STELLAR
ENVIRONMENTAL SOLUTIONS, INC.
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GEOSCIENCE & ENGINEERING CONSULTING

RECEIVED
1:39 pm, Apr 06, 2009
Alameda County
Environmental Health

April 2, 2009

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health Department
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: First Semi-Annual 2009 Groundwater Monitoring Letter Report
Oakland Auto Works Facility – 240 W. MacArthur Boulevard, Oakland, California
Alameda County Environmental Health Department Fuel Leak Case No. RO0000142

Dear Mr. Wickham:

Enclosed is the Stellar Environmental Solutions, Inc. (SES) report summarizing recent activities conducted at the referenced site. This report summarizes the findings of the First Semi-Annual 2009 groundwater monitoring event (the 42nd site groundwater monitoring event since August 1997).

Quarterly groundwater monitoring conducted since August 1997 has adequately shown the groundwater and contaminant trends. Subsequently, as of January 2009, Alameda County Environmental Health Department (ACEH) in concurrence with SES has reduced the monitoring frequency from a quarterly to a semi-annual basis with abbreviated reporting in Q1 and an annual summary to be completed in Q3. The hydrologic regime and groundwater contaminant plume geometry is typical of what has been observed in previous monitoring events.

This report was uploaded to both the State Water Board's GeoTracker system and the ACEH electronic upload "ftp" system. We declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions regarding this report, please contact us at (510) 644-3123.

Sincerely,

Teal Glass, R.E.A.
Project Scientist

Henry Pietropaoli, R.G., R.E.A.
Project Manager

cc: Mr. Glen Poy-Wing, property owner and Responsible Party
Attachments: Figure 1 Site Location Map; Figure 2 Site Plan Map;
Tables 1, 2 and 3;
Field sampling reports, certified analytical laboratory report and COC record

FIGURES

Site Location Map
Site Plan Map

SITE LOCATION ON U.S.G.S. TOPOGRAPHIC MAP

240 W. MacArthur Blvd. Oakland, CA	By: MJC	APRIL 2007
	Figure 1	

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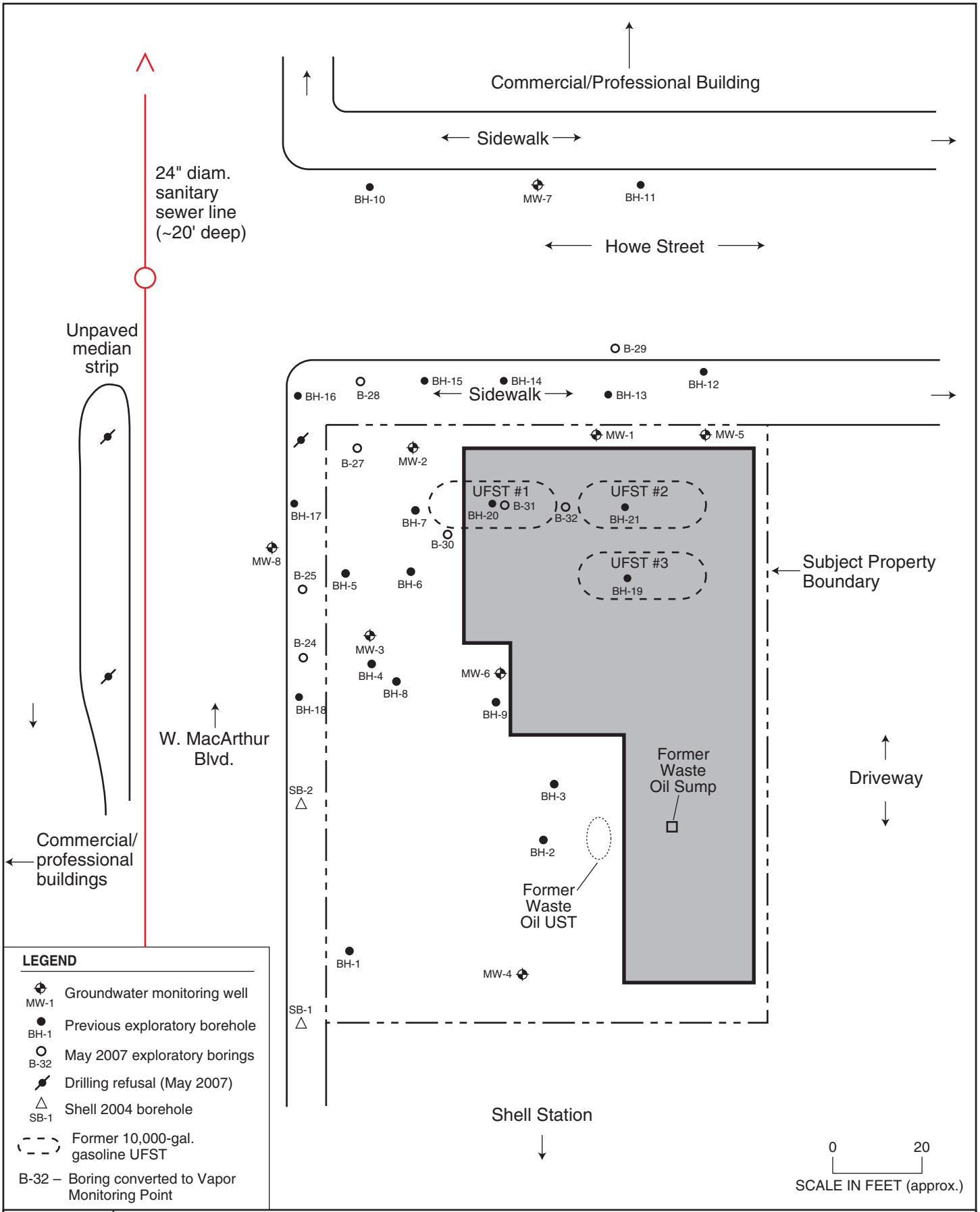
2003-43-01



SITE PLAN WITH BOREHOLE AND GROUNDWATER WELL LOCATIONS

240 W. MacArthur Blvd. Oakland, CA	By: MJC	JUNE 2007
	Figure 2	

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2003-43-155

TABLES

Groundwater Monitoring Elevation and Well Analytical Data

Table 1
Groundwater Monitoring Well Construction and Groundwater Elevation Data
240 W. MacArthur Boulevard, Oakland, California

Well	Well Depth (feet bgs)	Well Screened Interval		Groundwater Level Depth [(a)] March 17, 2009	Groundwater Elevation [(b)] March 17, 2009
		Depth (feet)	Elevation (feet)		
MW-1	25	19.5 to 24.5	54.5 to 49.5	14.93	64.22
MW-2	25	14.5 to 24.5	64.2 to 54.2	14.45	64.00
MW-3	25	14.5 to 24.5	63.4 to 53.4	13.68	63.90
MW-4	25	14.5 to 24.5	63.6 to 53.6	13.30	64.44
MW-5	20	9 to 19	70.6 to 60.6	15.02	64.34
MW-6	20	9 to 19	69.7 to 59.7	14.32	64.11
MW-7	20	9 to 19	69.6 to 59.6	14.30	63.97
MW-8	20	9 to 19	67.7 to 57.7	12.60	63.79

Notes:

[(a)] Pre-purge measurement, feet below top of well casing.

[(b)] Pre-purge measurement, feet above mean sea level

NR = not recorded (dry or only residual water in silt trap)

Table 2
Groundwater Sample Analytical Results –March 17, 2009
Hydrocarbons, BTEX, and MTBE

Well	TVHg	TEHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1	**9,200**	**5,200**	**84**	**6.4**	29	**54**	1.0
MW-2	**2,200**	**1,600**	**22**	**2.6**	**10**	**15.7**	**17**
MW-3	**1,100**	**5,100**	**41**	0.6	2.4	3.0	**44**
MW-4	**81**	NA	NA	NA	NA	NA	NA
MW-5	**9,700**	**9,000**	**140**	**34**	**38**	**280**	*<1.7*
MW-6	**740**	**3,300**	**14**	*<0.5*	1.6	8.6	2.6
MW-7	*<50*	NM	NM	NM	NM	NM	NM
MW-8	**110**	**1,000**	*<0.5*	*<0.5*	*<0.5*	*<0.5*	**5.2**
ESLs							
	100 / 210	100 / 210	1.0 / 46	4.0 / 130	30 / 43	20 / 100	5.0 / 1,800

Notes:

ESLs = Water Board Environmental Screening Levels for commercial/industrial sites where groundwater *is/is not* a potential drinking water resource
MTBE = methyl *tertiary*-butyl ether; TEHd = total extractable hydrocarbons - diesel range; TVHg = total volatile hydrocarbons - gasoline range
NA = not analyzed for this contaminant; NS = not sampled
All concentrations are expressed in micrograms per liter (µg/L), equivalent to parts per billion (ppb).
Samples in **bold-face** type exceed the ESL commercial/industrial criterion where groundwater is considered a potential drinking water resource.

Table 3
Groundwater Sample Analytical Results – March 17, 2009
Lead Scavengers and Fuel Oxygenates

Well	EDC	DIPE	TBA
MW-1	**2.3**	*<0.5*	**21**
MW-2	**1.1**	2.2	**22**
MW-3	**1.8**	2.8	**41**
MW-4	NM	NM	NM
MW-5	**2.1**	*<1.7*	**33**
MW-6	**4.7**	0.6	*<10*
MW-7	NM	NM	NM
MW-8	*<0.5*	2.5	**34**
ESLs	0.5 / 690	NLP	12 / 18,000

Notes:
ESLs = Water Board Environmental Screening Levels for commercial/industrial sites where groundwater *is/is not* considered a drinking water resource.
Samples in **bold-face** type exceed the ESL commercial/industrial criterion where groundwater is considered a potential drinking water resource.
DIPE = isopropyl ether; EDC = ethylene dichloride (1,2-dichloroethane); TBA = *tertiary*-butyl alcohol
The table includes only detected fuel oxygenates and lead scavengers; contaminants analyzed for and not detected include EDB, ETBE, and TAME.
NA = not analyzed for this contaminant; NS = not sampled; NLP = no level published.
All concentrations are expressed in micrograms per liter (µg/L), equivalent to parts per billion (ppb)

Field Sampling Report,
Certified Laboratory Analytical Report
and Chain-of Custody Record

WELL GAUGING DATA

Project # 090317-J01 Date 3/17/09 Client Stellar

Site 240 W. MacArthur Blvd, Oakland, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-4	0812	2					13.30	23.80		
MW-7	0816	2					14.30	20.02		
MW-8	0819	2					12.60	19.90		
MW-6	0822	2					14.32	20.16		
MW-2	0825	2					14.45	24.34		
MW-3	0828	2					13.68	24.26		
MW-1	0831	2	NO SPH Detected				14.93	24.36		
MW-5	0835	2					15.02	20.11	↓	

WELLHEAD INSPECTION CHECKLIST

Date 3/17/09 Client Stellar

Site Address 240 W. MacArthur Blvd. Oakland, CA

Job Number 090317-J01 Technician JO/CM

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
mw-1		2/2	Bolts	missing				
mw-2	X	X						
mw-3		2/2	tabs	stripped				
mw-4		2/2	tabs	stripped				
mw-5		2/2	bolts	missing				
mw-6		X						
mw-7	X	X						
mw-8			1/2	Bolts	missing			

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	STELLAR @ ~~[illegible]~~ OAKLAND AUTO WORKS			PROJECT NUMBER	090317-J01		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myron L Ultra meter II	6222814	0800 3/17/09	PH 4 7 10 3900 uS	4 7 10 3897 uS	yes ↓	63.8 °F	JD
Hach Turbidimeter	07090C025914	0800 3/17/09	5/500/800	4.8/489/791	yes	63.9 °F	JD

ELL MONITORING DATA SHEET

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.36	Depth to Water (DTW): 14.93
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.82	

Purge Method: Bailer; ☒ Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ☒ Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.5 (Gals.) X 3 = 4.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1240	65.6	6.54	587	294	1.5	odor
1245	65.2	6.58	585	528	3.0	odor
1300	65.2	6.53	579	834	4.5	odor

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 3/17/09 Sampling Time: 1305 Depth to Water: 16.35

Sample I.D.: MW-1 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

...LL MONITORING DATA SH... T

Project #: 090317-JOL	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.34	Depth to Water (DTW): 14.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.43	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.6 (Gals.) X 3 = 4.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1032	67.5	6.68	692	118	1.6	
1036	67.4	6.57	691	148	3.2	
1040	66.9	6.59	684	180	4.8	

Did well dewater? Yes (No) Gallons actually evacuated: 4.8

Sampling Date: 3/17/09 Sampling Time: 1045 Depth to Water: 14.65

Sample I.D.: MW-2 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.26	Depth to Water (DTW): 13.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.80	

Purge Method: Bailer / ~~Disposable Bailer~~ / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Dedicated Tubing / Other: _____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1110	68.1	6.65	772	219	1.7	odor
1114	67.9	6.63	805	152	2.4	odor
1118	68.1	6.61	840	198	5.1	odor

Did well dewater? Yes (No) Gallons actually evacuated: 5.1

Sampling Date: 3/17/09 Sampling Time: 1125 Depth to Water: 13.68

Sample I.D.: MW-3 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

LL MONITORING DATA SH T

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 23.80	Depth to Water (DTW): 13.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.40	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0910	64.5	6.82	520	151	1.7	
0913	65.7	6.55	519	453	2.4	
0915	66.1	6.53	512	553	5.1	

Did well dewater? Yes (No) Gallons actually evacuated: 5.1

Sampling Date: 3/17/09 Sampling Time: 0920 Depth to Water: 14.87

Sample I.D.: MW-4 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.11	Depth to Water (DTW): 15.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.04	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

0.8 (Gals.) X 3 = 2.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0848	62.5	6.51	607	100	0.8	odor
0851	63.3	6.46	598	271	1.6	odor
0854	63.4	6.44	593	151	2.4	odor

Did well dewater? Yes (No) Gallons actually evacuated: 2.4

Sampling Date: 3/17/09 Sampling Time: 0900 Depth to Water: 15.31

Sample I.D.: MW-5 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.16	Depth to Water (DTW): 14.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.49	

Purge Method: Bailer; X Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; X Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

0.9 (Gals.) X	3 =	2.7 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0955	66.9	6.49	1043	188	0.9	
0957	67.3	6.48	1069	172	1.8	
0959	67.1	6.52	1074	387	2.7	

Did well dewater? Yes (No) Gallons actually evacuated: 2.7

Sampling Date: 3/17/09 Sampling Time: 1005 Depth to Water: 15.32

Sample I.D.: MW-6 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.02	Depth to Water (DTW): 14.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.44	

Purge Method: Bailer / ✕Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / ✕Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

0.9 (Gals.) X 3 = 2.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0932	65.2	6.58	949	313	0.9	
0934	65.2	6.57	966	394	1.8	
0936	65.3	6.60	968	400	2.7	

Did well dewater? Yes (No) Gallons actually evacuated: ~~15.38~~ 2.7

Sampling Date: 3/17/09 Sampling Time: 0940 Depth to Water: 15.38

Sample I.D.: MW-7 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

...LL MONITORING DATA SH...T

Project #: 090317-J01	Client: Stellar
Sampler: JO/CM	Date: 3/17/09
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.90	Depth to Water (DTW): 12.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.06	

Purge Method: Bailer / ~~Disposable Bailer~~ / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Dedicated Tubing / Other: _____

1.2 (Gals.) X 3 = 3.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0953	65.2	6.86	560	>1000	1.2	
0956	66.0	6.82	579	>1000	2.4	
0959	66.2	6.79	601	>1000	3.6	

Did well dewater? Yes (No) Gallons actually evacuated: 3.6

Sampling Date: 3/17/09 Sampling Time: 1010 Depth to Water: 14.00

Sample I.D.: MW-8 Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See C.O.C.

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

H or Purge Water Drum L

Client: Stellar

Site Address: 240 W. MacArthur Blvd Oakland CA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	12/1/08	12/12/08	3/17/09			
Number of drum(s) empty:	2	1	1			
Number of drum(s) 1/4 full:	0	1	1			
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	1	1	1			
Total drum(s) on site:	3	3	3			
Are the drum(s) properly labeled?	Y	Y	Y			
Drum ID & Contents:	Purge H2O	Purge H2O	Purge H2O			
If any drum(s) are partially or totally filled, what is the first use date:	NA	NA	NA			

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	12/11/08	12/12/08				
Number of drums empty:	1	1	1			
Number of drum(s) 1/4 full:	1	1				
Number of drum(s) 1/2 full:			1			
Number of drum(s) 3/4 full:						
Number of drum(s) full:	1	1	1			
Total drum(s) on site:	3	3	3			
Are the drum(s) properly labeled?	Y	Y	Y			
Drum ID & Contents:	Purge H2O	Purge H2O	Purge H2O			

LOCATION OF DRUM(S)
Describe location of drum(s):

FINAL STATUS						
Number of new drum(s) left on site this event	0	0	0			
Date of inspection:	12/11/08	12/12/08	3/12/09			
Drum(s) labelled properly:	Y	Y	Y			
Logged by BTS Field Tech:	JD	JD	JD			
Office reviewed by:						


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 210760
ANALYTICAL REPORT

Stellar Environmental Solutions	Project : 2003-43
2198 6th Street	Location : Oakland Auto Works
Berkeley, CA 94710	Level : II

Sample ID	Lab ID
MW-1	210760-001
MW-2	210760-002
MW-3	210760-003
MW-4	210760-004
MW-5	210760-005
MW-6	210760-006
MW-7	210760-007
MW-8	210760-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/01/2009
Project Manager

Signature: _____ Date: 04/02/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**210760**
Client:	**Stellar Environmental Solutions**
Project:	**2003-43**
Location:	**Oakland Auto Works**
Request Date:	**03/18/09**
Samples Received:	**03/18/09**

This data package contains sample and QC results for eight water samples, requested for the above referenced project on 03/18/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in MW-1 (lab # 210760-001), MW-2 (lab # 210760-002), and the MS/MSD of MW-1 (lab # 210760-001). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Matrix spikes were not performed for this analysis in batch 149084 due to insufficient sample amount. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
MW-5 (lab # 210760-005) was diluted due to high non-target analytes. No other analytical problems were encountered.

210760

Chain of Custody Record

Lab job no. 640317-101
Date 3/17/09
Page 1 of 1

Laboratory: Curtis and Tompkins, Ltd.
Address: 2323 Fifth Street, Berkeley, California 94710, 510-486-0900

Method of Shipment: Hand Delivery
Shipment No.:
Airbill No.:
Cooler No.:
Project Manager: Richard Makdisi
Telephone No.: (510) 644-3123
Fax No.: (510) 644-3859
Samplers: (Signature)

Project Owner: Mr. Glen Poywing
Site Address: 240 W. MacArthur Blvd, Oakland, CA 94612
Project Name: Oakland Autoworks
Project Number: 2003-43

Field Sample Number	Location/ Depth	Date	Time	Sample Type	Type/Size of Container	Preservation: Cooler	Preservation: Chemical	Filtered	No. of Containers	TVH - gas (8015m)	TEH - Diesel (8015m)	BTEX	MTBE	EDB	EDC	5 Fuel Oxygenates	Remarks
MW-1	16.35	3/17	1305	W	6 HCl VOAs 2 NP 1L Ambers	yes	HCl	No	8	X	X	X	X	X	X	X	
MW-2	14.65		1045		6 HCl VOAs 2 NP 1L Ambers				8	X	X	X	X	X	X	X	
MW-3	13.68		1125		6 HCl VOAs 2 NP 1L Ambers				8	X	X	X	X	X	X	X	
MW-4	14.87		0920		3 HCl VOAs				3	X							
MW-5	15.51		0900		6 HCl VOAs 2 NP Ambers				8	X	X	X	X	X	X	X	
MW-6	15.32		1005		6 HCl VOAs 2 NP Ambers				8	X	X	X	X	X	X	X	
MW-7	15.58		0940		3 HCl VOAs				3	X							
MW-8	14.00		1010		6 HCl VOAs 2 NP Ambers				8	X	X	X	X	X	X	X	

Analysis Required: TVH + TEH + BTEX + MTBE + EDB + EDC + 5 Fuel Oxygenates (8260)

Relinquished by:	Date	Time	Received by:	Date	Time
Signature			Signature		
Printed: H. Pietropaoli			Printed		
Company: Stellar Environmental			Company		
Relinquished by: Signature	3/17/09	1500	Received by: Signature (Sample custody)	3/17/09	1500
Printed: Jose Ortiz			Printed: Jose Ortiz		
Company: Blaine Tech			Company: Blaine Tech		
Relinquished by: Signature (Sample Custody)	3/18/09	1420	Received by: Signature	3/18/09	1420
Printed: Michael Nimoboh			Printed: Rick Grams		
Company: BTS			Company: C&T		

Turnaround Time: 5 Day TAT
Comments: Global ID: TO600102243

2000-00-01

★ Stellar Environmental Solutions

2198 Sixth Street #201, Berkeley, CA 94710

intact cold RC

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 210760 Date Received 3/18/09 Number of coolers 2
Client Stellar Project

Date Opened 3/18/09 By (print) Micah Smith (sign)
Date Logged in 3/19 By (print) S Evans (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
   Shipping info
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☑ NO
   How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

   ☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

   Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C)

   ☒ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
   If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are samples in the appropriate containers for indicated tests? (YES) NO
11. Are sample labels present, in good condition and complete? (YES) NO
12. Do the sample labels agree with custody papers? (YES) NO
13. Was sufficient amount of sample sent for tests requested? (YES) NO
14. Are the samples appropriately preserved? (YES) NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES (NO) N/A
16. Was the client contacted concerning this sample delivery? YES NO
   If YES, Who was called? By Date:

COMMENTS
Samples 6 + 8 = 1/6 VOA ~~have~~ bubbles

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/09
Units:	ug/L	Received:	03/18/09
Batch#:	149073	Analyzed:	03/20/09

Field ID: MW-1 Lab ID: 210760-001
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	9,200 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	265 *	63-146
Bromofluorobenzene (FID)	249 *	70-140

Field ID: MW-2 Lab ID: 210760-002
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	2,200 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	182 *	63-146
Bromofluorobenzene (FID)	122	70-140

Field ID: MW-3 Lab ID: 210760-003
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	1,100 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	142	63-146
Bromofluorobenzene (FID)	114	70-140

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/09
Units:	ug/L	Received:	03/18/09
Batch#:	149073	Analyzed:	03/20/09

Field ID: MW-4 Lab ID: 210760-004
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	81 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	63-146
Bromofluorobenzene (FID)	100	70-140

Field ID: MW-5 Lab ID: 210760-005
Type: SAMPLE Diln Fac: 20.00

Analyte	Result	RL
Gasoline C7-C12	9,700 Y	1,000

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	63-146
Bromofluorobenzene (FID)	109	70-140

Field ID: MW-6 Lab ID: 210760-006
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	740 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	63-146
Bromofluorobenzene (FID)	111	70-140

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/09
Units:	ug/L	Received:	03/18/09
Batch#:	149073	Analyzed:	03/20/09

Field ID: MW-7 Lab ID: 210760-007
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	63-146
Bromofluorobenzene (FID)	101	70-140

Field ID: MW-8 Lab ID: 210760-008
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	110 Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	63-146
Bromofluorobenzene (FID)	106	70-140

Type: BLANK Diln Fac: 1.000
Lab ID: QC488147

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	63-146
Bromofluorobenzene (FID)	100	70-140

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC488148	Batch#:	149073
Matrix:	Water	Analyzed:	03/20/09
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	911.8	91	76-121

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	63-146
Bromofluorobenzene (FID)	96	70-140

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8015B
Field ID:	MW-1	Batch#:	149073
MSS Lab ID:	210760-001	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/20/09
Diln Fac:	1.000		

Type: MS Lab ID: QC488149

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	9,247	2,000	6,483	-138 NM	66-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	229 *	63-146
Bromofluorobenzene (FID)	185 *	70-140

Type: MSD Lab ID: QC488150

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	6,386	-143 NM	66-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	225 *	63-146
Bromofluorobenzene (FID)	183 *	70-140

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/09
Units:	ug/L	Received:	03/18/09
Diln Fac:	1.000	Prepared:	03/20/09
Batch#:	149084		

Field ID: MW-1 Lab ID: 210760-001
Type: SAMPLE Analyzed: 03/31/09

Analyte	Result	RL
Diesel C10-C24	5,200 Y	50

Surrogate	%REC	Limits
o-Terphenyl	93	61-127

Field ID: MW-2 Lab ID: 210760-002
Type: SAMPLE Analyzed: 03/31/09

Analyte	Result	RL
Diesel C10-C24	1,600 Y	50

Surrogate	%REC	Limits
o-Terphenyl	108	61-127

Field ID: MW-3 Lab ID: 210760-003
Type: SAMPLE Analyzed: 03/31/09

Analyte	Result	RL
Diesel C10-C24	5,100 Y	50

Surrogate	%REC	Limits
o-Terphenyl	96	61-127

Field ID: MW-5 Lab ID: 210760-005
Type: SAMPLE Analyzed: 03/31/09

Analyte	Result	RL
Diesel C10-C24	9,000 Y	50

Surrogate	%REC	Limits
o-Terphenyl	99	61-127

Field ID: MW-6 Lab ID: 210760-006
Type: SAMPLE Analyzed: 03/31/09

Analyte	Result	RL
Diesel C10-C24	3,300 Y	50

Surrogate	%REC	Limits
o-Terphenyl	104	61-127

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/17/09
Units:	ug/L	Received:	03/18/09
Diln Fac:	1.000	Prepared:	03/20/09
Batch#:	149084		

Field ID:	MW-8	Lab ID:	210760-008
Type:	SAMPLE	Analyzed:	03/31/09

Analyte	Result	RL
Diesel C10-C24	1,000 Y	50

Surrogate	%REC	Limits
o-Terphenyl	109	61-127

Type:	BLANK	Analyzed:	03/28/09
Lab ID:	QC488191		

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	120	61-127

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 3520C
Project#:	2003-43	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	149084
Units:	ug/L	Prepared:	03/20/09
Diln Fac:	1.000	Analyzed:	03/26/09

Type: BS
Lab ID: QC488192
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,795	112	50-120

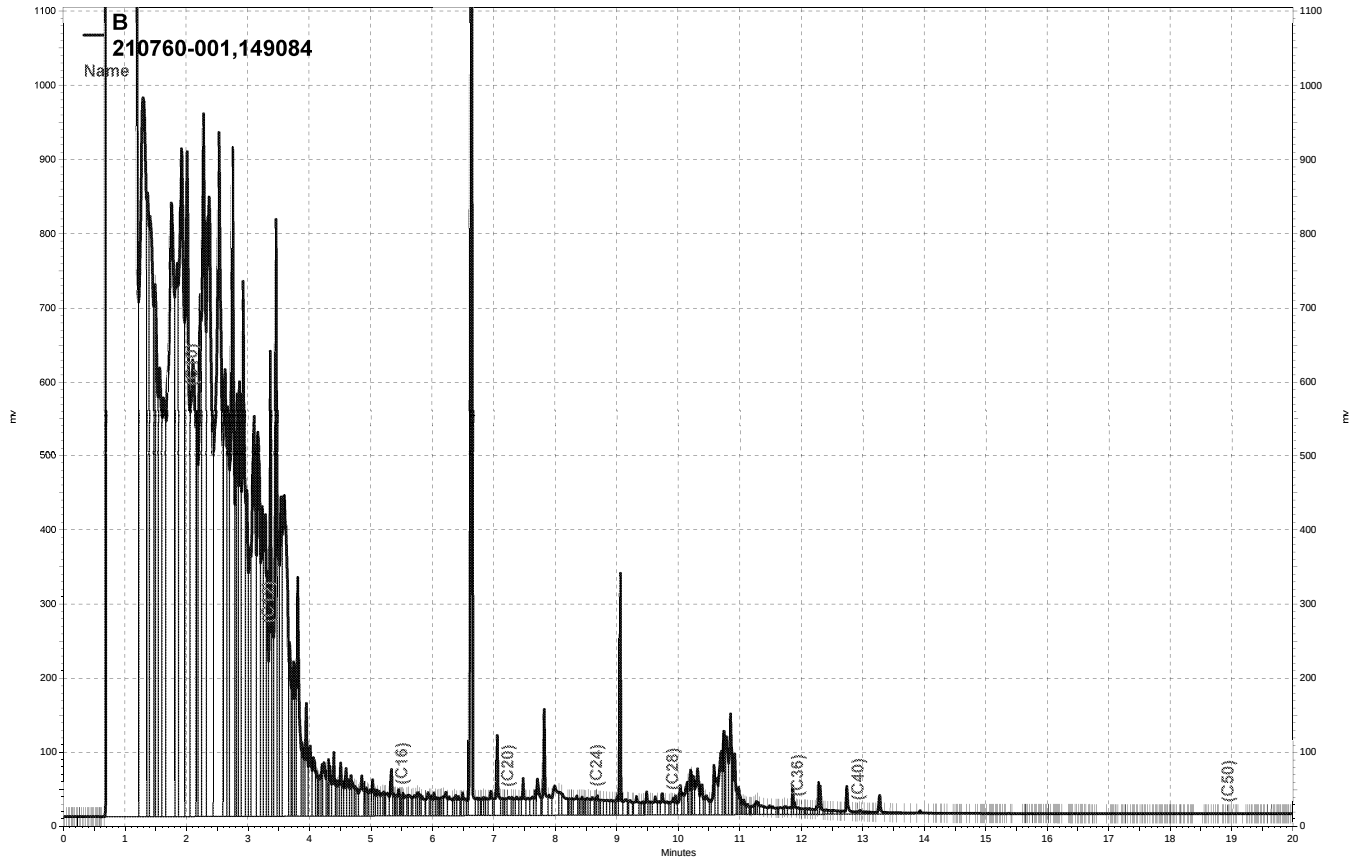
Surrogate	%REC	Limits
o-Terphenyl	109	61-127

Type: BSD
Lab ID: QC488193
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	3,012	120	50-120	7	37

Surrogate	%REC	Limits
o-Terphenyl	121	61-127

RPD= Relative Percent Difference



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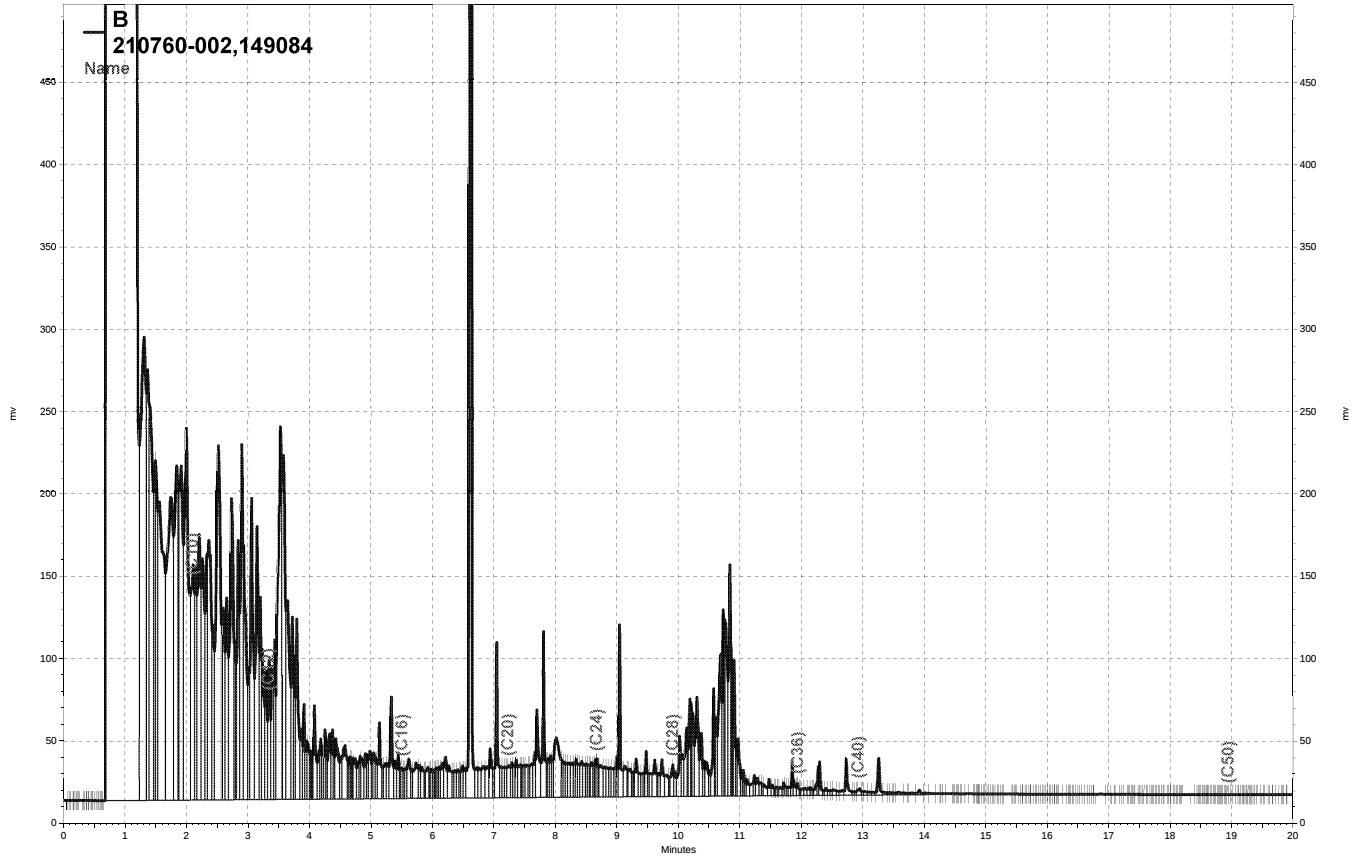

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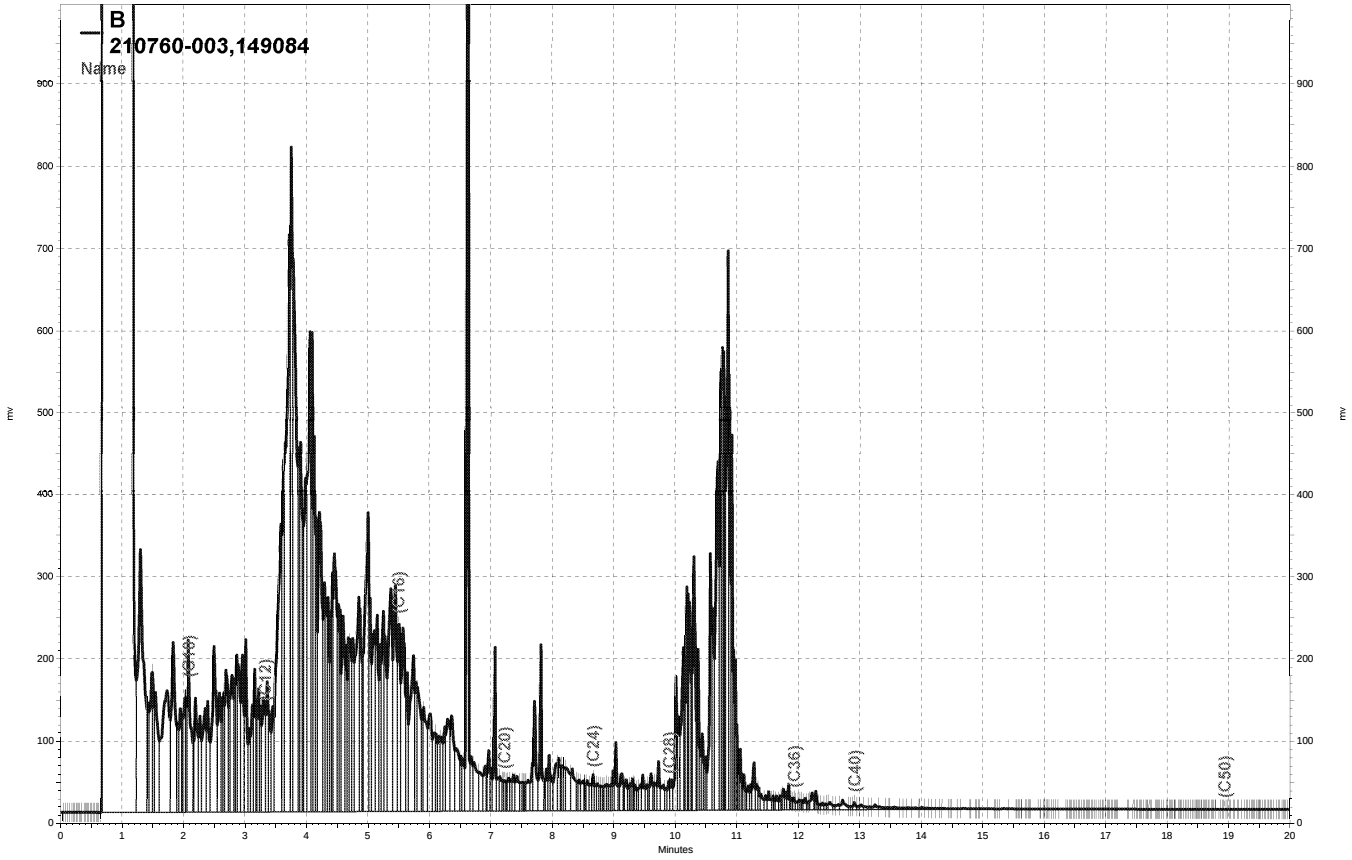

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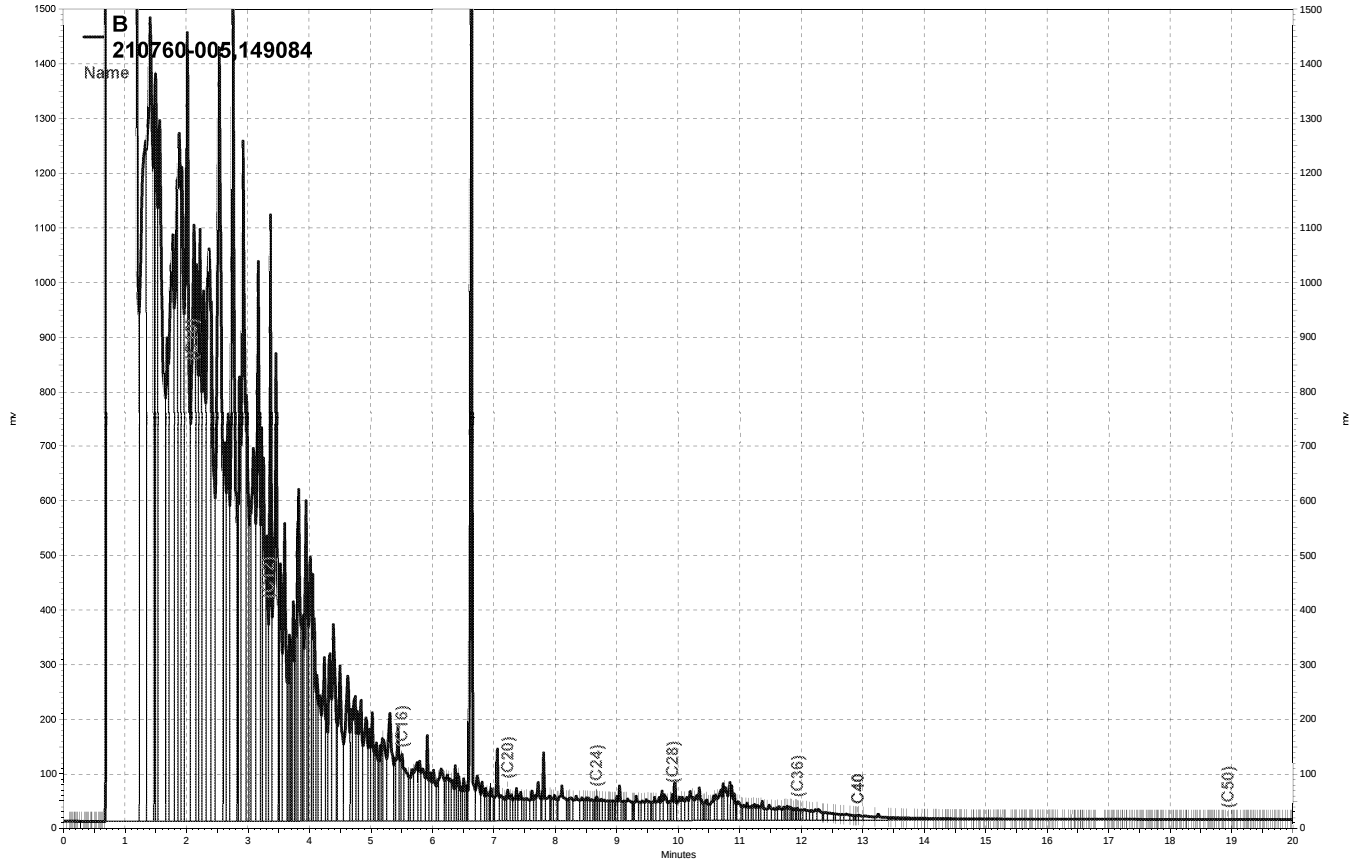

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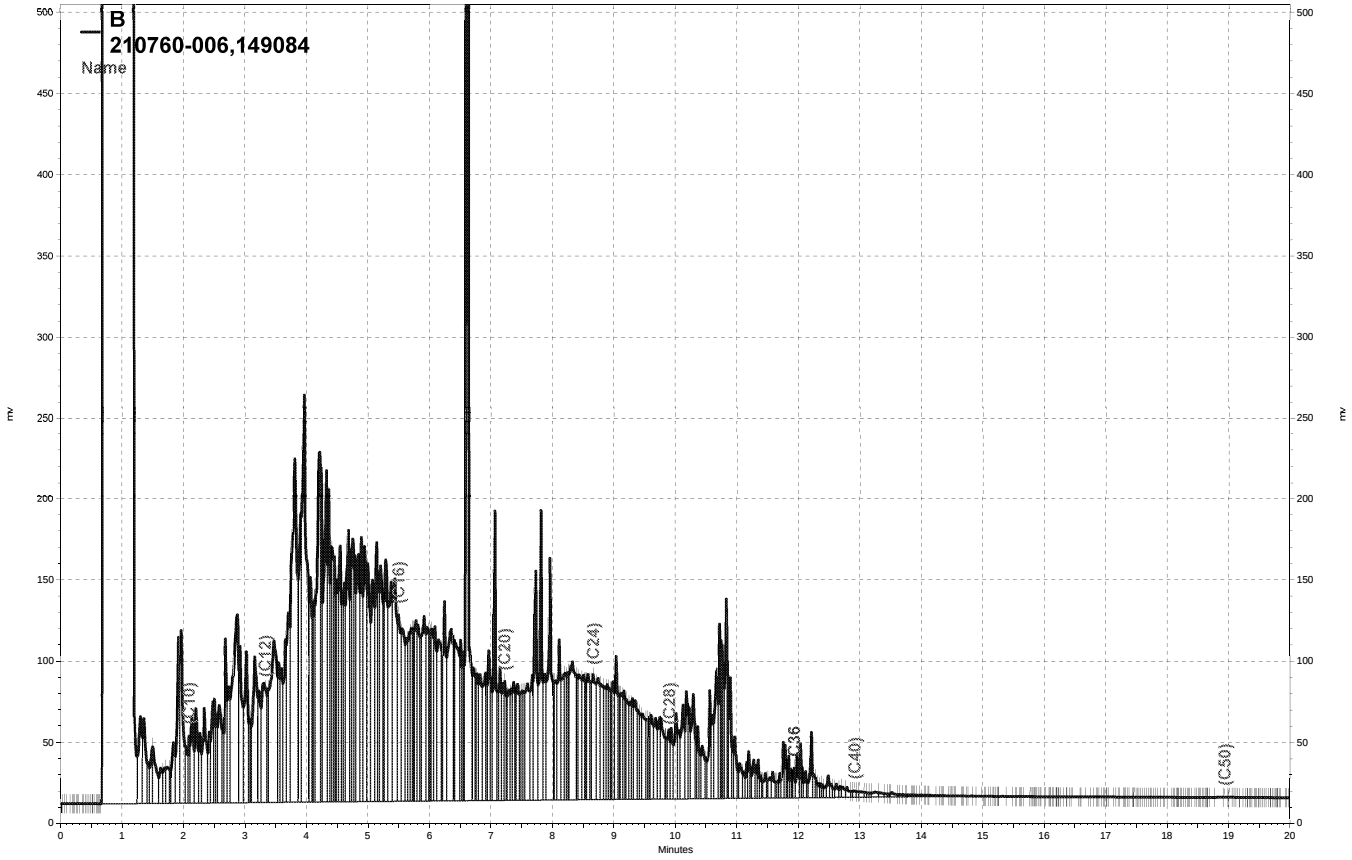

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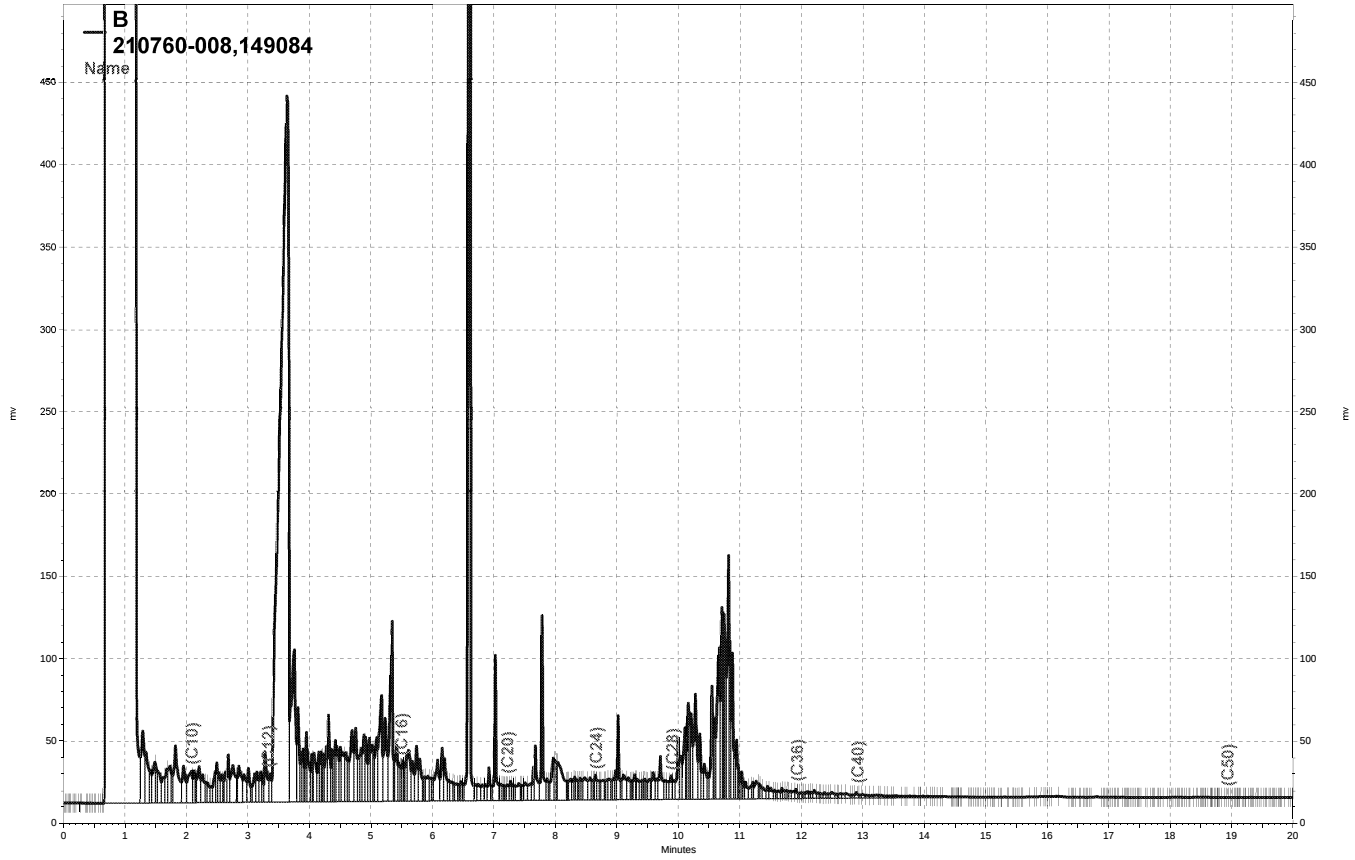

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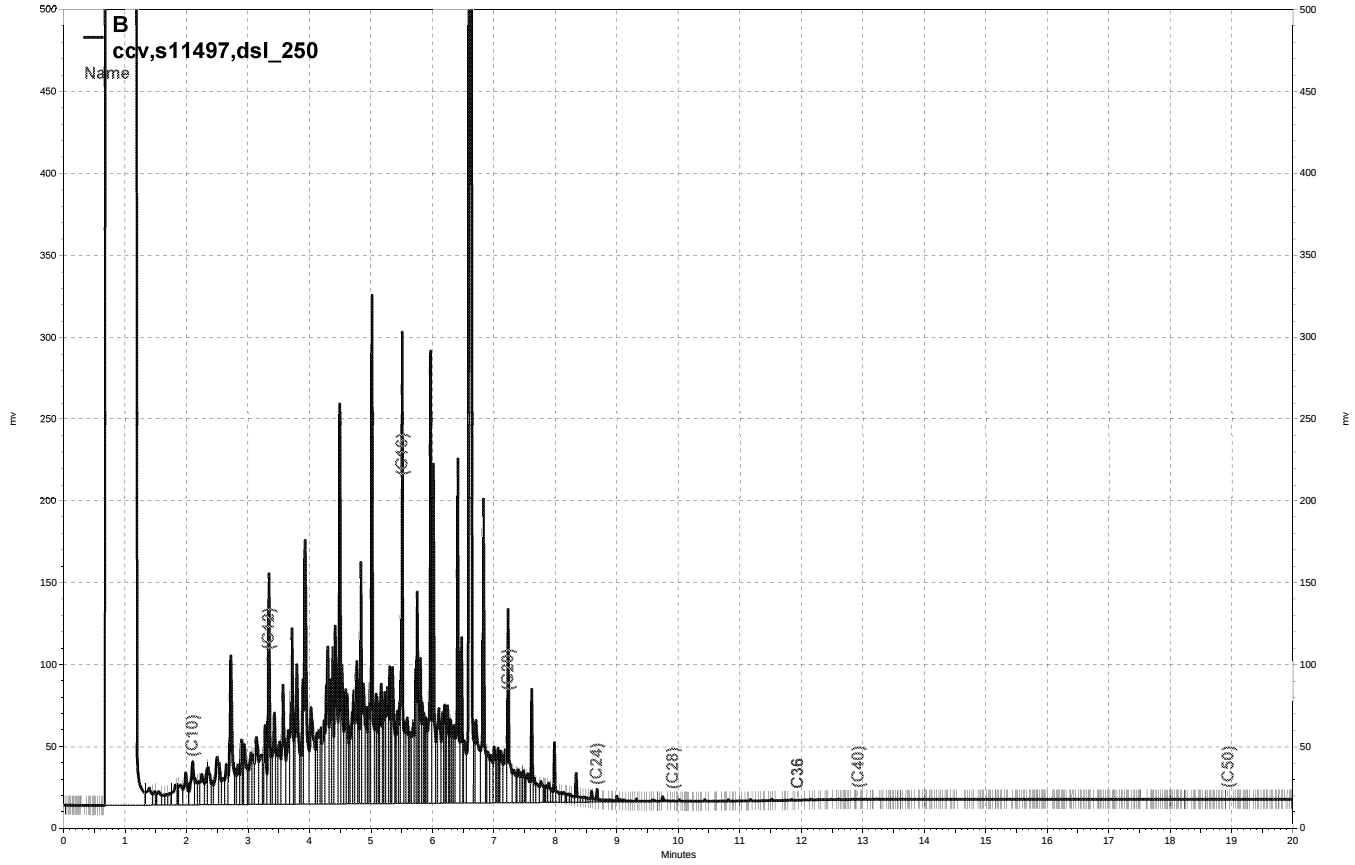

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Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	149213
Lab ID:	210760-001	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	21	10
MTBE	1.0	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	2.3	0.5
Benzene	84	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	6.4	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	29	0.5
m,p-Xylenes	43	0.5
o-Xylene	11	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	112	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	149168
Lab ID:	210760-002	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/24/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	22	10
MTBE	17	0.5
Isopropyl Ether (DIPE)	2.2	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	1.1	0.5
Benzene	7.9	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	2.6	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	10	0.5
m,p-Xylenes	12	0.5
o-Xylene	3.7	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-122
1,2-Dichloroethane-d4	100	77-137
Toluene-d8	97	80-120
Bromofluorobenzene	99	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	149213
Lab ID:	210760-003	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	41	10
MTBE	44	0.5
Isopropyl Ether (DIPE)	2.8	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	1.8	0.5
Benzene	41	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	0.6	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	2.4	0.5
m,p-Xylenes	1.8	0.5
o-Xylene	1.2	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	103	77-137
Toluene-d8	99	80-120
Bromofluorobenzene	108	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	149213
Lab ID:	210760-005	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	3.333		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	33
MTBE	ND	1.7
Isopropyl Ether (DIPE)	ND	1.7
Ethyl tert-Butyl Ether (ETBE)	ND	1.7
1,2-Dichloroethane	2.1	1.7
Benzene	140	1.7
Methyl tert-Amyl Ether (TAME)	ND	1.7
Toluene	34	1.7
1,2-Dibromoethane	ND	1.7
Ethylbenzene	38	1.7
m,p-Xylenes	170	1.7
o-Xylene	110	1.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	104	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	149213
Lab ID:	210760-006	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	2.6	0.5
Isopropyl Ether (DIPE)	0.6	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	4.7	0.5
Benzene	14	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	1.6	0.5
m,p-Xylenes	7.0	0.5
o-Xylene	1.6	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-122
1,2-Dichloroethane-d4	104	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	149213
Lab ID:	210760-008	Sampled:	03/17/09
Matrix:	Water	Received:	03/18/09
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	1.000		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	34	10
MTBE	5.2	0.5
Isopropyl Ether (DIPE)	2.5	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	105	77-137
Toluene-d8	100	80-120
Bromofluorobenzene	107	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC488520	Batch#:	149168
Matrix:	Water	Analyzed:	03/24/09
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	98	77-137
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC488727	Batch#:	149213
Matrix:	Water	Analyzed:	03/25/09
Units:	ug/L		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10
MTBE	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Toluene	ND	0.5
1,2-Dibromoethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-122
1,2-Dichloroethane-d4	107	77-137
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-125

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	149168
Units:	ug/L	Analyzed:	03/24/09
Diln Fac:	1.000		

Type: BS Lab ID: QC488518

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	82.32	82	55-151
MTBE	20.00	15.97	80	73-122
Isopropyl Ether (DIPE)	20.00	17.25	86	65-131
Ethyl tert-Butyl Ether (ETBE)	20.00	17.54	88	75-128
1,2-Dichloroethane	20.00	18.07	90	73-141
Benzene	20.00	18.61	93	80-120
Methyl tert-Amyl Ether (TAME)	20.00	19.20	96	80-121
Toluene	20.00	18.85	94	80-120
1,2-Dibromoethane	20.00	19.87	99	80-120
Ethylbenzene	20.00	19.62	98	80-121
m,p-Xylenes	40.00	40.14	100	80-122
o-Xylene	20.00	19.31	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	96	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-125

Type: BSD Lab ID: QC488519

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	88.36	88	55-151	7	21
MTBE	20.00	16.68	83	73-122	4	20
Isopropyl Ether (DIPE)	20.00	17.64	88	65-131	2	20
Ethyl tert-Butyl Ether (ETBE)	20.00	18.36	92	75-128	5	20
1,2-Dichloroethane	20.00	18.23	91	73-141	1	20
Benzene	20.00	18.32	92	80-120	2	20
Methyl tert-Amyl Ether (TAME)	20.00	19.24	96	80-121	0	20
Toluene	20.00	18.10	91	80-120	4	20
1,2-Dibromoethane	20.00	19.86	99	80-120	0	20
Ethylbenzene	20.00	19.26	96	80-121	2	20
m,p-Xylenes	40.00	38.63	97	80-122	4	20
o-Xylene	20.00	18.49	92	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	96	77-137
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-125

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

BTXE & Oxygenates

Lab #:	210760	Location:	Oakland Auto Works
Client:	Stellar Environmental Solutions	Prep:	EPA 5030B
Project#:	2003-43	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	149213
Units:	ug/L	Analyzed:	03/25/09
Diln Fac:	1.000		

Type: BS Lab ID: QC488725

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	118.0	94	55-151
MTBE	25.00	23.54	94	73-122
Isopropyl Ether (DIPE)	25.00	28.48	114	65-131
Ethyl tert-Butyl Ether (ETBE)	25.00	27.23	109	75-128
1,2-Dichloroethane	25.00	27.66	111	73-141
Benzene	25.00	26.78	107	80-120
Methyl tert-Amyl Ether (TAME)	25.00	27.25	109	80-121
Toluene	25.00	25.06	100	80-120
1,2-Dibromoethane	25.00	25.71	103	80-120
Ethylbenzene	25.00	24.98	100	80-121
m,p-Xylenes	50.00	50.75	101	80-122
o-Xylene	25.00	24.73	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	104	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-125

Type: BSD Lab ID: QC488726

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.2	96	55-151	2	21
MTBE	25.00	23.08	92	73-122	2	20
Isopropyl Ether (DIPE)	25.00	27.48	110	65-131	4	20
Ethyl tert-Butyl Ether (ETBE)	25.00	26.71	107	75-128	2	20
1,2-Dichloroethane	25.00	27.14	109	73-141	2	20
Benzene	25.00	25.97	104	80-120	3	20
Methyl tert-Amyl Ether (TAME)	25.00	26.92	108	80-121	1	20
Toluene	25.00	24.54	98	80-120	2	20
1,2-Dibromoethane	25.00	25.38	102	80-120	1	20
Ethylbenzene	25.00	24.53	98	80-121	2	20
m,p-Xylenes	50.00	50.19	100	80-122	1	20
o-Xylene	25.00	24.23	97	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-122
1,2-Dichloroethane-d4	104	77-137
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-125

RPD= Relative Percent Difference