	Date Sampled:	11/20/08
Lab Sample ID:	T24755-9	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028132.D	1	11/25/08	FI	n/a	n/a	GKK1384
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		58-125%
98-08-8	aaa-Trifluorotoluene	103%		73-139%

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:	MW-22						
Lab Sample ID:	T24755-10				Date Sampled:	11/20/08	
Matrix:	AQ - Ground Water				Date Received:	11/21/08	
Method:	SW846 8021B				Percent Solids:	n/a	
Project:	Spindle Gas Plant						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028082.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.9	1.0	0.21	ug/l	
108-88-3	Toluene ^a	0.56	1.0	0.23	ug/l	J
100-41-4	Ethylbenzene	3.2	1.0	0.35	ug/l	
1330-20-7	Xylenes (total) ^a	0.72	2.0	0.55	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		58-125%
98-08-8	aaa-Trifluorotoluene	80%		73-139%

(a) Unable to confirm with 2nd column due to matrix interference.

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:	MW-36	Date Sampled:	11/20/08
Lab Sample ID:	T24755-11	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028083.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2	KK028146.D	20	11/26/08	FI	n/a	n/a	GKK1384

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	443 ^a	20	4.1	ug/l	
108-88-3	Toluene ^b	25.7	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	113	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	506 ^a	40	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	83%	58-125%
98-08-8	aaa-Trifluorotoluene	84%	111%	73-139%

(a) Result is from Run# 2

(b) Unable to confirm with 2nd column due to matrix interference.

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:	MW-21	Date Sampled:	11/20/08
Lab Sample ID:	T24755-12	Date Received:	11/21/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Spindle Gas Plant		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK028084.D	1	11/24/08	FI	n/a	n/a	GKK1383
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	38.8	1.0	0.21	ug/l	
108-88-3	Toluene	3.5	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	11.2	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	257	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		58-125%
98-08-8	aaa-Trifluorotoluene	84%		73-139%

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

SAMPLE INSPECTION FORM

Accutest Job Number: T24755 Client: CARDILLERAN COMPLIANCE Project: SPINDLE
 Date/Time Received: 11-28-08 0920 # of Coolers Received: 1 Thermometer # 110
 Cooler Temps: #1: 1-1 #2: #3: #4: #5: #6: #7: #8:
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 967047978470

COOLER INFORMATION

☐ Custody seal missing or not intact
☐ Temperature criteria not met
☐ Wet ice received in cooler

CHAIN OF CUSTODY

☐ Chain of Custody not received
☐ Sample D/T unclear or missing
☐ Analyses unclear or missing
☐ COC not properly executed

SAMPLE INFORMATION

☐ Sample containers received broken
☐ VOC vials have headspace
☐ Sample labels missing or illegible
☐ ID on COC does not match label(s)
☐ D/T on COC does not match label(s)
☐ Sample/Bottles rec'd but no analysis on COC
☐ Sample listed on COC, but not received
☐ Bottles missing for requested analysis
☐ Insufficient volume for analysis
☐ Sample received improperly preserved

TRIP BLANK INFORMATION

☐ Trip Blank on COC but not received
☐ Trip Blank received but not on COC
☐ Trip Blank not intact
☒ Received Water Trip Blank
☐ Received Soil TB

Number of Encores?
 Number of 5035 kits?
 Number of lab-filtered metals?

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [Signature] 11.21.08

INFORMATION AND SAMPLE LABELING VERIFIED BY: [Signature]

CORRECTIVE ACTIONS

Client Representative Notified:

Date:

By Accutest Representative:

Via: Phone Email

Client Instructions:

T24755: Chain of Custody

Page 3 of 4

SAMPLE RECEIPT LOG

JOB #: T24755 DATE/TIME RECEIVED: 11-21-08 09:00

CLIENT: Corvallis Compliance INITIALS: IT

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH
1	1	MW 1	11-20-08 0840	GW	40mL	1-3	VR	1 2 3 4 5 6 7 8	<2 >12
	2	MW 2	0900					1 2 3 4 5 6 7 8	<2 >12
	3	MW 3	0920					1 2 3 4 5 6 7 8	<2 >12
	4	MW 4	0940					1 2 3 4 5 6 7 8	<2 >12
	5	MW 34	1000					1 2 3 4 5 6 7 8	<2 >12
	6	MW 33	1020					1 2 3 4 5 6 7 8	<2 >12
	7	MW 17	1040					1 2 3 4 5 6 7 8	<2 >12
	8	MW 17D	1040					1 2 3 4 5 6 7 8	<2 >12
	9	MW 29	1100					1 2 3 4 5 6 7 8	<2 >12
	10	MW 22	1120					1 2 3 4 5 6 7 8	<2 >12
	11	MW 36	1140					1 2 3 4 5 6 7 8	<2 >12
	12	MW 21	1200					1 2 3 4 5 6 7 8	<2 >12
	13	Trip Blank		DI		1-2		1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12
								1 2 3 4 5 6 7 8	<2 >12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NaOH 6: DI 7: MeOH 8: Other
LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer



GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-MB	KK028069.D	1	11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	84% 58-125%
98-08-8	aaa-Trifluorotoluene	92% 73-139%

Method Blank Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-MB	KK028095.D	1	11/25/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	77% 58-125%
98-08-8	aaa-Trifluorotoluene	80% 73-139%

Method Blank Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-MB	KK028131.D	1	11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	85% 58-125%
98-08-8	aaa-Trifluorotoluene	97% 73-139%

Method Blank Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-MB	KK028156.D	1	11/26/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.55	ug/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	91% 58-125%
98-08-8	aaa-Trifluorotoluene	107% 73-139%

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-BS	KK028066.D	1	11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.3	97	86-121
100-41-4	Ethylbenzene	20	19.0	95	81-116
108-88-3	Toluene	20	18.7	94	87-117
1330-20-7	Xylenes (total)	60	56.8	95	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	81%	58-125%
98-08-8	aaa-Trifluorotoluene	89%	73-139%

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1383-BS	KK028092.D	1	11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	18.1	91	86-121
100-41-4	Ethylbenzene	20	17.7	89	81-116
108-88-3	Toluene	20	17.5	88	87-117
1330-20-7	Xylenes (total)	60	53.0	88	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	76%	58-125%
98-08-8	aaa-Trifluorotoluene	82%	73-139%

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-BS	KK028128.D	1	11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	86-121
100-41-4	Ethylbenzene	20	20.7	104	81-116
108-88-3	Toluene	20	20.6	103	87-117
1330-20-7	Xylenes (total)	60	60.7	101	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	87%	58-125%
98-08-8	aaa-Trifluorotoluene	102%	73-139%

Blank Spike Summary

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK1384-BS	KK028153.D	1	11/26/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples: Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.2	101	86-121
100-41-4	Ethylbenzene	20	19.9	100	81-116
108-88-3	Toluene	20	20.0	100	87-117
1330-20-7	Xylenes (total)	60	58.5	98	85-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	88%	58-125%
98-08-8	aaa-Trifluorotoluene	103%	73-139%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24755-1MS	KK028089.D 1		11/24/08	FI	n/a	n/a	GKK1383
T24755-1MSD	KK028090.D 1		11/24/08	FI	n/a	n/a	GKK1383
T24755-1	KK028070.D 1		11/24/08	FI	n/a	n/a	GKK1383

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-1, T24755-2, T24755-3, T24755-4, T24755-5, T24755-6, T24755-7, T24755-8, T24755-10, T24755-11, T24755-12

CAS No.	Compound	T24755-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.78	J	20	17.9	86	17.9	86	0	86-121/19
100-41-4	Ethylbenzene	ND		20	16.0	80* a	16.3	82	2	81-116/14
108-88-3	Toluene	ND		20	16.1	81* a	16.5	83* a	2	87-117/16
1330-20-7	Xylenes (total)	ND		60	47.8	80* a	48.5	81* a	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24755-1	Limits
460-00-4	4-Bromofluorobenzene	75%	78%	82%	58-125%
98-08-8	aaa-Trifluorotoluene	75%	88%	88%	73-139%

(a) Outside control limits, biased low.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T24755
Account: CCSARCO Cordilleran Compliance Services
Project: Spindle Gas Plant

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T24755-9MS	KK028150.D	1	11/26/08	FI	n/a	n/a	GKK1384
T24755-9MSD	KK028151.D	1	11/26/08	FI	n/a	n/a	GKK1384
T24755-9	KK028132.D	1	11/25/08	FI	n/a	n/a	GKK1384

The QC reported here applies to the following samples:

Method: SW846 8021B

T24755-2, T24755-3, T24755-4, T24755-5, T24755-7, T24755-8, T24755-9, T24755-11

CAS No.	Compound	T24755-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	15.0	75* a	14.1	71* a	6	86-121/19
100-41-4	Ethylbenzene	ND	20	18.5	93	18.4	92	1	81-116/14
108-88-3	Toluene	ND	20	15.3	77* a	14.8	74* a	3	87-117/16
1330-20-7	Xylenes (total)	ND	60	55.2	92	54.9	92	1	85-115/12

CAS No.	Surrogate Recoveries	MS	MSD	T24755-9	Limits
460-00-4	4-Bromofluorobenzene	86%	89%	88%	58-125%
98-08-8	aaa-Trifluorotoluene	102%	104%	103%	73-139%

(a) Outside control limits due to matrix interference. Confirmed by reanalysis.