Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-408		
Lab Sample ID:	TC55520-1	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.10 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.19	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.0089 U	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.017 J	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

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Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28093.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	2.07	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.0985	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.688	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	43.5	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.500	D039	0.70	0.050	0.023	mg/l	
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		72-122%
17060-07-0	1,2-Dichloroethane-D4	80%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	93%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35715.D	2	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	5.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	1.77	D023	200	0.50	0.096	mg/l	
	3&4-Methylphenol	4.65	D024	200	0.50	0.11	mg/l	
87-86-5	Pentachlorophenol	1.0 U	D037	100	2.5	1.0	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.098 U	D041	400	0.50	0.098	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.219	D042	2.0	0.50	0.11	mg/l	J
106-46-7	1,4-Dichlorobenzene	0.11 U	D027	7.5	0.50	0.11	mg/l	
121-14-2	2,4-Dinitrotoluene	0.13 U	D030	0.13	0.50	0.13	mg/l	
118-74-1	Hexachlorobenzene	0.16 U	D032	0.13	0.50	0.16	mg/l	
87-68-3	Hexachlorobutadiene	0.12 U	D033	0.50	0.50	0.12	mg/l	
67-72-1	Hexachloroethane	0.13 U	D034	3.0	0.50	0.13	mg/l	
98-95-3	Nitrobenzene	0.12 U	D036	2.0	0.50	0.12	mg/l	
110-86-1	Pyridine	0.13 U	D038	5.0	0.50	0.13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%		10-86%
4165-62-2	Phenol-d5	76%		10-83%
118-79-6	2,4,6-Tribromophenol	55%		32-128%
4165-60-0	Nitrobenzene-d5	110%		29-115%
321-60-8	2-Fluorobiphenyl	80%		34-113%
1718-51-0	Terphenyl-d14	94%		23-138%

(a) Elevated reporting limits due to matrix interference, final volume 5 ml. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	NN177053.D	10	10/01/14	SC	09/30/14	OP34138	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	773% [b]		39-122%
2051-24-3	Decachlorobiphenyl	100%		28-123%

(a) Closing CCV outside control limits biased low due to matrix intererence from the previous samples. Confirmed by re-analysis.
(b) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.037 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.54 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.31	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.14	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.0053	D009	0.20	0.0020	0.00050	mg/l	10	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.050	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 2		
Lab Sample ID:	TC55520-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:21	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	160	8.0	0.025	mg/l	40	10/01/14 16:45	DP	SM 4500S + F
pH [b]	4.97			su	1	09/29/14	JG	SM 4500H + B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 19.5 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28095.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.0541	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.529	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.017 U	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	1.48	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.023 U	D039	0.70	0.050	0.023	mg/l	
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-122%
17060-07-0	1,2-Dichloroethane-D4	82%		68-124%
2037-26-5	Toluene-D8	106%		80-119%
460-00-4	4-Bromofluorobenzene	93%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35716.D	2	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	2.19	D023	200	1.0	0.19	mg/l	
	3&4-Methylphenol	3.16	D024	200	1.0	0.22	mg/l	
87-86-5	Pentachlorophenol	2.0 U	D037	100	5.0	2.0	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.20 U	D041	400	1.0	0.20	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.22 U	D042	2.0	1.0	0.22	mg/l	
106-46-7	1,4-Dichlorobenzene	0.22 U	D027	7.5	1.0	0.22	mg/l	
121-14-2	2,4-Dinitrotoluene	0.25 U	D030	0.13	1.0	0.25	mg/l	
118-74-1	Hexachlorobenzene	0.31 U	D032	0.13	1.0	0.31	mg/l	
87-68-3	Hexachlorobutadiene	0.24 U	D033	0.50	1.0	0.24	mg/l	
67-72-1	Hexachloroethane	0.25 U	D034	3.0	1.0	0.25	mg/l	
98-95-3	Nitrobenzene	0.23 U	D036	2.0	1.0	0.23	mg/l	
110-86-1	Pyridine	0.25 U	D038	5.0	1.0	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		10-86%
4165-62-2	Phenol-d5	72%		10-83%
118-79-6	2,4,6-Tribromophenol	67%		32-128%
4165-60-0	Nitrobenzene-d5	89%		29-115%
321-60-8	2-Fluorobiphenyl	72%		34-113%
1718-51-0	Terphenyl-d14	87%		23-138%

(a) Elevated reporting limits due to matrix interference, final volume 10 ml. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN177054.D	10	10/01/14	SC	09/30/14	OP34138	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [a]		39-122%
2051-24-3	Decachlorobiphenyl	0% [a]		28-123%

(a) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.014 J	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.78 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.0014 J	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.14	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.036	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.0049 U	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.45	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 8		
Lab Sample ID:	TC55520-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:26	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	600	20	0.025	mg/l	100	10/01/14 16:45	DP	SM 4500S + F
pH [b]	6.47			su	1	09/29/14	JG	SM 4500H + B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 19.0 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K28097.D	50	09/29/14	EM	09/29/14	OP34107	VK1199
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.494	D018	0.50	0.050	0.017	mg/l	
108-90-7	Chlorobenzene	0.0966	D021	100	0.050	0.013	mg/l	
67-66-3	Chloroform	0.017 U	D022	6.0	0.050	0.017	mg/l	
56-23-5	Carbon tetrachloride	0.022 U	D019	0.50	0.050	0.022	mg/l	
75-35-4	1,1-Dichloroethylene	0.023 U	D029	0.70	0.050	0.023	mg/l	
107-06-2	1,2-Dichloroethane	0.018 U	D028	0.50	0.050	0.018	mg/l	
78-93-3	Methyl ethyl ketone	29.3	D035	200	0.50	0.14	mg/l	
127-18-4	Tetrachloroethylene	0.0251	D039	0.70	0.050	0.023	mg/l	J
79-01-6	Trichloroethylene	0.024 U	D040	0.50	0.050	0.024	mg/l	
75-01-4	Vinyl chloride	0.040 U	D043	0.20	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-122%
17060-07-0	1,2-Dichloroethane-D4	80%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	87%		72-126%

(a) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P35717.D	4	09/30/14	SC	09/29/14	OP34117	EP1721
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	0.568	D023	200	0.20	0.039	mg/l	
	3&4-Methylphenol	2.42	D024	200	0.20	0.043	mg/l	
87-86-5	Pentachlorophenol	0.40 U	D037	100	1.0	0.40	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.039 U	D041	400	0.20	0.039	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.045 U	D042	2.0	0.20	0.045	mg/l	
106-46-7	1,4-Dichlorobenzene	0.043 U	D027	7.5	0.20	0.043	mg/l	
121-14-2	2,4-Dinitrotoluene	0.050 U	D030	0.13	0.20	0.050	mg/l	
118-74-1	Hexachlorobenzene	0.062 U	D032	0.13	0.20	0.062	mg/l	
87-68-3	Hexachlorobutadiene	0.048 U	D033	0.50	0.20	0.048	mg/l	
67-72-1	Hexachloroethane	0.050 U	D034	3.0	0.20	0.050	mg/l	
98-95-3	Nitrobenzene	0.046 U	D036	2.0	0.20	0.046	mg/l	
110-86-1	Pyridine	0.050 U	D038	5.0	0.20	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	17%		10-86%
4165-62-2	Phenol-d5	33%		10-83%
118-79-6	2,4,6-Tribromophenol	37%		32-128%
4165-60-0	Nitrobenzene-d5	39%		29-115%
321-60-8	2-Fluorobiphenyl	39%		34-113%
1718-51-0	Terphenyl-d14	48%		23-138%

(a) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	NN177205.D	10	10/06/14	SC	09/30/14	OP34138	GNN1494
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.0017 U	D013	0.40	0.0050	0.0017	mg/l	
12789-03-6	Chlordane	0.015 U	D020	0.030	0.050	0.015	mg/l	
72-20-8	Endrin	0.0018 U	D012	0.020	0.010	0.0018	mg/l	
76-44-8	Heptachlor	0.00084 U	D031	0.0080	0.0050	0.00084	mg/l	
1024-57-3	Heptachlor epoxide	0.0011 U	D031	0.0080	0.0050	0.0011	mg/l	
72-43-5	Methoxychlor	0.013 U	D014	10	0.050	0.013	mg/l	
8001-35-2	Toxaphene	0.012 U	D015	0.50	0.050	0.012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	2425% [a]		39-122%
2051-24-3	Decachlorobiphenyl	37%		28-123%

(a) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.0050 U	D004	5.0	0.050	0.0050	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Barium	0.16 J	D005	100	5.0	0.017	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Cadmium	0.00059 J	D006	1.0	0.020	0.00045	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Chromium	0.14	D007	5.0	0.050	0.0014	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Lead	0.16	D008	5.0	0.025	0.0089	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Mercury	0.00025	D009	0.20	0.00020	0.000050	mg/l	1	10/01/14	10/01/14	CC	SW846 7470A [2]
Selenium	0.017 J	D010	1.0	0.050	0.0049	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/29/14	09/30/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10201
(2) Instrument QC Batch: MA10205
(3) Prep QC Batch: MP24292
(4) Prep QC Batch: MP24313

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide [a]	1.0 U	1.0	1.0	mg/l	200	10/01/14 15:26	CV	EPA 335.4/SW 9012
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 1010
Sulfide	80.0	8.0	0.025	mg/l	40	10/01/14 16:45	DP	SM 4500S + F
pH [b]	4.90			su	1	09/29/14	JG	SM 4500H + B/9040

(a) Elevated reporting limit due to matrix interference.
(b) Field analysis required. Received out of hold time and analyzed by request.temp 19.6 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8260C SW846 1311	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	K28172.D	25	10/02/14	EM	09/30/14	OP34126	VK1203
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	0.214	D018	0.50	0.025	0.0085	mg/l	
108-90-7	Chlorobenzene	0.0376	D021	100	0.025	0.0067	mg/l	
67-66-3	Chloroform	0.168	D022	6.0	0.025	0.0086	mg/l	
56-23-5	Carbon tetrachloride	0.011 U	D019	0.50	0.025	0.011	mg/l	
75-35-4	1,1-Dichloroethylene	0.011 U	D029	0.70	0.025	0.011	mg/l	
107-06-2	1,2-Dichloroethane	0.0898	D028	0.50	0.025	0.0088	mg/l	
78-93-3	Methyl ethyl ketone	0.989	D035	200	0.25	0.068	mg/l	
127-18-4	Tetrachloroethylene	0.012 U	D039	0.70	0.025	0.012	mg/l	
79-01-6	Trichloroethylene	0.012 U	D040	0.50	0.025	0.012	mg/l	
75-01-4	Vinyl chloride	0.020 U	D043	0.20	0.025	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		72-122%
17060-07-0	1,2-Dichloroethane-D4	85%		68-124%
2037-26-5	Toluene-D8	91%		80-119%
460-00-4	4-Bromofluorobenzene	90%		72-126%

(a) All results reported on a wet weight basis.
(b) Dilution required due to matrix interference.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	J175118.D	2	10/01/14	SC	10/01/14	OP34148	EJ1949
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
95-48-7	2-Methylphenol	0.226	D023	200	0.10	0.019	mg/l	
	3&4-Methylphenol	0.892	D024	200	0.10	0.022	mg/l	
87-86-5	Pentachlorophenol	0.20 U	D037	100	0.50	0.20	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.020 U	D041	400	0.10	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.022 U	D042	2.0	0.10	0.022	mg/l	
106-46-7	1,4-Dichlorobenzene	0.022 U	D027	7.5	0.10	0.022	mg/l	
121-14-2	2,4-Dinitrotoluene	0.025 U	D030	0.13	0.10	0.025	mg/l	
118-74-1	Hexachlorobenzene	0.031 U	D032	0.13	0.10	0.031	mg/l	
87-68-3	Hexachlorobutadiene	0.024 U	D033	0.50	0.10	0.024	mg/l	
67-72-1	Hexachloroethane	0.025 U	D034	3.0	0.10	0.025	mg/l	
98-95-3	Nitrobenzene	0.023 U	D036	2.0	0.10	0.023	mg/l	
110-86-1	Pyridine	0.025 U	D038	5.0	0.10	0.025	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		10-86%
4165-62-2	Phenol-d5	56%		10-83%
118-79-6	2,4,6-Tribromophenol	65%		32-128%
4165-60-0	Nitrobenzene-d5	64%		29-115%
321-60-8	2-Fluorobiphenyl	64%		34-113%
1718-51-0	Terphenyl-d14	80%		23-138%

(a) All results reported on a wet weight basis.
(b) Elevated reporting limits due to matrix interference. Dilution required due to high concentration of non-target compounds.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
Method:	SW846 8081A SW846 3510C	**Percent Solids:**	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	NN177047.D	1	10/01/14	SC	10/01/14	OP34149	GNN1491
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
58-89-9	gamma-BHC (Lindane)	0.00017 U	D013	0.40	0.00050	0.00017	mg/l	
12789-03-6	Chlordane	0.0015 U	D020	0.030	0.0050	0.0015	mg/l	
72-20-8	Endrin	0.00018 U	D012	0.020	0.0010	0.00018	mg/l	
76-44-8	Heptachlor	0.000084 U	D031	0.0080	0.00050	0.000084	mg/l	
1024-57-3	Heptachlor epoxide	0.00011 U	D031	0.0080	0.00050	0.00011	mg/l	
72-43-5	Methoxychlor	0.0013 U	D014	10	0.0050	0.0013	mg/l	
8001-35-2	Toxaphene	0.0012 U	D015	0.50	0.0050	0.0012	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	441%		39-122%
2051-24-3	Decachlorobiphenyl	51%		28-123%

(a) All results reported on a wet weight basis.
(b) Closing CCV outside control limits biased low due to matrix intererence from the previous samples. Confirmed by re-analysis.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
		Percent Solids:	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	MQL	SDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.0050 U	D004	5.0	0.050	0.0050	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Barium	0.32 J	D005	100	5.0	0.017	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Cadmium	0.00045 U	D006	1.0	0.020	0.00045	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Chromium	0.0082 J	D007	5.0	0.050	0.0014	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Lead	0.0089 U	D008	5.0	0.025	0.0089	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Mercury	0.000050 U	D009	0.20	0.00020	0.000050	mg/l	1	10/02/14	10/02/14	CC	SW846 7470A [2]
Selenium	0.0049 U	D010	1.0	0.050	0.0049	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]
Silver	0.0012 U	D011	5.0	0.050	0.0012	mg/l	5	09/30/14	10/01/14	NS	SW846 6010B [1]

(1) Instrument QC Batch: MA10204
(2) Instrument QC Batch: MA10207
(3) Prep QC Batch: MP24296
(4) Prep QC Batch: MP24325

(a) All results reported on a wet weight basis.

MQL = Method Quantitation Limit SDL = Sample Detection Limit U = Indicates a result < SDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = SDL but < MQL

Accutest Laboratories

Report of Analysis

Client Sample ID:	S.TANK 5		
Lab Sample ID:	TC55520-4A	**Date Sampled:**	09/25/14
Matrix:	SO - Sludge	**Date Received:**	09/25/14
		Percent Solids:	n/a [a]
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide	1.5 U	2.8	1.5	mg/kg	1	10/01/14 16:07	CV	SW846 9012 M
Ignitability (Flashpoint)	> 200			Deg. F	1	09/30/14	EB	SW846 CHAP7
pH [b]	4.89			su	1	09/29/14	JG	SW846 9045C

(a) All results reported on a wet weight basis.
(b) temp 19.6 c

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

U = Indicates a result < SDL
J = Indicates a result > = SDL but < MQL