Allterra Environmental, Inc.
849 Almar Avenue, Suite C
No. 281
Santa Cruz, California 95060

Client: Mr. Manwel Shuwayhat
Project Location: 160 Holmes Street, Livermore, California
Subject: Interim Remedial Action Status Report
Report Date: November 10, 2010

To Whom It May Concern:

I have reviewed the report referenced above and approve its distribution to the necessary regulatory agencies. Should any of the regulatory agencies require it, " I declare, under penalty of perjury, that the information contained in the attached proposal or report is true and correct to the best of my knowledge."

Sincerely,

Manwel Shuwayhat

November 10, 2010
Project No.: 160

Manwel and Samira Shuwayhat
54 Wolfe Canyon Road
Kentfield, California 94904

SUBJECT: Interim Remedial Action Status Report, Fuel Leak Case No. RO0000324, 160 Holmes Street, Livermore, California

Dear Manwel and Samira Shuwayhat:

On your behalf, Allterra Environmental, Inc. (Allterra) has prepared this interim remedial action status report to document work conducted at the property located at 160 Holmes Street in Livermore, California (Site). This report documents field observations and data collected while conducting pilot scale system operation and maintenance during fourth quarter of 2010.

Site Location and Description
The subject property is located at the northeast intersection of Holmes Street and Second Street, in Livermore, California (Figure 1). A Vallero fuel station currently occupies the Site and the surrounding area is primarily residential with some retail businesses along 1st and 2nd Streets. The approximate surface elevation of the site is 465 feet above mean sea level (MSL) and slopes to the northwest. Pertinent site features, including the locations of the former underground storage tanks (USTs), existing monitoring and extraction wells, and previous soil borings are presented in Figure 2.

Interim Remedial Action
Based on the results of pilot scale remedial operations performed during the second quarter of 2010 and a subsequent meeting with the Alameda County Environmental Health Services (ACEHS) on August 18, 2010, Allterra recommended implementation of additional interim remedial action that would be adaptive to Site conditions. The preferred method of interim remedial action at the Site was contingent upon measured groundwater levels within the area of concern (immediately down-gradient of the former UST pit). If groundwater elevations remained high, interim groundwater extraction (GWE) would be considered the most effective method for contaminant mass removal. However, if groundwater elevations dropped significantly (as they did in 2008-2009), interim soil vapor extraction (SVE) would be considered the most effective method for contaminant mass removal.

<u>Current Site Conditions</u>
On October 7 and 12, and November 4, 2010, Allterra personnel measured depths to groundwater in monitoring and extraction wells near the area of concern (MW-1A, MW-3A, EW-1, EW-2, and EW-3). These measurements indicated that groundwater elevations had not dropped significantly since the second quarter of 2010. Also, because the measured depth to groundwater in EW-3 on October 7, 2010 was 26.60 feet below ground surface (bgs), performing SVE at this well would likely produce a mounding affect in the water column, thus completely blinding off the well screen (25 to

30 feet below top of casing) and limiting the effectiveness of SVE. Therefore, GWE was determined to be the preferred method of interim remedial action in the area of concern at this time.

Remediation Compound

To facilitate interim remedial activities, a temporary remediation compound was constructed along the northeastern edge of the property (Figure 2). The compound consists of conveyance piping, two 55-gallon carbon treatment drums, and two 2,400-gallon low-profile storage tanks to contain extracted and treated groundwater prior to batch discharge to the sanitary sewer.

Interim GWE Activities

On October 7, 2010, Allterra personnel attempted GWE from well EW-3 located in the area of concern. However, the measured sustainable pumping rate during extraction from EW-3 was only approximately 0.5 gallons per minute (gpm). In an effort to increase the total volume of impacted groundwater extracted and treated during interim remedial activities, Allterra personnel initiated GWE from well EW-1 on October 12, 2010. EW-1 is located downgradient from EW-3, but still lies within the area of concern. The measured sustainable pumping rate during extraction from EW-1 was approximately 5.0 gpm. To date, the interim GWE system has removed a total of approximately 7,200 gallons of impacted groundwater from EW-1 and two 2,400-gallon batches (4,800 gallon total) were sampled and discharged to the sanitary sewer system.

Interim GWE field activities included collection of groundwater samples for laboratory analyses, recording system operation data (total flows and flow rates, groundwater elevations, qualitative observations, etc.), and collecting data from observation wells. System data, such as groundwater elevations, flow rates, and sample results, are presented in Tables 1 through 3.

Sample Collection

On October 28 and November 4, 2010, Allterra collected stream samples from groundwater entering the storage tanks (GW-IN) and from treated water (Tank-2) prior to discharge to the sanitary sewer system. GW-IN samples were collected to determine dissolved contaminant masses removed during interim GWE activities. Sample analytical results are presented in Table 2.

Laboratory Analysis

Groundwater samples from the GWE activities were submitted under chain-of-custody protocol to McCampbell Analytical, Inc. of Pacheco, California, a state of California certified laboratory (ELAP #1644). Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015C modified, and for benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8021B. The certified analytical reports for the samples, including quality assurance and quality control (QA/QC) data, are included in Appendix A.

Interim Remedial Action Results

Since the commencement of interim GWE activities on October 12, 2010, the GWE system has removed approximately 7,200 gallons of impacted groundwater from extraction well EW-1 and two 2,400-gallon batches (4,800 gallon total) were sampled and discharged to the sanitary sewer system. GWE data including flow rates and volumes is presented in Tables 3 and 4. Analytical

results for samples collected from the groundwater influent stream (GW-IN) and from treated water prior to discharge (Tank-2) on October 28 and November 4, 2010 are summarized below:

Sample ID	Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
Extraction Well EW-1 (results in µg/L)							
GW-IN	10/28/10	180	3.7	1.0	<0.5	2.8	3,400
	11/4/10	790	20	3.0	39	76	6,900
Prior to Discharge (Tank-2) (results in µg/L)							
Batch-1	10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Batch-2	11/4/10	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Additionally, analytical data from GWE samples are presented in Table 2 and certified analytical reports are attached as Appendix A.

Interim GWE Mass Removal

To date, the interim GWE system has removed, treated, and discharged approximately 4,800 gallons of impacted groundwater from EW-1 (two 2,400-gallon batches). Based on the volume of groundwater processed and laboratory analytical results, the GWE system has currently removed a total of approximately 0.019 pounds of TPHg, 0.00047 pounds of benzene, and 0.21 pounds of MTBE (Table 5).

Conclusions

Based on data collected during April 2010, Allterra concludes the following:

- Groundwater elevations in site wells continue to remain high; therefore interim GWE was considered the most effective method for contaminant mass removal in the area of concern.
- Since October 12, 2010, the interim GWE system has removed approximately 7,200 gallons of groundwater from EW-1. A total of 4,800 gallons of extracted groundwater has been treated and discharged in two batches, resulting in the removal of approximately 0.019 pounds of TPHg, 0.00047 pounds of benzene, and 0.21 pounds of MTBE.
- Based on initial measured flow rates from extraction wells EW-1 (5.0 gpm) and EW-3 (0.5 gpm), interim GWE was performed at EW-1. However, due to lower contaminant concentrations in EW-1 when compared to EW-3, continuing to use EW-1 to perform GWE does not appear to be the most effective strategy to remove contaminant mass from the source area.

Recommendations

Based on the conclusions presented above, Allterra recommends the following:

- Initiate extraction of impacted groundwater from well EW-3 instead of EW-1 to increase the efficiency of contaminant mass removal.

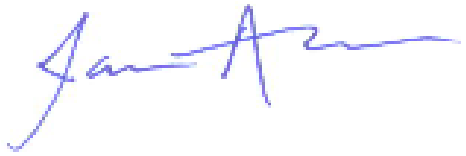
- Continue operation of GWE equipment for the duration of November 2010. Based on an evaluation of GWE operational data and sampling results, determine if the rate of recovery justifies continuing interim extraction activities.
- If groundwater elevations within the area of concern drop significantly, initiate interim SVE from EW-3 and discontinue GWE activities.

Limitations

Allterra prepared this report for the use of Manwel and Samira Shuwayhat, Alameda County Environmental Health Services, and RWQCB in evaluating groundwater quality at selected on-site locations at the time of this study. Statements, conclusions, and recommendations in this report are based solely on the field observations and analytical results related to work performed by Allterra and there is no warranty, expressed or implied. Site conditions and data can change over time; therefore, data presented in this report is only applicable to the timeframe of this study. Allterra's services have been performed in accordance with environmental principles generally accepted at this time and location.

Should you have any questions, please contact Allterra at (831) 425-2608.

Sincerely,
Allterra Environmental, Inc.



James Allen, R.E.A.II
Project Manager

Joe Mangine, P.G. 8423
Senior Geologist

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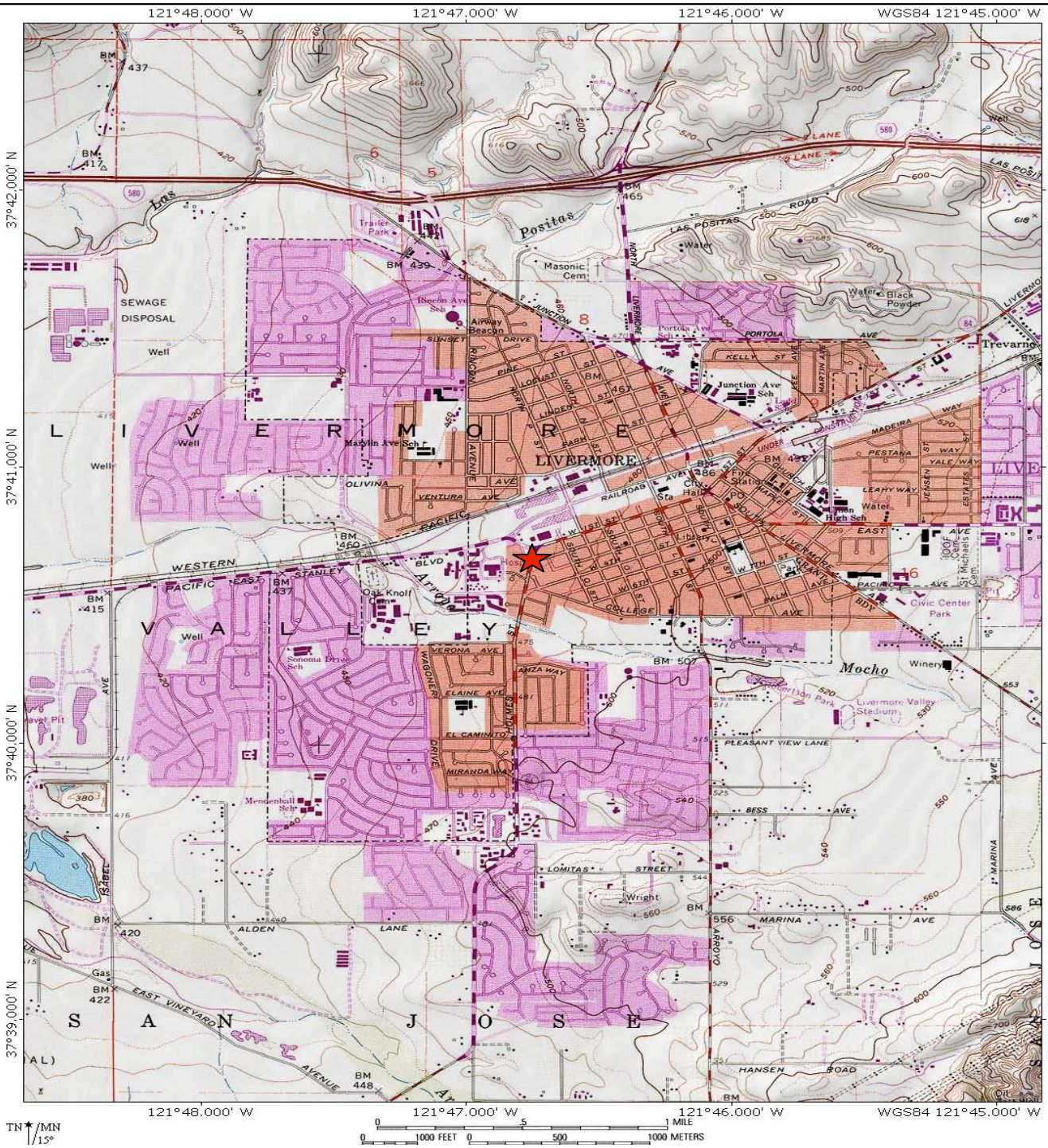
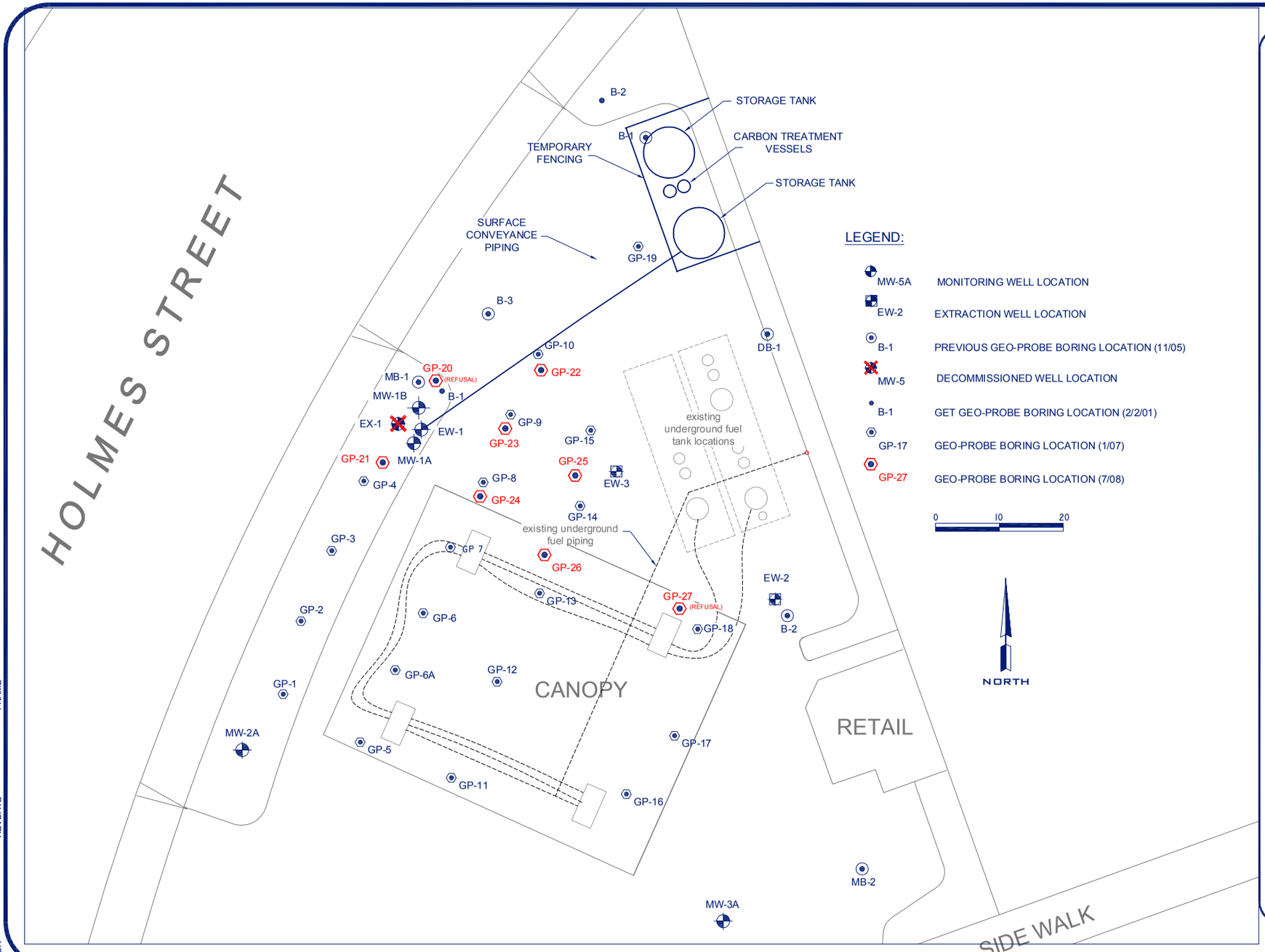
cc: Mr. Jerry Wickham, Alameda County Environmental Health Services

FIGURES 1 – 2



Site Vicinity Map Livermore Gas and Minimart 160 Holmes Street Livermore, California	Figure 1 | 4/8/10

ALLTERRA
849 Almar Avenue, Suite C, No. 281
Santa Cruz, California
http://www.allterraenv.com



General Notes

stamp

160 HOLMES STREET
SOIL AND GROUNDWATER INVESTIGATION AND REMEDIATION PROJECT

PREPARED BY: ALLTERRA

No.	Revision/Issue	Date
0	DRAFT/REVIEW	11/9

Firm Name and Address
ALLTERRA ENVIRONMENTAL, INC.
849 ALMAR AVE., SUITE C, No. 281
SANTA CRUZ, CALIFORNIA
831-425-2608 FAX 831-425-2609
www.allterraenv.com

Sheet Name and Address
INTERIM GROUNDWATER EXTRACTION SYSTEM

160 HOLMES STREET
LIVERMORE, CALIFORNIA

Project	Sheet
160	FIGURE 2
Date: 11/9/10	
Scale: see drawing	

FNAME
REVDATE
USER

TABLES 1-4

Table 1
Groundwater Elevation Data - Area of Concern
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-1A*	4/6/06	465.03	15-30	15.60	449.43
	7/27/06	465.03		22.42	442.61
	10/12/06	465.03		23.46	441.57
	1/3/07	465.03		21.00	444.03
	4/13/07	465.03		23.24	441.79
	7/16/07	465.03		Dry	NC
	10/29/07	465.03		Dry	NC
	2/1/08	465.03		Dry	NC
	4/18/08	465.03		27.34	437.69
	7/28/08	465.03		Dry	NC
	11/18/08	465.03		Dry	NC
	2/4/09	465.03		Dry	NC
	4/21/09	465.03		Dry	NC
	9/24/09	465.03		35.00	430.03
	3/4/10	465.03		28.05	436.98
	7/19/10	465.03		23.85	441.18
	10/7/10	**465.03**		**25.50**	**439.53**
	10/12/10	**465.03**		**25.60**	**439.43**
	11/4/10	**465.03**		**25.67**	**439.36**
MW-2A	4/6/06	464.94	15-30	15.47	449.47
	7/27/06	464.94		22.27	442.67
	10/12/06	464.94		23.35	441.59
	1/3/07	464.94		20.90	444.04
	4/13/07	464.94		23.16	441.78
	7/16/07	464.94		Dry	NC
	10/29/07	464.94		Dry	NC
	2/1/08	464.94		Dry	NC
	4/18/08	464.94		27.26	437.68
	7/28/08	464.94		Dry	NC
	11/18/08	464.94		Dry	NC
	2/4/09	464.94		Dry	NC
	4/21/09	464.94		Dry	NC
	9/24/09	464.94		Dry	NC
	3/4/10	464.94		25.12	439.82
	7/20/10	464.94		25.90	439.04
MW-3A	4/6/06	465.84	15-30	16.02	449.82
	7/27/06	465.84		22.90	442.94
	10/12/06	465.84		23.99	441.85
	1/3/07	465.84		21.52	444.32
	4/13/07	465.84		23.78	442.06
	7/16/07	465.84		Dry	NC
	10/29/07	465.84		Dry	NC
	2/1/08	465.84		Dry	NC
	4/18/08	465.84		27.86	437.98
	7/28/08	465.84		Dry	NC
	11/18/08	465.84		Dry	NC
	2/4/09	465.84		Dry	NC
	4/21/09	465.84		Dry	NC
	9/24/09	465.84		Dry	NC
	3/4/10	465.84		27.95	437.89
	7/19/10	465.84		26.55	439.29
	10/12/10	**465.84**		**26.05**	**439.79**

Table 1
Groundwater Elevation Data - Area of Concern
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
EW-1**	4/6/06	465.45	15-40	15.99	449.46
	7/27/06	465.45		23.85	441.60
	10/12/06	465.45		23.51	441.94
	1/3/07	465.45		21.45	444.00
	4/13/07	465.45		23.69	441.76
	10/29/07	465.45		NM	NC
	2/1/08	465.45		NM	NC
	4/18/08	465.45		27.83	437.62
	7/28/08	465.45		NM	NC
	11/18/08	465.45		Dry	NC
	2/4/09	465.45		Dry	NC
	4/21/09	465.45		Dry	NC
	9/24/09	465.45		Dry	NC
	3/4/10	465.45		27.87	NC
	7/20/10	465.45		24.35	441.10
	10/12/10	**465.45**		**26.05**	**439.40**
	11/4/10	**465.45**		**26.14**	**439.31**
EW-2**	4/6/06	465.99	15-40	16.20	449.79
	7/27/06	465.99		23.10	442.89
	10/12/06	465.99		21.48	444.51
	1/3/07	465.99		21.66	444.33
	4/13/07	465.99		23.93	442.06
	10/29/07	465.99		Dry	NC
	2/1/08	465.99		NM	NC
	4/18/08	465.99		28.04	437.95
	7/28/08	465.99		NM	NC
	11/18/08	465.99		Dry	NC
	2/4/09	465.99		Dry	NC
	4/21/09	465.99		Dry	NC
	9/24/09	465.99		Dry	NC
	3/4/10	465.99		25.89	NC
	7/20/10	465.99		24.45	441.54
	10/7/10	**465.99**		**26.11**	**439.88**
	10/12/10	**465.99**		**26.25**	**439.74**
	11/4/10	**465.99**		**26.35**	**439.64**
EW-3 [(a)]	11/18/08	NC	25-30	Dry	NC
	2/4/09	NC		33.80	NC
	4/21/09	NC		Dry	NC
	9/24/09	NC		Dry	NC
	3/4/10	NC		28.02	NC
	7/20/10	NC		NM	NC
	10/7/10	**NC**		**26.60**	**NC**
	10/12/10	**NC**		**26.02**	**NC**
	11/4/10	**NC**		**26.13**	**NC**

Notes:
MSL: mean sea level
bgs: below ground surface
NA: well not accessible
NC: elevation not calculated
NM: well not measured
* = Well MW-1 renamed MW-1A
** = Well installed on 2/22/06-2/28/06
(a) = Well EW-3 is 35 feet deep with a screen interval from 25 to 30 feet bgs.

Table 2
Interim Groundwater Extraction Sample Results
160 Holmes Street, Livermore, California

Sample ID	Sample Date	Total Petroleum Hydrocabons as (ug/L)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
		Gasoline					
Extraction Well EW-1							
GW-IN	10/28/10	180	3.7	1.0	<0.5	2.8	3,400
	11/4/10	790	20	3.0	39	76	6,900
Prior to Discharge (Tank-2)							
Batch-1	10/28/10	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Batch-2	11/4/10	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Notes:
All results in micrograms per liter (ug/L)
-- = not analyzed
MTBE = Methyl tertiary butyl ether
GW-IN = Sample collected from influent groundwater stream
Tank-2 = Sample collected from treated groundwater prior to discharge to sanitary sewer
Samples analyzed for TPHg by EPA Method 8015CM, BTEX/MTBE by EPA Method 8021B.

Table 3
Interim Groundwater Extraction Operational Data
160 Holmes Street, Livermore, California

Date	GWE System					Notes
	Average Flow Rate (gpm)	Total Flow Volume (gallons)	Cummulative Flow Volume (gallons)	Extraction Wells In Use	Date Added to System	
10/12/10 to 11/4/10	5.0	7,200	7,200	EW-1	10/12/10	Groundwater extracted from EW-1 on October 12, October 26 to 28, and November 3 to 4, 2010.

Notes:
GWE = groundwater extraction
gpm = gallons per minute
Total Flow Volume = gallons of impacted groundwater removed from subsurface

Table 4

Dissolved Phase Contaminant Mass Removal Data

160 Holmes Street, Livermore, California

Date Batch Sampled	Influent Concentration (per batch)			Gallons Processed (EW-1)		Mass Removed (pounds)					
						Quarter/ Month Total			Cumulative Total		
	TPHg	Benzene	MTBE	Per Batch	Total	TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
10/28/10	180	3.7	3,400	2,400	4,800	0.0036	0.000074	0.068	0.019	0.00047	0.21
11/4/10	790	20	6,900	2,400		0.016	0.00040	0.14			

Notes:
All concnetrations listed in micrograms per liter (µg/L)
All masses listed in pounds (lb)

APPENDIX A
Certified Analytical Reports and Chains of Custody

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street	Date Sampled: 10/28/10
		Date Received: 10/28/10
	Client Contact: Erik Allen	Date Reported: 11/02/10
	Client P.O.:	Date Completed: 11/01/10

WorkOrder: 1010786

November 02, 2010

Dear Erik:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#160; 160 Holmes Street,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1010784

ALLTERRA
849 Almar Avenue, Suite C, #281
Santa Cruz, California 95060
Website: www.allterraenv.com
Phone: (831) 425-2608 Facsimile: (831) 425-2609

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR ~~72HR~~ 5 Day *

Report and Bill to: Allterra Environmental, Inc.
Project Number: 160
Project Location: 160 Holmes Street, Livermore, Ca
Project Name: Livermore Gas & Mini Mart
Sampler Signature:

Field Point Name / Sample ID	Sample Collection: Date	Sample Collection: Time	Sample Containers: Number of Containers	Sample Containers: Container Type	Matrix: Air	Matrix: Water	Matrix: Soil	Matrix: Sludge	Matrix: Other	Preservation: Ice	Preservation: HCl	Preservation: HNO_3	Preservation: Other	TPHg/ BTEX/ MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPHd (EPA 8015)	5-fuel oxys (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	Hardness/Total dissolved solids	CAM-17 Metals (EPA 6010/6020)	LUFT 5 Metals (EPA 6010/6020)	PAHs/ PNAs (EPA 8270,625/8310)	Fish Toxicity/Bioassay	Lead (EPA 6010/200.9/200.8)		EDF required
GW-IN	10/28/10	12:00	2	VOAs		X								X	X													X

Sampled By: ERIK ALLEN	Date: 10/28/10	Time: 12:00	Received By:
Received By:	Date:	Time:	Received By:
Received By:	Date: 10/28/10	Time: 1630	Received By:

Comments:

ICE / t° 5.4
GOOD CONDITION ___ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___

PRESERVATION	VOAS	O & G	METALS	OTHER

* Changed To a 72HR RUSH per J.M 11/01/10

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010786 **ClientCode: ATRS**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Erik Allen
Allterra Environmental, Inc
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
831-425-2608 FAX 831-425-2609

Email: erik@allterraenv.com, micah@allterraenv.
cc:
PO:
ProjectNo: #160; 160 Holmes Street

Bill to:
Accounts Payable
Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
micah@allterraenv.com

Requested TAT: 3 days

Date Received: **10/28/2010**
Date Printed: **11/01/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1010786-001	GW-IN	Water	10/28/2010 12:00	☐	A	A										

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 72hr rush on 11/01/10

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Allterra Environmental, Inc**

Date and Time Received: **10/28/2010 4:38:09 PM**

Project Name: **#160; 160 Holmes Street**

Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1010786** Matrix Water

Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☐	No ☑	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes Street	Date Sampled: 10/28/10
		Date Received: 10/28/10
849 Almar Ave, Ste. C #281	Client Contact: Erik Allen	Date Extracted: 10/30/10-11/01/10
Santa Cruz, CA 95060	Client P.O.:	Date Analyzed: 10/30/10-11/01/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1010786

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	GW-IN	W	180	3400	3.7	1.0	ND	2.8	1	102	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 1644

CC for Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54079 WorkOrder 1010786

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010771-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	92.6	94.4	2.00	91.1	99.2	8.48	70 - 130	20	70 - 130	20
MTBE	ND	10	121	124	2.94	121	117	3.90	70 - 130	20	70 - 130	20
Benzene	ND	10	111	109	2.16	101	113	10.9	70 - 130	20	70 - 130	20
Toluene	ND	10	101	97.6	3.04	91.4	104	12.5	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	99.8	97.6	2.16	91.7	100	8.89	70 - 130	20	70 - 130	20
Xylenes	ND	30	113	110	2.12	104	114	8.76	70 - 130	20	70 - 130	20
%SS:	102	10	103	102	1.55	97	106	8.66	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54079 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010786-001A	10/28/10 12:00 PM	10/30/10	10/30/10 12:32 AM	1010786-001A	10/28/10 12:00 PM	11/01/10	11/01/10 11:44 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes Street	Date Sampled: 10/28/10
		Date Received: 10/28/10
849 Almar Ave, Ste. C #281	Client Contact: Erik Allen	Date Reported: 11/01/10
Santa Cruz, CA 95060	Client P.O.:	Date Completed: 11/01/10

WorkOrder: 1010787

November 02, 2010

Dear Erik:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#160; 160 Holmes Street,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1010787

RUSH

ALLTERRA

849 Almar Avenue, Suite C, #281
Santa Cruz, California 95060
Website: www.allterraenv.com
Phone: (831) 425-2608 Facsimile: (831) 425-2609

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR 72HR X 5 Day

Report and Bill to: Allterra Environmental, Inc.
Project Number: 160
Project Location: 160 Holmes Street, Livermore, Ca
Project Name: Livermore Gas & Mini Mart
Sampler Signature:

Field Point Name / Sample ID	Sample Collection		Sample Containers		Matrix					Preservation				TPHg/ BTEX/ MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPHd (EPA 8015)	5-fuel oxys (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	Hardness/Total dissolved solids	CAM-17 Metals (EPA 6010/6020)	LUFT 5 Metals (EPA 6010/6020)	PAH's/ PNA's (EPA 8270,625/8310)	Fish Toxicity/Bioassay	Lead (EPA 6010/200.9/200.8)		EDF required
	Date	Time	Number of Containers	Container Type	Air	Water	Soil	Sludge	Other	Ice	HCl	HNO3	Other																
Tank-2	10/28/10	12:00	3	VOAs		X								X	X														

Sampled By: ERIK ALLEN	Date: 10/28/10	Time: 12:00	Received By:
Received By:	Date:	Time:	Received By:
Received By:	Date: 10/28/10	Time: 1630	Received By:

Comments:
ICE / t° 5.2
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____
PRESERVATION VOAS | O & G | METALS | OTHER

* Changed to a 72HR Rush per J.M 11/01/10

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010787 **ClientCode: ATRS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Erik Allen
Allterra Environmental, Inc
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
831-425-2608 FAX 831-425-2609

Email: erik@allterraenv.com, micah@allterraenv.
cc:
PO:
ProjectNo: #160; 160 Holmes Street

Bill to:
Accounts Payable
Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
micah@allterraenv.com

Requested TAT: 3 days

Date Received: **10/28/2010**
Date Printed: **11/01/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1010787-001	Tank-2	Water	10/28/2010 12:00	☐	A											

Test Legend:

1	G-MBTEX_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 72hr rush on 11/1/10

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Allterra Environmental, Inc**
Date and Time Received: **10/28/2010 5:00:51 PM**

Project Name: **#160; 160 Holmes Street**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1010787** Matrix Water
Carrier: Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes Street	Date Sampled: 10/28/10
		Date Received: 10/28/10
849 Almar Ave, Ste. C #281	Client Contact: Erik Allen	Date Extracted: 10/30/10
Santa Cruz, CA 95060	Client P.O.:	Date Analyzed: 10/30/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1010787

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	Tank-2	W	ND	ND	ND	ND	ND	ND	1	98	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

CC for Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54092 WorkOrder 1010787

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1010787-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	92.8	92.3	0.524	91.7	91.4	0.308	70 - 130	20	70 - 130	20
MTBE	ND	10	123	119	3.03	115	117	1.39	70 - 130	20	70 - 130	20
Benzene	ND	10	113	116	3.04	108	110	1.98	70 - 130	20	70 - 130	20
Toluene	ND	10	97.9	103	4.79	98.4	96.1	2.38	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	99.3	103	3.65	98.2	96.7	1.51	70 - 130	20	70 - 130	20
Xylenes	ND	30	111	116	4.40	111	109	2.23	70 - 130	20	70 - 130	20
%SS:	98	10	102	105	3.20	100	101	0.382	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54092 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010787-001A	10/28/10 12:00 PM	10/30/10	10/30/10 2:09 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes, Livermore	Date Sampled: 11/04/10
		Date Received: 11/04/10
	Client Contact: James Allen	Date Reported: 11/05/10
	Client P.O.:	Date Completed: 11/05/10

WorkOrder: 1011159

November 05, 2010

Dear James:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#160; 160 Holmes, Livermore,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

RUSH

1011159

Per email 11/5/10

ALLTERRA
849 Almar Avenue, Suite C, #281
Santa Cruz, California 95060
Website: www.allterraenv.com
Phone: (831) 425-2608 Facsimile: (831) 425-2609

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR 72HR 5 Day

Report and Bill to: Allterra Environmental, Inc.
Project Number:
Project Location: 160 Holmes, Livermore, CA
Project Name: 160
Sampler Signature:

Field Point Name / Sample ID	Sample Collection: Date	Sample Collection: Time	Sample Containers: Number of Containers	Sample Containers: Container Type	Matrix: Air	Matrix: Water	Matrix: Soil	Matrix: Sludge	Matrix: Other	Preservation: Ice	Preservation: HCl	Preservation: HNO_3	Preservation: Other	TPHg/ BTEX/ MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPHd (EPA 8015)	5-fuel oxys (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	Hardness/Total dissolved solids	CAM-17 Metals (EPA 6010/6020)	LUFT 5 Metals (EPA 6010/6020)	PAH's/ PNA's (EPA 8270,625/8310)	Fish Toxicity/Bioassay	Lead (EPA 6010/200.9/200.8)		EDF required
✓ Tank-2	11/4/2010		3	Voas		X				X	X			X														X

Sampled By: Devon Owens	Date: 11-4-10	Time: 1740	Received By:
Received By:	Date: 11/4/10	Time: 1900	Received By: 11/4/10 19:00
Received By:	Date:	Time:	Received By:

Comments:

ICE / t° 5.6°C ✓
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ✓ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

PRESERVATION	VOAS	O & G	METALS	OTHER
	✓			

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011159 **ClientCode: ATRS**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
James Allen
Allterra Environmental, Inc
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
831-425-2608 FAX 831-425-2609

Email: allterraenvironmental@yahoo.com, micah
cc:
PO:
ProjectNo: #160; 160 Holmes, Livermore

Bill to:
Accounts Payable
Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060

Requested TAT: 3 days

Date Received: **11/04/2010**
Date Printed: **11/05/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1011159-001	Tank-2	Water	11/4/2010	☐	A	A										

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Shino Hamilton

Comments: changed to 72hr per email 11/05/10.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Allterra Environmental, Inc**
Date and Time Received: **11/4/2010 7:05:46 PM**
Project Name: **#160; 160 Holmes, Livermore**
Checklist completed and reviewed by: Shino Hamilton
WorkOrder N°: **1011159** Matrix Water
Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes, Livermore	Date Sampled: 11/04/10
		Date Received: 11/04/10
849 Almar Ave, Ste. C #281	Client Contact: James Allen	Date Extracted: 11/05/10
Santa Cruz, CA 95060	Client P.O.:	Date Analyzed: 11/05/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1011159

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	Tank-2	W	ND	ND	ND	ND	ND	ND	1	102	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

CC for Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54197 WorkOrder 1011159

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1011098-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	93.1	95	2.08	95.5	93.9	1.66	70 - 130	20	70 - 130	20
MTBE	ND	10	121	119	1.81	113	125	10.2	70 - 130	20	70 - 130	20
Benzene	ND	10	110	107	3.34	104	112	6.95	70 - 130	20	70 - 130	20
Toluene	ND	10	99.7	95.3	4.59	94.9	102	7.02	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	101	96.6	4.38	95.4	101	5.42	70 - 130	20	70 - 130	20
Xylenes	ND	30	115	109	4.77	108	114	5.49	70 - 130	20	70 - 130	20
%SS:	96	10	99	97	2.53	99	100	0.633	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54197 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011159-001A	11/04/10	11/05/10	11/05/10 2:56 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

DHS ELAP Certification 1644

CC for _____ QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes, Livermore	Date Sampled: 11/04/10
		Date Received: 11/04/10
849 Almar Ave, Ste. C #281	Client Contact: James Allen	Date Reported: 11/09/10
Santa Cruz, CA 95060	Client P.O.:	Date Completed: 11/09/10

WorkOrder: 1011160

November 09, 2010

Dear James:

Enclosed within are:

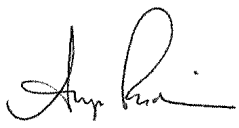
1) The results of the **1** analyzed sample from your project: **#160; 160 Holmes, Livermore,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

RUSH

1011160

Per email 11/5/10

ALLTERRA
849 Almar Avenue, Suite C, #281
Santa Cruz, California 95060
Website: www.allterraenv.com
Phone: (831) 425-2608 Facsimile: (831) 425-2609

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR 72HR 5 Day

Report and Bill to: Allterra Environmental, Inc.
Project Number:
Project Location: 160 Holmes, Livermore, CA
Project Name: 160
Sampler Signature:

Field Point Name / Sample ID	Sample Collection: Date	Sample Collection: Time	Sample Containers: Number of Containers	Sample Containers: Container Type	Matrix: Air	Matrix: Water	Matrix: Soil	Matrix: Sludge	Matrix: Other	Preservation: Ice	Preservation: HCl	Preservation: HNO_3	Preservation: Other	TPHg/ BTEX/ MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPHd (EPA 8015)	5-fuel oxys (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	Hardness/Total dissolved solids	CAM-17 Metals (EPA 6010/6020)	LUFT 5 Metals (EPA 6010/6020)	PAH's/ PNA's (EPA 8270,625/8310)	Fish Toxicity/Bioassay	Lead (EPA 6010/200.9/200.8)		EDF required
GW-IN	11/4/2010		3	Voas		X				X	X			X														X

Sampled By:	Date:	Time:	Received By:
Devon Owens	11-4-10	1740	
Received By:	Date:	Time:	Received By:
	11/4/10	1900	11/4/10 19:00
Received By:	Date:	Time:	Received By:

Comments:

ICE / t° 5.6°C
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ✓ CONTAINERS ___
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION VOAS ✓ | O & G | METALS | OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011160 **ClientCode: ATRS**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
James Allen
Allterra Environmental, Inc
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
831-425-2608 FAX 831-425-2609

Email: allterraenvironmental@yahoo.com, micah
cc:
PO:
ProjectNo: #160; 160 Holmes, Livermore

Bill to:
Accounts Payable
Allterra Environmental
849 Almar Ave, Ste. C #281
Santa Cruz, CA 95060
micah@allterraenv.com

Requested TAT: 3 days

Date Received: **11/04/2010**
Date Printed: **11/05/2010**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1011160-001	GW-IN	Water	11/4/2010	☐	A	A										

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Shino Hamilton

Comments: changed to 72hr per email 11/05/10.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Allterra Environmental, Inc**

Date and Time Received: **11/4/2010 7:17:27 PM**

Project Name: **#160; 160 Holmes, Livermore**

Checklist completed and reviewed by: Shino Hamilton

WorkOrder N°: **1011160** Matrix Water

Carrier: Derik Cartan (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.6°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Allterra Environmental, Inc	Client Project ID: #160; 160 Holmes, Livermore	Date Sampled: 11/04/10
		Date Received: 11/04/10
849 Almar Ave, Ste. C #281	Client Contact: James Allen	Date Extracted: 11/05/10-11/08/10
Santa Cruz, CA 95060	Client P.O.:	Date Analyzed: 11/05/10-11/08/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1011160

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	GW-IN	W	790	6900	20	3.0	39	76	1	113	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 1644

CC for Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54197 WorkOrder 1011160

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 1011098-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	93.1	95	2.08	95.5	93.9	1.66	70 - 130	20	70 - 130	20
MTBE	ND	10	121	119	1.81	113	125	10.2	70 - 130	20	70 - 130	20
Benzene	ND	10	110	107	3.34	104	112	6.95	70 - 130	20	70 - 130	20
Toluene	ND	10	99.7	95.3	4.59	94.9	102	7.02	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	101	96.6	4.38	95.4	101	5.42	70 - 130	20	70 - 130	20
Xylenes	ND	30	115	109	4.77	108	114	5.49	70 - 130	20	70 - 130	20
%SS:	96	10	99	97	2.53	99	100	0.633	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54197 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011160-001A	11/04/10	11/05/10	11/05/10 6:56 PM	1011160-001A	11/04/10	11/08/10	11/08/10 7:02 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

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