Sample Summary

Weston Solutions

CES- Chemical Spill/4904 Griggs, Houston, TX

Job No: TC53933

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
TC53933-1	08/27/14	14:35		08/28/14	SO	Oil	VB-639
TC53933-1A	08/27/14	14:35		08/28/14	SO	Oil	VB-639
TC53933-2	08/28/14	09:30		08/28/14	SO	Sludge	VB-618
TC53933-2A	08/28/14	09:30		08/28/14	SO	Sludge	VB-618

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

9855940

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8260C	**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	Y1070608.D	100	09/04/14	KS	n/a	n/a	VY3741
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	1.14 g	5.0 ml	100 ul
Run #2			

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	220000 U	880000	220000	ug/kg	
71-43-2	Benzene	132000	88000	15000	ug/kg	
108-86-1	Bromobenzene	8800 U	88000	8800	ug/kg	
74-97-5	Bromochloromethane	24000 U	88000	24000	ug/kg	
75-27-4	Bromodichloromethane	9800 U	88000	9800	ug/kg	
75-25-2	Bromoform	17000 U	88000	17000	ug/kg	
104-51-8	n-Butylbenzene	9600 U	88000	9600	ug/kg	
135-98-8	sec-Butylbenzene	37300	88000	19000	ug/kg	J
98-06-6	tert-Butylbenzene	17000 U	88000	17000	ug/kg	
108-90-7	Chlorobenzene	20000 U	88000	20000	ug/kg	
75-00-3	Chloroethane	34000 U	88000	34000	ug/kg	
67-66-3	Chloroform	9400 U	88000	9400	ug/kg	
95-49-8	o-Chlorotoluene	10000 U	88000	10000	ug/kg	
106-43-4	p-Chlorotoluene	9000 U	88000	9000	ug/kg	
75-15-0	Carbon disulfide	13000 U	88000	13000	ug/kg	
56-23-5	Carbon tetrachloride	19000 U	88000	19000	ug/kg	
75-34-3	1,1-Dichloroethane	9000 U	88000	9000	ug/kg	
75-35-4	1,1-Dichloroethylene	9100 U	88000	9100	ug/kg	
563-58-6	1,1-Dichloropropene	9800 U	88000	9800	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	69000 U	88000	69000	ug/kg	
106-93-4	1,2-Dibromoethane	9300 U	88000	9300	ug/kg	
107-06-2	1,2-Dichloroethane	10000 U	88000	10000	ug/kg	
78-87-5	1,2-Dichloropropane	13000 U	88000	13000	ug/kg	
142-28-9	1,3-Dichloropropane	22000 U	88000	22000	ug/kg	
594-20-7	2,2-Dichloropropane	12000 U	88000	12000	ug/kg	
124-48-1	Dibromochloromethane	20000 U	88000	20000	ug/kg	
75-71-8	Dichlorodifluoromethane	24000 U	88000	24000	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	10000 U	88000	10000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	9900 U	88000	9900	ug/kg	
541-73-1	m-Dichlorobenzene	14000 U	88000	14000	ug/kg	
95-50-1	o-Dichlorobenzene	21000 U	88000	21000	ug/kg	
106-46-7	p-Dichlorobenzene	19000 U	88000	19000	ug/kg	

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	9600 U	88000	9600	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	11000 U	88000	11000	ug/kg	
100-41-4	Ethylbenzene	260000	88000	21000	ug/kg	
591-78-6	2-Hexanone	160000 U	880000	160000	ug/kg	
87-68-3	Hexachlorobutadiene	15000 U	88000	15000	ug/kg	
98-82-8	Isopropylbenzene	53600	88000	25000	ug/kg	J
99-87-6	p-Isopropyltoluene	31700	88000	29000	ug/kg	J
108-10-1	4-Methyl-2-pentanone	140000 U	880000	140000	ug/kg	
74-83-9	Methyl bromide	41000 U	88000	41000	ug/kg	
74-87-3	Methyl chloride	17000 U	88000	17000	ug/kg	
74-95-3	Methylene bromide	14000 U	88000	14000	ug/kg	
75-09-2	Methylene chloride	55000 U	220000	55000	ug/kg	
78-93-3	Methyl ethyl ketone	110000 U	880000	110000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	11000 U	88000	11000	ug/kg	
91-20-3	Naphthalene	621000	88000	44000	ug/kg	
103-65-1	n-Propylbenzene	122000	88000	23000	ug/kg	
100-42-5	Styrene	76300	88000	20000	ug/kg	J
630-20-6	1,1,1,2-Tetrachloroethane	11000 U	88000	11000	ug/kg	
71-55-6	1,1,1-Trichloroethane	14000 U	88000	14000	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	15000 U	88000	15000	ug/kg	
79-00-5	1,1,2-Trichloroethane	15000 U	88000	15000	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	11000 U	88000	11000	ug/kg	
96-18-4	1,2,3-Trichloropropane	20000 U	88000	20000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	11000 U	88000	11000	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	758000	88000	8900	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	237000	88000	21000	ug/kg	
127-18-4	Tetrachloroethylene	22000 U	88000	22000	ug/kg	
108-88-3	Toluene	532000	88000	22000	ug/kg	
79-01-6	Trichloroethylene	10000 U	88000	10000	ug/kg	
75-69-4	Trichlorofluoromethane	14000 U	88000	14000	ug/kg	
75-01-4	Vinyl chloride	13000 U	88000	13000	ug/kg	
1330-20-7	Xylene (total)	1460000	260000	61000	ug/kg	
	m,p-Xylene	1080000	180000	39000	ug/kg	
95-47-6	o-Xylene	376000	88000	22000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		59-126%
2037-26-5	Toluene-D8	97%		70-139%
460-00-4	4-Bromofluorobenzene	81%		63-138%

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	73%		54-123%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3580A	**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]	P35354.D	2	09/04/14	SC	09/04/14	OP33797	EP1703
Run #2							

	Initial Weight	Final Volume
Run #1	1.10 g	10.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
65-85-0	Benzoic acid	150000 U	450000	150000	ug/kg	
95-57-8	2-Chlorophenol	39000 U	91000	39000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	31000 U	91000	31000	ug/kg	
120-83-2	2,4-Dichlorophenol	29000 U	91000	29000	ug/kg	
105-67-9	2,4-Dimethylphenol	69300	91000	31000	ug/kg	J
51-28-5	2,4-Dinitrophenol	150000 U	450000	150000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	22000 U	180000	22000	ug/kg	
95-48-7	2-Methylphenol	88900	91000	40000	ug/kg	J
	3&4-Methylphenol	69300	91000	39000	ug/kg	J
88-75-5	2-Nitrophenol	31000 U	91000	31000	ug/kg	
100-02-7	4-Nitrophenol	26000 U	450000	26000	ug/kg	
87-86-5	Pentachlorophenol	68000 U	450000	68000	ug/kg	
108-95-2	Phenol	49100	91000	42000	ug/kg	J
95-95-4	2,4,5-Trichlorophenol	28000 U	91000	28000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	24000 U	91000	24000	ug/kg	
83-32-9	Acenaphthene	43900	91000	26000	ug/kg	J
208-96-8	Acenaphthylene	25000 U	91000	25000	ug/kg	
62-53-3	Aniline	37000 U	450000	37000	ug/kg	
120-12-7	Anthracene	23000 U	91000	23000	ug/kg	
92-87-5	Benzidine	1800000 U	3600000	1800000	ug/kg	
56-55-3	Benzo(a)anthracene	36000 U	91000	36000	ug/kg	
50-32-8	Benzo(a)pyrene	28000 U	91000	28000	ug/kg	
205-99-2	Benzo(b)fluoranthene	23000 U	91000	23000	ug/kg	
191-24-2	Benzo(g,h,i)perylene	25000 U	91000	25000	ug/kg	
207-08-9	Benzo(k)fluoranthene	40000 U	91000	40000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	28000 U	91000	28000	ug/kg	
85-68-7	Butyl benzyl phthalate	29000 U	91000	29000	ug/kg	
100-51-6	Benzyl Alcohol	36000 U	91000	36000	ug/kg	
91-58-7	2-Chloronaphthalene	27000 U	91000	27000	ug/kg	
106-47-8	4-Chloroaniline	34000 U	91000	34000	ug/kg	
86-74-8	Carbazole	29000 U	91000	29000	ug/kg	
218-01-9	Chrysene	39000 U	91000	39000	ug/kg	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3580A	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	29000 U	91000	29000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	40000 U	91000	40000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	35000 U	91000	35000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35000 U	91000	35000	ug/kg	
95-50-1	1,2-Dichlorobenzene	37000 U	91000	37000	ug/kg	
122-66-7	1,2-Diphenylhydrazine	23000 U	91000	23000	ug/kg	
541-73-1	1,3-Dichlorobenzene	32000 U	91000	32000	ug/kg	
106-46-7	1,4-Dichlorobenzene	34000 U	91000	34000	ug/kg	
121-14-2	2,4-Dinitrotoluene	29000 U	91000	29000	ug/kg	
606-20-2	2,6-Dinitrotoluene	25000 U	91000	25000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	34000 U	180000	34000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	32000 U	91000	32000	ug/kg	
132-64-9	Dibenzofuran	30000 U	91000	30000	ug/kg	
84-74-2	Di-n-butyl phthalate	29000 U	91000	29000	ug/kg	
117-84-0	Di-n-octyl phthalate	24000 U	91000	24000	ug/kg	
84-66-2	Diethyl phthalate	27000 U	91000	27000	ug/kg	
131-11-3	Dimethyl phthalate	26000 U	91000	26000	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	73000 U	91000	73000	ug/kg	
206-44-0	Fluoranthene	30000 U	91000	30000	ug/kg	
86-73-7	Fluorene	52900	91000	27000	ug/kg	J
118-74-1	Hexachlorobenzene	29000 U	91000	29000	ug/kg	
87-68-3	Hexachlorobutadiene	33000 U	91000	33000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	43000 U	450000	43000	ug/kg	
67-72-1	Hexachloroethane	33000 U	91000	33000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33000 U	91000	33000	ug/kg	
78-59-1	Isophorone	28000 U	91000	28000	ug/kg	
90-12-0	1-Methylnaphthalene	371000	91000	34000	ug/kg	
91-57-6	2-Methylnaphthalene	647000	91000	34000	ug/kg	
88-74-4	2-Nitroaniline	29000 U	91000	29000	ug/kg	
99-09-2	3-Nitroaniline	27000 U	91000	27000	ug/kg	
100-01-6	4-Nitroaniline	30000 U	180000	30000	ug/kg	
91-20-3	Naphthalene	837000	91000	33000	ug/kg	
98-95-3	Nitrobenzene	26000 U	91000	26000	ug/kg	
62-75-9	n-Nitrosodimethylamine	28000 U	91000	28000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	37000 U	91000	37000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	26000 U	91000	26000	ug/kg	
85-01-8	Phenanthrene	96200	91000	26000	ug/kg	
129-00-0	Pyrene	41000 U	91000	41000	ug/kg	
110-86-1	Pyridine	24000 U	91000	24000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33000 U	91000	33000	ug/kg	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3580A	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		26-124%
4165-62-2	Phenol-d5	0% [b]		19-106%
118-79-6	2,4,6-Tribromophenol	0% [b]		18-129%
4165-60-0	Nitrobenzene-d5	95%		18-104%
321-60-8	2-Fluorobiphenyl	120% [b]		21-114%
1718-51-0	Terphenyl-d14	129%		24-149%

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

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8151 SW846 3580A	**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	DD773031.D	1	09/06/14	FO	09/04/14	OP33826	GDD2393
Run #2							

	Initial Weight	Final Volume
Run #1	1.05 g	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	MQL	SDL	Units	Q
94-75-7	2,4-D	450 U	950	450	ug/kg	
93-72-1	2,4,5-TP (Silvex)	99 U	190	99	ug/kg	
93-76-5	2,4,5-T	65 U	190	65	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	195% [a]		30-154%

(a) Outside control limits biased high due to matrix interference. Analyte not detected in associated sample.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8081A SW846 3580A	**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	NN176451.D	5	09/08/14	SC	09/04/14	OP33792	GNN1479
Run #2	NN176497.D	5	09/08/14	SC	09/04/14	OP33792	GNN1479

	Initial Weight	Final Volume
Run #1	1.07 g	10.0 ml
Run #2	1.07 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	MQL	SDL	Units	Q
309-00-2	Aldrin	81 U	230	81	ug/kg	
319-84-6	alpha-BHC	100 U	230	100	ug/kg	
319-85-7	beta-BHC	70 U	230	70	ug/kg	
319-86-8	delta-BHC	87 U	230	87	ug/kg	
58-89-9	gamma-BHC (Lindane)	86 U	230	86	ug/kg	
5103-71-9	alpha-Chlordane	51 U	230	51	ug/kg	
5103-74-2	gamma-Chlordane	54 U	230	54	ug/kg	
60-57-1	Dieldrin	180 U	470	180	ug/kg	
72-54-8	4,4'-DDD	170 U	470	170	ug/kg	
72-55-9	4,4'-DDE	180 U	470	180	ug/kg	
50-29-3	4,4'-DDT	200 U	470	200	ug/kg	
72-20-8	Endrin	180 U	470	180	ug/kg	
1031-07-8	Endosulfan sulfate	200 U	470	200	ug/kg	
7421-93-4	Endrin aldehyde	200 U [a]	470	200	ug/kg	
53494-70-5	Endrin ketone	180 U	470	180	ug/kg	
959-98-8	Endosulfan-I	100 U	470	100	ug/kg	
33213-65-9	Endosulfan-II	190 U	470	190	ug/kg	
76-44-8	Heptachlor	69 U	230	69	ug/kg	
1024-57-3	Heptachlor epoxide	98 U	230	98	ug/kg	
72-43-5	Methoxychlor	930 U	2300	930	ug/kg	
8001-35-2	Toxaphene	1200 U	2300	1200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%	142%	27-125%
2051-24-3	Decachlorobiphenyl	91%	112%	21-130%

(a) Result is from Run# 2

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8082 SW846 3580A	**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]	MM071483.D	10	09/04/14	SC	09/04/14	OP33788	GMM473
Run #2							

	Initial Weight	Final Volume
Run #1	1.14 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	MQL	SDL	Units	Q
12674-11-2	Aroclor 1016	880 U	4400	880	ug/kg	
11104-28-2	Aroclor 1221	1800 U	4400	1800	ug/kg	
11141-16-5	Aroclor 1232	1800 U	4400	1800	ug/kg	
53469-21-9	Aroclor 1242	900 U	4400	900	ug/kg	
12672-29-6	Aroclor 1248	1000 U	4400	1000	ug/kg	
11097-69-1	Aroclor 1254	1000 U	4400	1000	ug/kg	
11096-82-5	Aroclor 1260	2300 U	4400	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	266% [b]		30-118%
2051-24-3	Decachlorobiphenyl	98%		29-122%

(a) Acid clean-up performed by method 3665A. TBA cleanup performed by method 3660. Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	TNRCC 1005 TX1005	**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	LF104310.D	25	09/04/14	ZL	09/03/14	OP33778	GLF1542
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	46100	610	330	mg/kg	
	TPH (> C12-C28)	70200	610	340	mg/kg	
	TPH (> C28-C35)	617	610	340	mg/kg	
	TPH (C6-C35)	117000	610	330	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		70-130%
98-08-8	aaa-Trifluorotoluene	0% [a]		70-130%

(a) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	224	18	2.2	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.46	0.46	0.17	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Arsenic	4.3	2.3	0.80	mg/kg	5	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Barium	26.9	18	0.023	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.063 U	0.37	0.063	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.15 J	0.37	0.023	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Calcium	1040	440	0.69	mg/kg	1	09/04/14	09/05/14	NS	SW846 6010B [3]	SW846 3050B [5]
Chromium	60.3	0.92	0.13	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Cobalt	141	4.6	0.037	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Copper	131	1.8	0.20	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Iron	22600	9.2	1.3	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Lead	193	0.28	0.20	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Magnesium	903	460	2.5	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Manganese	208	1.4	0.036	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.20	0.032	0.013	mg/kg	1	09/05/14	09/05/14	CC	SW846 7471A [2]	SW846 7471A [6]
Nickel	57.7	3.7	0.069	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Potassium	4440	460	3.9	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.1	0.46	0.17	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Silver	0.14 J	0.92	0.064	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Sodium	27700	460	1.4	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Thallium	0.22 U	0.92	0.22	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Vanadium	4.0 J	4.6	0.038	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Zinc	179	1.8	0.52	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA10104
(2) Instrument QC Batch: MA10112
(3) Instrument QC Batch: MA10115
(4) Prep QC Batch: MP24130
(5) Prep QC Batch: MP24139
(6) Prep QC Batch: MP24145

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide	2.5	0.44	0.24	mg/kg	1	09/03/14 18:19	CV	SW846 9012 M
Heat Content, BTU [a]	3740	100		BTU/lb	1	09/05/14	ANJ	ASTM D240-92
Ignitability (Flashpoint)	120			Deg. F	1	08/28/14	DP	SW846 CHAP7
Sulfide, Neutral Extraction [a]	990	3.7	3.6	mg/kg	1	09/02/14	ANJ	EPA 376.1M/9034 M
pH [b]	13.06			su	1	09/03/14	JG	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.
(b) TEMP 21.4 C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1A	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
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	E0035028.D	100	09/04/14	CF	08/29/14	OP33725	VE1582
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	6.49	D018	0.50	0.10	0.034	mg/l	
108-90-7	Chlorobenzene	0.027 U	D021	100	0.10	0.027	mg/l	
67-66-3	Chloroform	0.035 U	D022	6.0	0.10	0.035	mg/l	
56-23-5	Carbon tetrachloride	0.043 U	D019	0.50	0.10	0.043	mg/l	
75-35-4	1,1-Dichloroethylene	0.045 U	D029	0.70	0.10	0.045	mg/l	
107-06-2	1,2-Dichloroethane	0.035 U	D028	0.50	0.10	0.035	mg/l	
78-93-3	Methyl ethyl ketone	0.27 U	D035	200	1.0	0.27	mg/l	
127-18-4	Tetrachloroethylene	0.046 U	D039	0.70	0.10	0.046	mg/l	
79-01-6	Trichloroethylene	0.049 U	D040	0.50	0.10	0.049	mg/l	
75-01-4	Vinyl chloride	0.079 U	D043	0.20	0.10	0.079	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	85%		68-124%
2037-26-5	Toluene-D8	94%		80-119%
460-00-4	4-Bromofluorobenzene	97%		72-126%

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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1A	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3580A	**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]	O12003.D	1	09/04/14	GJ	09/04/14	OP33794	EO665
Run #2							

	Initial Volume	Final Volume
Run #1	1.0 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	41.5	D023	200	50	9.6	mg/l	J
	3&4-Methylphenol	33.6	D024	200	50	11	mg/l	J
87-86-5	Pentachlorophenol	100 U	D037	100	250	100	mg/l	
95-95-4	2,4,5-Trichlorophenol	9.8 U	D041	400	50	9.8	mg/l	
88-06-2	2,4,6-Trichlorophenol	11 U	D042	2.0	50	11	mg/l	
106-46-7	1,4-Dichlorobenzene	11 U	D027	7.5	50	11	mg/l	
121-14-2	2,4-Dinitrotoluene	13 U	D030	0.13	50	13	mg/l	
118-74-1	Hexachlorobenzene	16 U	D032	0.13	50	16	mg/l	
87-68-3	Hexachlorobutadiene	12 U	D033	0.50	50	12	mg/l	
67-72-1	Hexachloroethane	13 U	D034	3.0	50	13	mg/l	
98-95-3	Nitrobenzene	12 U	D036	2.0	50	12	mg/l	
110-86-1	Pyridine	13 U	D038	5.0	50	13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		10-86%
4165-62-2	Phenol-d5	0% [b]		10-83%
118-79-6	2,4,6-Tribromophenol	0% [b]		32-128%
4165-60-0	Nitrobenzene-d5	106%		29-115%
321-60-8	2-Fluorobiphenyl	100%		34-113%
1718-51-0	Terphenyl-d14	106%		23-138%

(a) Elevated reporting limits due to waste dilution; final volume 10 ml.
(b) Outside control limits due to waste 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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1A	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8151 SW846 3580A	**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	DD773019.D	1	09/06/14	FO	09/05/14	OP33827	GDD2393
Run #2							

	Initial Volume	Final Volume
Run #1	1.0 ml	10.0 ml
Run #2		

Herbicide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
94-75-7	2,4-D	0.14 U	D016	10	1.0	0.14	mg/l	
93-72-1	2,4,5-TP (Silvex)	0.040 U	D017	1.0	0.20	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	70%		40-168%

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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1A	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
Method:	SW846 8081A SW846 3580A	**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]	NN176485.D	5	09/08/14	SC	09/05/14	OP33829	GNN1479
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)	0.00086 U	D013	0.40	0.0025	0.00086	mg/l	
12789-03-6	Chlordane	0.0073 U	D020	0.030	0.025	0.0073	mg/l	
72-20-8	Endrin	0.00089 U	D012	0.020	0.0050	0.00089	mg/l	
76-44-8	Heptachlor	0.00042 U	D031	0.0080	0.0025	0.00042	mg/l	
1024-57-3	Heptachlor epoxide	0.00057 U	D031	0.0080	0.0025	0.00057	mg/l	
72-43-5	Methoxychlor	0.0064 U	D014	10	0.025	0.0064	mg/l	
8001-35-2	Toxaphene	0.0062 U	D015	0.50	0.025	0.0062	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		39-122%
2051-24-3	Decachlorobiphenyl	69%		28-123%

(a) Elevated reporting limits due to high levels of non-target analytes.

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

Report of Analysis

Client Sample ID:	VB-639		
Lab Sample ID:	TC53933-1A	**Date Sampled:**	08/27/14
Matrix:	SO - Oil	**Date Received:**	08/28/14
		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	0.57 J	D004	5.0	2.5	0.25	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Barium	1.2 J	D005	100	250	0.86	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Cadmium	0.023 U	D006	1.0	1.0	0.023	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Chromium	3.2	D007	5.0	2.5	0.068	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Lead	11.4	D008	5.0	1.3	0.45	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Mercury	0.0052	D009	0.20	0.0040	0.0010	mg/l	1	09/02/14	09/02/14	CC	SW846 7470A [1]
Selenium	0.25 U	D010	1.0	13	0.25	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Silver	0.060 U	D011	5.0	2.5	0.060	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]

(1) Instrument QC Batch: MA10095
(2) Instrument QC Batch: MA10096
(3) Prep QC Batch: MP24117
(4) Prep QC Batch: MP24125

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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8260C	**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	Y1070603.D	10	09/04/14	KS	n/a	n/a	VY3741
Run #2 [a]	X0102184.D	100	09/12/14	KS	n/a	n/a	VX2322

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	1.12 g	5.0 ml	100 ul
Run #2	1.12 g	5.0 ml	100 ul

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
67-64-1	Acetone	49300	89000	22000	ug/kg	J
71-43-2	Benzene	151000	8900	1500	ug/kg	
108-86-1	Bromobenzene	900 U	8900	900	ug/kg	
74-97-5	Bromochloromethane	2400 U	8900	2400	ug/kg	
75-27-4	Bromodichloromethane	1000 U	8900	1000	ug/kg	
75-25-2	Bromoform	1700 U	8900	1700	ug/kg	
104-51-8	n-Butylbenzene	980 U	8900	980	ug/kg	
135-98-8	sec-Butylbenzene	36200	8900	1900	ug/kg	
98-06-6	tert-Butylbenzene	1700 U	8900	1700	ug/kg	
108-90-7	Chlorobenzene	2100 U	8900	2100	ug/kg	
75-00-3	Chloroethane	3500 U	8900	3500	ug/kg	
67-66-3	Chloroform	3230	8900	960	ug/kg	J
95-49-8	o-Chlorotoluene	1100 U	8900	1100	ug/kg	
106-43-4	p-Chlorotoluene	920 U	8900	920	ug/kg	
75-15-0	Carbon disulfide	5180	8900	1300	ug/kg	J
56-23-5	Carbon tetrachloride	1900 U	8900	1900	ug/kg	
75-34-3	1,1-Dichloroethane	910 U	8900	910	ug/kg	
75-35-4	1,1-Dichloroethylene	930 U	8900	930	ug/kg	
563-58-6	1,1-Dichloropropene	1000 U	8900	1000	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	7100 U	8900	7100	ug/kg	
106-93-4	1,2-Dibromoethane	940 U	8900	940	ug/kg	
107-06-2	1,2-Dichloroethane	1100 U	8900	1100	ug/kg	
78-87-5	1,2-Dichloropropane	1300 U	8900	1300	ug/kg	
142-28-9	1,3-Dichloropropane	2300 U	8900	2300	ug/kg	
594-20-7	2,2-Dichloropropane	1200 U	8900	1200	ug/kg	
124-48-1	Dibromochloromethane	2000 U	8900	2000	ug/kg	
75-71-8	Dichlorodifluoromethane	2500 U	8900	2500	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1000 U	8900	1000	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1000 U	8900	1000	ug/kg	
541-73-1	m-Dichlorobenzene	1400 U	8900	1400	ug/kg	
95-50-1	o-Dichlorobenzene	2200 U	8900	2200	ug/kg	
106-46-7	p-Dichlorobenzene	1900 U	8900	1900	ug/kg	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Compound	Result	MQL	SDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	980 U	8900	980	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1100 U	8900	1100	ug/kg	
100-41-4	Ethylbenzene	260000	8900	2200	ug/kg	
591-78-6	2-Hexanone	17000 U	89000	17000	ug/kg	
87-68-3	Hexachlorobutadiene	1500 U	8900	1500	ug/kg	
98-82-8	Isopropylbenzene	70800	8900	2500	ug/kg	
99-87-6	p-Isopropyltoluene	30800	8900	2900	ug/kg	
108-10-1	4-Methyl-2-pentanone	14000 U	89000	14000	ug/kg	
74-83-9	Methyl bromide	4100 U	8900	4100	ug/kg	
74-87-3	Methyl chloride	1700 U	8900	1700	ug/kg	
74-95-3	Methylene bromide	1400 U	8900	1400	ug/kg	
75-09-2	Methylene chloride	5600 U	22000	5600	ug/kg	
78-93-3	Methyl ethyl ketone	11000 U	89000	11000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1100 U	8900	1100	ug/kg	
91-20-3	Naphthalene	371000	8900	4500	ug/kg	
103-65-1	n-Propylbenzene	111000	8900	2300	ug/kg	
100-42-5	Styrene	2100 U	8900	2100	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1100 U	8900	1100	ug/kg	
71-55-6	1,1,1-Trichloroethane	1400 U	8900	1400	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1500 U	8900	1500	ug/kg	
79-00-5	1,1,2-Trichloroethane	1500 U	8900	1500	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	1200 U	8900	1200	ug/kg	
96-18-4	1,2,3-Trichloropropane	2000 U	8900	2000	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	1100 U	8900	1100	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	591000 [b]	89000	9000	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	192000	8900	2100	ug/kg	
127-18-4	Tetrachloroethylene	2300 U	8900	2300	ug/kg	
108-88-3	Toluene	522000 [b]	89000	23000	ug/kg	
79-01-6	Trichloroethylene	1000 U	8900	1000	ug/kg	
75-69-4	Trichlorofluoromethane	1400 U	8900	1400	ug/kg	
75-01-4	Vinyl chloride	1300 U	8900	1300	ug/kg	
1330-20-7	Xylene (total)	1230000 [b]	270000	62000	ug/kg	
	m,p-Xylene	899000 [b]	180000	40000	ug/kg	
95-47-6	o-Xylene	354000	8900	2300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	108%	59-126%
2037-26-5	Toluene-D8	102%	111%	70-139%
460-00-4	4-Bromofluorobenzene	74%	108%	63-138%

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	75%	102%	54-123%

(a) Sample dilution required. Analyzed beyond hold time.
(b) Result is from Run# 2

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3550B	**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]	P35353.D	2	09/04/14	SC	09/04/14	OP33787	EP1703
Run #2							

	Initial Weight	Final Volume
Run #1	3.05 g	10.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
65-85-0	Benzoic acid	77200	160000	52000	ug/kg	J
95-57-8	2-Chlorophenol	14000 U	33000	14000	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	11000 U	33000	11000	ug/kg	
120-83-2	2,4-Dichlorophenol	10000 U	33000	10000	ug/kg	
105-67-9	2,4-Dimethylphenol	121000	33000	11000	ug/kg	
51-28-5	2,4-Dinitrophenol	52000 U	160000	52000	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	7800 U	66000	7800	ug/kg	
95-48-7	2-Methylphenol	212000	33000	14000	ug/kg	
	3&4-Methylphenol	196000	33000	14000	ug/kg	
88-75-5	2-Nitrophenol	11000 U	33000	11000	ug/kg	
100-02-7	4-Nitrophenol	9300 U	160000	9300	ug/kg	
87-86-5	Pentachlorophenol	24000 U	160000	24000	ug/kg	
108-95-2	Phenol	200000	33000	15000	ug/kg	
95-95-4	2,4,5-Trichlorophenol	10000 U	33000	10000	ug/kg	
88-06-2	2,4,6-Trichlorophenol	8600 U	33000	8600	ug/kg	
83-32-9	Acenaphthene	29700	33000	9400	ug/kg	J
208-96-8	Acenaphthylene	8900 U	33000	8900	ug/kg	
62-53-3	Aniline	13000 U	160000	13000	ug/kg	
120-12-7	Anthracene	11000	33000	8300	ug/kg	J
92-87-5	Benzidine	640000 U	1300000	640000	ug/kg	
56-55-3	Benzo(a)anthracene	13000 U	33000	13000	ug/kg	
50-32-8	Benzo(a)pyrene	10000 U	33000	10000	ug/kg	
205-99-2	Benzo(b)fluoranthene	8300 U	33000	8300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	8900 U	33000	8900	ug/kg	
207-08-9	Benzo(k)fluoranthene	14000 U	33000	14000	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	10000 U	33000	10000	ug/kg	
85-68-7	Butyl benzyl phthalate	11000 U	33000	11000	ug/kg	
100-51-6	Benzyl Alcohol	13000 U	33000	13000	ug/kg	
91-58-7	2-Chloronaphthalene	9600 U	33000	9600	ug/kg	
106-47-8	4-Chloroaniline	12000 U	33000	12000	ug/kg	
86-74-8	Carbazole	12100	33000	10000	ug/kg	J
218-01-9	Chrysene	14000 U	33000	14000	ug/kg	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3550B	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Compound	Result	MQL	SDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	10000 U	33000	10000	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	14000 U	33000	14000	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	13000 U	33000	13000	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	13000 U	33000	13000	ug/kg	
95-50-1	1,2-Dichlorobenzene	13000 U	33000	13000	ug/kg	
122-66-7	1,2-Diphenylhydrazine	8300 U	33000	8300	ug/kg	
541-73-1	1,3-Dichlorobenzene	12000 U	33000	12000	ug/kg	
106-46-7	1,4-Dichlorobenzene	12000 U	33000	12000	ug/kg	
121-14-2	2,4-Dinitrotoluene	10000 U	33000	10000	ug/kg	
606-20-2	2,6-Dinitrotoluene	9000 U	33000	9000	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	12000 U	66000	12000	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	11000 U	33000	11000	ug/kg	
132-64-9	Dibenzofuran	20500	33000	11000	ug/kg	J
84-74-2	Di-n-butyl phthalate	10000 U	33000	10000	ug/kg	
117-84-0	Di-n-octyl phthalate	8700 U	33000	8700	ug/kg	
84-66-2	Diethyl phthalate	9600 U	33000	9600	ug/kg	
131-11-3	Dimethyl phthalate	9400 U	33000	9400	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	26000 U	33000	26000	ug/kg	
206-44-0	Fluoranthene	11000 U	33000	11000	ug/kg	
86-73-7	Fluorene	51100	33000	9800	ug/kg	
118-74-1	Hexachlorobenzene	11000 U	33000	11000	ug/kg	
87-68-3	Hexachlorobutadiene	12000 U	33000	12000	ug/kg	
77-47-4	Hexachlorocyclopentadiene	16000 U	160000	16000	ug/kg	
67-72-1	Hexachloroethane	12000 U	33000	12000	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	12000 U	33000	12000	ug/kg	
78-59-1	Isophorone	10000 U	33000	10000	ug/kg	
90-12-0	1-Methylnaphthalene	463000	33000	12000	ug/kg	
91-57-6	2-Methylnaphthalene	431000	33000	12000	ug/kg	
88-74-4	2-Nitroaniline	10000 U	33000	10000	ug/kg	
99-09-2	3-Nitroaniline	9600 U	33000	9600	ug/kg	
100-01-6	4-Nitroaniline	11000 U	66000	11000	ug/kg	
91-20-3	Naphthalene	470000	33000	12000	ug/kg	
98-95-3	Nitrobenzene	9400 U	33000	9400	ug/kg	
62-75-9	n-Nitrosodimethylamine	10000 U	33000	10000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	13000 U	33000	13000	ug/kg	
86-30-6	N-Nitrosodiphenylamine	9300 U	33000	9300	ug/kg	
85-01-8	Phenanthrene	86600	33000	9300	ug/kg	
129-00-0	Pyrene	22800	33000	15000	ug/kg	J
110-86-1	Pyridine	8700 U	33000	8700	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	12000 U	33000	12000	ug/kg	

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3550B	**Percent Solids:**	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25% [b]		26-124%
4165-62-2	Phenol-d5	58%		19-106%
118-79-6	2,4,6-Tribromophenol	22%		18-129%
4165-60-0	Nitrobenzene-d5	59%		18-104%
321-60-8	2-Fluorobiphenyl	94%		21-114%
1718-51-0	Terphenyl-d14	107%		24-149%

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

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8151 SW846 3550B	**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	DD773082.D	25	09/08/14	FO	09/03/14	OP33773	GDD2393
Run #2							

	Initial Weight	Final Volume
Run #1	3.01 g	10.0 ml
Run #2		

Herbicide List

CAS No.	Compound	Result	MQL	SDL	Units	Q
94-75-7	2,4-D	3900 U	8300	3900	ug/kg	
93-72-1	2,4,5-TP (Silvex)	860 U	1700	860	ug/kg	
93-76-5	2,4,5-T	560 U	1700	560	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	642% [a]		30-154%

(a) Outside control limits biased high due to matrix interference. Analyte not detected in associated sample.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8081A SW846 3550B	**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	NN176342.D	25	09/05/14	SC	09/03/14	OP33770	GNN1476
Run #2 [a]	NN176450.D	25	09/08/14	SC	09/03/14	OP33770	GNN1479

	Initial Weight	Final Volume
Run #1	30.0 g	10.0 ml
Run #2	3.34 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	MQL	SDL	Units	Q
309-00-2	Aldrin	14 U	42	14	ug/kg	
319-84-6	alpha-BHC	18 U	42	18	ug/kg	
319-85-7	beta-BHC	12 U	42	12	ug/kg	
319-86-8	delta-BHC	15 U	42	15	ug/kg	
58-89-9	gamma-BHC (Lindane)	15 U	42	15	ug/kg	
5103-71-9	alpha-Chlordane	9.1 U	42	9.1	ug/kg	
5103-74-2	gamma-Chlordane	9.7 U	42	9.7	ug/kg	
60-57-1	Dieldrin	33 U	83	33	ug/kg	
72-54-8	4,4'-DDD	30 U	83	30	ug/kg	
72-55-9	4,4'-DDE	31 U	83	31	ug/kg	
50-29-3	4,4'-DDT	320 U [b]	750	320	ug/kg	
72-20-8	Endrin	32 U	83	32	ug/kg	
1031-07-8	Endosulfan sulfate	36 U	83	36	ug/kg	
7421-93-4	Endrin aldehyde	35 U	83	35	ug/kg	
53494-70-5	Endrin ketone	33 U	83	33	ug/kg	
959-98-8	Endosulfan-I	18 U	83	18	ug/kg	
33213-65-9	Endosulfan-II	136	83	34	ug/kg	
76-44-8	Heptachlor	12 U	42	12	ug/kg	
1024-57-3	Heptachlor epoxide	17 U	42	17	ug/kg	
72-43-5	Methoxychlor	1500 U [b]	3700	1500	ug/kg	
8001-35-2	Toxaphene	210 U	420	210	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [c]	931% [c]	27-125%
2051-24-3	Decachlorobiphenyl	0% [c]	48%	21-130%

(a) TBA clean-up performed by method 3660B.
(b) Result is from Run# 2
(c) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8082 SW846 3550B	**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]	MM071508.D	25	09/05/14	SC	09/03/14	OP33769	GMM474
Run #2							

	Initial Weight	Final Volume
Run #1	3.34 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	MQL	SDL	Units	Q
12674-11-2	Aroclor 1016	750 U	3700	750	ug/kg	
11104-28-2	Aroclor 1221	1500 U	3700	1500	ug/kg	
11141-16-5	Aroclor 1232	1500 U	3700	1500	ug/kg	
53469-21-9	Aroclor 1242	770 U	3700	770	ug/kg	
12672-29-6	Aroclor 1248	890 U	3700	890	ug/kg	
11097-69-1	Aroclor 1254	870 U	3700	870	ug/kg	
11096-82-5	Aroclor 1260	1900 U	3700	1900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	0% [b]		30-118%
2051-24-3	Decachlorobiphenyl	79%		29-122%

(a) Dilution required due to matrix interference.
(b) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation 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:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	TNRCC 1005 TX1005	**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	VB14707.D	25	09/03/14	ZL	09/02/14	OP33760	GVB343
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

CAS No.	Compound	Result	MQL	SDL	Units	Q
	TPH (C6-C12)	36500	610	330	mg/kg	
	TPH (> C12-C28)	89100	610	340	mg/kg	
	TPH (> C28-C35)	2380	610	340	mg/kg	
	TPH (C6-C35)	128000	610	330	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	126%		70-130%
98-08-8	aaa-Trifluorotoluene	130%		70-130%

U = Not detected SDL = Sample Detection Limit J = Indicates an estimated value
MQL = Method Quantitation Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

Metals Analysis

Analyte	Result	MQL	SDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	1360	17	2.1	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Antimony	0.58	0.42	0.15	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Arsenic	4.3	2.1	0.74	mg/kg	5	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Barium	71.4	17	0.021	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Beryllium	0.058 U	0.34	0.058	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Cadmium	0.15 J	0.34	0.021	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Calcium [a]	7110	1300	2.1	mg/kg	5	09/04/14	09/05/14	NS	SW846 6010B [3]	SW846 3050B [5]
Chromium	53.5	0.85	0.12	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Cobalt	119	4.2	0.034	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Copper	130	1.7	0.19	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Iron	18200	8.5	1.2	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Lead	148	0.25	0.19	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Magnesium	960	420	2.3	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Manganese	167	1.3	0.033	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Mercury	0.59	0.033	0.013	mg/kg	1	09/05/14	09/05/14	CC	SW846 7471A [2]	SW846 7471A [6]
Nickel	55.7	3.4	0.064	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Potassium	1550	420	3.6	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Selenium	1.1	0.42	0.16	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Silver	0.22 J	0.85	0.058	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Sodium	30800	420	1.3	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Thallium [b]	0.99 U	4.2	0.99	mg/kg	5	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Vanadium	3.4 J	4.2	0.035	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]
Zinc	199	1.7	0.48	mg/kg	1	09/03/14	09/03/14	NS	SW846 6010B [1]	SW846 3050B [4]

(1) Instrument QC Batch: MA10104
(2) Instrument QC Batch: MA10112
(3) Instrument QC Batch: MA10115
(4) Prep QC Batch: MP24130
(5) Prep QC Batch: MP24139
(6) Prep QC Batch: MP24145

(a) Elevated reporting limit due to dilution required for high interfering element.
(b) Elevated reporting limit due to dilution required for matrix interference.

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
		Percent Solids:	n/a
Project:	CES- Chemical Spill/4904 Griggs, Houston, TX		

General Chemistry

Analyte	Result	MQL	SDL	Units	DF	Analyzed	By	Method
Cyanide	0.81	0.46	0.26	mg/kg	1	09/03/14 18:21	CV	SW846 9012 M
Heat Content, BTU [a]	3340	100		BTU/lb	1	09/05/14	ANJ	ASTM D240-92
Ignitability (Flashpoint)	> 200			Deg. F	1	08/28/14	DP	SW846 CHAP7
Sulfide, Neutral Extraction [a]	4970	4.0	3.8	mg/kg	1	09/02/14	ANJ	EPA 376.1M/9034 M
pH [b]	11.61			su	1	09/03/14	JG	SW846 9045C

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.
(b) TEMP 21.1 C

MQL = Method Quantitation Limit
SDL = Sample Detection Limit

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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2A	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
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	E0035067.D	100	09/05/14	CF	08/29/14	OP33725	VE1585
Run #2	E0035068.D	1000	09/05/14	CF	08/29/14	OP33725	VE1585

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

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

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
71-43-2	Benzene	21.5 [a]	D018	0.50	1.0	0.34	mg/l	
108-90-7	Chlorobenzene	0.027 U	D021	100	0.10	0.027	mg/l	
67-66-3	Chloroform	0.035 U	D022	6.0	0.10	0.035	mg/l	
56-23-5	Carbon tetrachloride	0.043 U	D019	0.50	0.10	0.043	mg/l	
75-35-4	1,1-Dichloroethylene	0.045 U	D029	0.70	0.10	0.045	mg/l	
107-06-2	1,2-Dichloroethane	0.035 U	D028	0.50	0.10	0.035	mg/l	
78-93-3	Methyl ethyl ketone	0.27 U	D035	200	1.0	0.27	mg/l	
127-18-4	Tetrachloroethylene	0.128	D039	0.70	0.10	0.046	mg/l	
79-01-6	Trichloroethylene	0.049 U	D040	0.50	0.10	0.049	mg/l	
75-01-4	Vinyl chloride	0.079 U	D043	0.20	0.10	0.079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	91%	72-122%
17060-07-0	1,2-Dichloroethane-D4	78%	85%	68-124%
2037-26-5	Toluene-D8	96%	92%	80-119%
460-00-4	4-Bromofluorobenzene	103%	98%	72-126%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2A	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8270D SW846 3580A	**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]	O12002.D	1	09/04/14	GJ	09/04/14	OP33794	EO665
Run #2							

	Initial Volume	Final Volume
Run #1	1.0 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	113	D023	200	50	9.6	mg/l	
	3&4-Methylphenol	93.5	D024	200	50	11	mg/l	
87-86-5	Pentachlorophenol	100 U	D037	100	250	100	mg/l	
95-95-4	2,4,5-Trichlorophenol	9.8 U	D041	400	50	9.8	mg/l	
88-06-2	2,4,6-Trichlorophenol	11 U	D042	2.0	50	11	mg/l	
106-46-7	1,4-Dichlorobenzene	11 U	D027	7.5	50	11	mg/l	
121-14-2	2,4-Dinitrotoluene	13 U	D030	0.13	50	13	mg/l	
118-74-1	Hexachlorobenzene	16 U	D032	0.13	50	16	mg/l	
87-68-3	Hexachlorobutadiene	12 U	D033	0.50	50	12	mg/l	
67-72-1	Hexachloroethane	13 U	D034	3.0	50	13	mg/l	
98-95-3	Nitrobenzene	12 U	D036	2.0	50	12	mg/l	
110-86-1	Pyridine	13 U	D038	5.0	50	13	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	0% [b]		10-86%
4165-62-2	Phenol-d5	17%		10-83%
118-79-6	2,4,6-Tribromophenol	0% [b]		32-128%
4165-60-0	Nitrobenzene-d5	192% [b]		29-115%
321-60-8	2-Fluorobiphenyl	157% [b]		34-113%
1718-51-0	Terphenyl-d14	186% [b]		23-138%

(a) Elevated reporting limits due to waste dilution; final volume 10 ml.
(b) Outside control limits due to waste 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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2A	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8151 SW846 3580A	**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	DD773021.D	1	09/06/14	FO	09/05/14	OP33827	GDD2393
Run #2							

	Initial Volume	Final Volume
Run #1	1.0 ml	10.0 ml
Run #2		

Herbicide TCLP Leachate **TCLP Leachate method SW846 1311**

CAS No.	Compound	Result	HW#	MCL	MQL	SDL	Units	Q
94-75-7	2,4-D	0.14 U	D016	10	1.0	0.14	mg/l	
93-72-1	2,4,5-TP (Silvex)	0.040 U	D017	1.0	0.20	0.040	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	63%		40-168%

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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2A	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
Method:	SW846 8081A SW846 3580A	**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]	NN176488.D	25	09/08/14	SC	09/05/14	OP33829	GNN1479
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)	0.0043 U	D013	0.40	0.013	0.0043	mg/l	
12789-03-6	Chlordane	0.037 U	D020	0.030	0.13	0.037	mg/l	
72-20-8	Endrin	0.0045 U	D012	0.020	0.025	0.0045	mg/l	
76-44-8	Heptachlor	0.0021 U	D031	0.0080	0.013	0.0021	mg/l	
1024-57-3	Heptachlor epoxide	0.0028 U	D031	0.0080	0.013	0.0028	mg/l	
72-43-5	Methoxychlor	0.032 U	D014	10	0.13	0.032	mg/l	
8001-35-2	Toxaphene	0.031 U	D015	0.50	0.13	0.031	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	1149% [b]		39-122%
2051-24-3	Decachlorobiphenyl	82%		28-123%

(a) Elevated reporting limits due to high levels of non-target analytes.
(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

Report of Analysis

Client Sample ID:	VB-618		
Lab Sample ID:	TC53933-2A	**Date Sampled:**	08/28/14
Matrix:	SO - Sludge	**Date Received:**	08/28/14
		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	1.8 J	D004	5.0	2.5	0.25	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Barium	10.4 J	D005	100	250	0.86	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Cadmium	0.11 J	D006	1.0	1.0	0.023	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Chromium	12.8	D007	5.0	2.5	0.068	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Lead	37.8	D008	5.0	1.3	0.45	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Mercury	0.020	D009	0.20	0.0040	0.0010	mg/l	1	09/02/14	09/02/14	CC	SW846 7470A [1]
Selenium	0.25 U	D010	1.0	13	0.25	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]
Silver	0.060 U	D011	5.0	2.5	0.060	mg/l	5	08/29/14	09/02/14	NS	SW846 6010B [2]

(1) Instrument QC Batch: MA10095
(2) Instrument QC Batch: MA10096
(3) Prep QC Batch: MP24117
(4) Prep QC Batch: MP24125

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

CHAIN OF CUSTODY

PAGE 1 OF 1

10165 Harwin Dr, 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 #: TC53933

Client / Reporting Information

Company Name: Weston Solutions, Inc.
Street Address: 5599 San Felipe, Suite 700
City / State / Zip: Houston, TX 77056
Project Contact / E-mail: Tom Walzer/Kristi Warr
Phone # / Fax #:
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: CES -
Street: 4904 Griggs
City / State: Houston TX
Project #:
Client Purchase Order #:
Project Manager: Derrick Cobb

Billing Information (if different from Report to)
Company Name: Weston Solutions
Street Address: 5599 San Felipe Suite 700
City / State / Zip: Houston, TX 77056
Attention: Kristi Warr

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	EnCORE	OTHER	Total/TCLP VOCs	Total/TCLP SVOCs	Total/TCLP Metal & Hg	Total/TCLP Pesticides	Total/TCLP Herbicides	PCBs	TPHs	Total Cyanides	Total Sulfides	Flash Point/Ignitability	PH and BTU	LAB USE ONLY
1	VB-639	8/27/14	1435	DC	OI	2													X	X	X	X	X	X	X	X	X	X	X	
2	VB-618	8/28/14	0930	DC	OI	2													X	X	X	X	X	X	X	X	X	X	X	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Turnaround Time (Business days)
- Standard
- 5 Day *RUSH*
- 4 Day *RUSH*
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULT1 (Level 3+4)
- REDT1 (Level 3+4)
- Commercial "C"
- TRRP
- EDD Format
- Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/28/14 1405	1	2 1408	8/28/14 1438	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp.

TC53933: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: TC53933 **Client:** WESTON SOLUTIONS **Project:** CES

Date / Time Received: 8/28/2014 **Delivery Method:** **Airbill #'s:**

No. Coolers: 1 **Therm ID:** IR-5; **Temp Adjustment Factor:** 0;

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (Bag)	

Quality Control Preservation	Y	N	N/A	WTB	STB
1. Trip Blank present / cooler:	☐	☐	☑	☐	☐
2. Trip Blank listed on COC:	☐	☐	☑		
3. Samples preserved properly:	☑	☐			
4. VOCs headspace free:	☐	☐	☑		

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

Accutest Laboratories
V:713.271.4700
10165 Harwin Drive
F: 713.271.4770
Houston, TX 77036
www/accutest.com

Sample Receipt Log

Job #: TC53933 **Date / Time Received:** 8/28/2014 2:38:00 PM **Initials:** RE

Client: WESTON SOLUTIONS

Cooler #	Sample ID:	Vol	Bot #	Location	Pres	pH	Therm ID	Initial Temp	Therm CF	Corrected Temp
1	TC53933-1	32oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR-5	1.8	0	1.8
1	TC53933-1	32oz	2	2-98	N/P	Note #2 - Preservative check not applicable.	IR-5	1.8	0	1.8
1	TC53933-2	32oz	1	2-98	N/P	Note #2 - Preservative check not applicable.	IR-5	1.8	0	1.8
1	TC53933-2	32oz	2	2-98	N/P	Note #2 - Preservative check not applicable.	IR-5	1.8	0	1.8