RECEIVED
By Alameda County Environmental Health at 8:58 am, Feb 07, 2013

Mr. Jerry Wickham
Alameda County
Environmental Health D partment
1131 Harbor Bay Parkw y, Suite 250
Alameda, California 94 02-6577

Re: B&C Gas Mini M rt, 2008 First Street, Livermore, California
(ACEHD Case No RO0000278)

Dear Mr. Wickham:

Stratus Environmental, I c. (Stratus) has recently prepared a document titled *Remediation Status Report, Fourth Q arter 2012* on my behalf. The report was prepared in regards to Alameda County Fuel L ak Case No. RO0000278, located at 2008 First Street, Livermore, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and "I declare, under penalty o perjury, that the information and or/recommendations contained in the attached documen or report is true and correct to the best of my knowledge."

Sincerely,

Balaji Angle
B&C Gas Mini Mart

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

January 15, 2013
Project No. 2146-2008-01

Mr. Jerry Wickham
Alameda County
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Remediation Status Report, Fourth Quarter 2012,** Former B&C Gas Mini Mart, located at 2008 First Street, Livermore, California (ACEHD Case No. RO0000278)

Dear Mr. Wickham:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, on behalf of Mr. Balaji Angle, to document work performed during the fourth quarter 2012 at the former B&C Gas Mini Mart, located at 2008 First Street, Livermore, California. This report has been prepared in compliance with Alameda County Environmental Health Department (ACEHD) requirements for underground storage tank (UST) investigations. Stratus representatives, whose signatures appear below, declare under penalty of perjury, that the information contained in the attached report are true and correct to the best of our knowledge.

If you have any questions regarding this report, please contact Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

REGISTERED GEOLOGIST
Scott G. Bittinger
No. 7477
STATE OF CALIFORNIA

Scott G. Bittinger, P.G.
Project Manager

Gowri S. Kowtha, P.E.
Principal Engineer

Attachment: Remediation Status Report, Fourth Quarter 2012

cc: Mr. Balaji Angle, B&C Gas Mini Mart

Date January 15, 2013

B&C GAS MINI MART
REMEDIATION STATUS REPORT

Facility Address: 2008 First Street, Livermore, California

Consulting Co./Contact Person: Stratus Environmental, Inc. / Scott Bittinger, P.G.

Consultant Project No: 2146-2008-01

Primary Agency/Regulatory ID No: Alameda County Environmental Health Department (ACEHD) / Case No. RO0000278

WORK PERFORMED THIS PERIOD (Fourth Quarter 2012):

1. During the fourth quarter 2012, Stratus continued operation of the ozone (O_3) injection groundwater remediation system. Stratus completed a total of six site visits to verify system operation, conduct routine maintenance, and to periodically collect monitoring data from the well array to gauge system effectiveness and maintain permit compliance. Operational parameters and field data collected are summarized in Tables 1 and 2. Field data sheets prepared during each site visit are included as Appendix A.

2. Between December 17 and 27, 2012, Stratus directed the overdrilling of damaged well MW-6, and construction of wells SVE-2, SVE-3A/B, and SVE-4A/B.

3. Stratus submitted an application to Pacific Gas & Electric Company (PG&E) requesting a 3-phase power supply to enable performance of future soil vapor extraction (SVE) remedial work.

WORK PROPOSED FOR NEXT PERIOD (First Quarter 2013):

1. Continue operation of the O_3 remediation system during the first quarter 2013. Stratus will continue to visit the site at least every other week to verify operation, conduct maintenance, and periodically collect monitoring data/samples from observation wells to gauge system effectiveness. Nearby wells SVE-3A/B and SVE-4A/B will be added to the well network used to assess the effectiveness of the current remediation system.

2. The first quarter 2013 groundwater monitoring and sampling event will be performed. Wells SVE-3A/B and SVE-4A/B will be developed prior to the scheduled monitoring and sampling date.

3. A well installation and destruction report will be prepared and submitted to document the recent drilling work.

4. Stratus will continue to implement work activities necessary to begin SVE remedial efforts, including obtaining a power supply for the equipment.

Current Phase of Project: Groundwater Monitoring, Onsite Ozone Injection (CAP/REM – O&M), near source SVE has been approved by ACEHD.

Frequency of Groundwater Sampling: MW-2 though MW-5, MW-7 MW-13, CMT-1 Z1, CMT-2 Z1, CMT-3 Z1, and CMT-4 Z2= semi-annually (first & third calendar quarter); MW-8 through MW-12 and D-2 = annually (first calendar quarter); wells SVE-3A/B and SVE-4A/B to be sampled periodically, exact schedule will be dependent upon whether or not SVE remediation is being performed using these wells for extraction.

Frequency of Groundwater Monitoring:	MW-2, MW-3, MW-4, SVE-3A, SVE-3B, SVE-4A, SVE-4B = quarterly All wells = semi-annual (1st & 3rd)

IN-SITU GROUNDWATER REMEDIATION SYSTEM

Equipment Inventory:	Calcon Environmental (Calcon) HiPro™ 2500 Ozone Injection System
Ozone Injection System Status:	Non-Operational until February 28, 2012; Operational since February 28, 2012.
Injection wells:	SP-1A/B, SP-2A/B, SP-4A/B (ozone not being injected into well SP-3A/B). Offsite wells SP-5 A/B/C and SP-6 A/B/C not connected to remediation system).

DISCUSSION: REMEDIATION SYSTEM

Ozone Injection System Description Fourth Quarter 2012 Operation and Maintenance

A Calcon HiPro™ 2500 ozone injection system is currently being used to inject air and ozone to mitigate petroleum hydrocarbon impact to the groundwater. The remediation system is situated within a locked, fenced remedial compound located immediately adjacent to the convenience store building on the property (see Figure 2). The system is currently configured to cyclically inject an air/ozone mixture into wells SP-1A/B, SP-2A/B, and SP-4A/B. Subgrade piping with conveyance tubing extends from the remediation compound area to well SP-3A/B, however, this tubing is not currently connected to the ozone injection system. Conveyance piping and tubing has not been installed to offsite wells SP-5A/B/C or SP-6A/B/C.

Stratus personnel visited the site on October 1 and 16, November 5 and 19, and December 4 and 18, 2012 in order to inspect and repair the ozone injection system, re-start the system for continuous operation, and perform operation and maintenance visits on the equipment. Field data sheets documenting observations and work performed by Stratus personnel are included in Appendix A.

During the fourth quarter 2012, there were no monitoring wells available down gradient of the area of injection to evaluate the effectiveness of the ozone injection wells, SP-1, SP-2 and SP-4. The closest monitoring well that was being used to record and evaluate the effectiveness of ozone is MW-2. In addition, Stratus is collecting field parameters (pH, DO, ORP and temperature) at offsite wells MW-5 and injection well SP-5 A/B/C. The data collected from these wells does not yield adequate information to evaluate the effectiveness of the system (the monitoring points are either up gradient or too far down gradient). Installation of SVE-3A/B and SVE-4A/B, and adding these wells to the monitoring program, should improve our ability to evaluate performance of the ozone injection system.

ATTACHMENTS:

- Table 1 Ozone Injection System – Operational Summary
- Table 2 Ozone Injection System – Summary of Field Data
- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Site Vicinity Map
- Appendix A Field Data Sheets

TABLE 1
Ozone Injection System --- Operational Summary
B&C Gas Mini Mart, 2008 First Street, Livermore, CA

Date	O_3 System Status (arrive/depart)	Hour Meter Reading	O_3 plus air Flowrate	Injection Pressure	Oxygen Flowrate
			(scfm)	(psi)	(scfh)
02/28/12	Off/On[1]	0.0	1.2	15.0	--
03/06/12	On/On	--	1.0	37.0	--
03/29/12	Off/On[2]	0.8	3.8	6.0	12.0
04/10/12	Off/On[3]	6.7	4.0	11.0	11.0
04/23/12	On/On	214.2	2.5	5.0	13.0
05/07/12	On/On	365.6	2.6	8.0	12.0
05/22/12	Off/On[3]	372.0	4.1	6.0	12.0
05/31/12	Off/On[4]	380.0	4.4	12.0	12.0
06/04/12	Off/On[5]	386.0	4.4	13.0	12.0
06/20/12	Off/On[6]	387.4	4.2	12.0	12.0
07/03/12	Off/On	396.7	4.4	9.0	12.0
07/23/12	Off/On[4]	397.1	5.0	13.0	12.0
08/06/12	Off/On[4]	399.3	3.4	14.0	12.0
08/23/12	Off/On[4]	402.0	2.0	5.0	12.0
09/03/12	Off/On	408.5	3.2	3.0	12.0
09/20/12	Off/Off	540.0	--	--	--
10/01/12	On/On	634.7	4.1	4.0	12.0
10/16/12	On/On	985.7	4.5	16.0	12.0
11/05/12	On/On	1410.0	4.4	6.0	18.0
11/19/12	Off/On[7]	1521.4	4.5	14.0	12.0
12/04/12	On/On[8]	1522.9	4.3	40.0	12.0
12/18/12	Off/On[9]	0.50	5.0	26.0	12.0
Average			3.7	13.4	12.3

Legend:
O_3 = ozone
psi = pounds per square inch
scfm = standard cubic feet per minute
scfh = standard cubic feet per hour
-- = not measured/not applicable

Notes:

[1] System was originally shut down on December 28, 2011 due to a bad compressor. On January 18, 2012 a field visit to repair the compressor was completed, however, the existing compressor was unable to be repaired. Remediation system re-started Feburary 28, 2012 after replacing the compressor. Ozone system was re-started with a zero hour meter reading.

[2] System down upon arrival, compressor replaced.

[3] System down upon arrival, due to high temp, restart system.

[4] System down upon arrival, restart system.

[5] System down upon arrival due to lack of power, restart system.

[6] System down upon arrival due to high temp, tarp installed over compound to shade unit from sun, and restart system.

[7] System down upon arrival. Loose wire on compressor. Repair, restart system.

[8] System hour meter reset to zero, prior to departure.

[9] System down upon arrival due to high air flow, restart system.

1. Ozone system has a total of 8 ports available, six are currently connected to injection wells (SP-1A/B, SP-2A/B, and SP-4A/B) as of May 22, 2012.
2. Ozone injection duration set at 10 minutes per well.

TABLE 2

Ozone Injection System --- Summary of Field Data

B&C Gas Mini Mart, 2008 First Street, Livermore, CA

Well Number	Date[1]	Number of Days Since Re-Start	Depth to Water (ft)	DO (mg/L)	Temp. (°C)	pH	Specific Conductivity (µS/cm)	ORP (mV)
MW-2	04/10/12	42	38.56	1.05	17.8	7.39	797	327
	04/23/12	55	36.84	2.26	19.1	7.16	738	168
	05/07/12	69	37.11	3.75	19.3	6.58	696	302
	05/22/12	84	37.81	1.06	18	6.94	706	303
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	38.37	2.77	18.8	7.01	694	217
	06/20/12	113	--	--	--	--	--	--
	07/03/12	126	39.94	2.13	18.7	6.73	687	209
	07/23/12	146	40.55	4.35	19.0	6.96	644	371
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	41.05	1.33	18.9	7.03	576	333
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	41.40	1.92	17.7	7.00	502	326
	10/01/12	216	39.62	2.83	18.9	7.23	498	333
	10/16/12	231	39.60	3.48	19.1	6.97	500	374
	11/05/12	251	40.68	4.50	19.1	7.06	452	361
	11/19/12	265	40.23	0.75	18.8	7.59	430	349
	12/04/12	280	36.82	3.80	18.5	6.86	403	377
	12/18/12	294	34.65	0.73	17.8	7.02	415	357
MW-3	04/10/12	42	37.69	0.60	18.1	6.89	721	357
	04/23/12	55	35.90	1.26	18.9	6.99	706	166
	05/07/12	69	36.25	1.95	18.8	6.71	701	297
	05/22/12	84	36.89	1.29	18.1	7.08	702	305
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	37.41	2.00	18.6	7.12	688	214
	06/20/12	113	--	--	--	--	--	--
	07/03/12	126	38.98	2.50	18.3	7.04	7	199
	07/23/12	146	39.52	4.36	18.7	6.93	630	368
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	40.23	0.96	18.5	7.04	553	331
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	40.35	1.25	17.1	6.96	488	315
	10/01/12	216	40.28	0.80	18.5	7.19	493	337
	10/16/12	231	40.03	0.93	18.7	6.90	498	376
	11/05/12	251	39.52	0.80	18.6	7.02	450	362
	11/19/12	265	39.24	0.45	18.4	7.23	427	351
	12/04/12	280	35.77	0.73	18.0	7.00	404	376
	12/18/12	294	33.72	1.00	17.5	7.11	411	359
MW-5	04/10/12	42	--	--	--	--	--	--
	04/23/12	55	--	--	--	--	--	--
	05/07/12	69	--	--	--	--	--	--
	05/22/12	84	37.27	1.24	18.1	6.94	910	259
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	--	--	--	--	--	--
	06/20/12	113	--	--	--	--	--	--

TABLE 2
Ozone Injection System --- Summary of Field Data
B&C Gas Mini Mart, 2008 First Street, Livermore, CA

Well Number	Date[1]	Number of Days Since Re-Start	Depth to Water (ft)	DO (mg/L)	Temp. (°C)	pH	Specific Conductivity (µS/cm)	ORP (mV)
	07/03/12	126	38.75	12.20	18.3	7.20	814	282
	07/23/12	146	--	--	--	--	--	--
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	--	--	--	--	--	--
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	39.00			*Dry*		
	10/01/12	216	--	--	--	--	--	--
	10/16/12	231	--			*Dry*		
	11/05/12	251	--			*Dry*		
	11/19/12	265	--	--	--	--	--	--
	12/04/12	280	--	--	--	--	--	--
	12/18/12	294	--	--	--	--	--	--
SP-5A	04/10/12	42	37.87	1.94	18.1	6.69	924	334
	04/23/12	55	36.15	1.80	19.2	6.83	538	174
	05/07/12	69	36.58	1.81	18.8	6.49	716	323
	05/22/12	84	36.75	0.94	18.0	6.61	745	292
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	36.70	3.31	18.2	7.02	872	299
	06/20/12	113	--	--	--	--	--	--
	07/03/12	126	38.82			*Dry*		
	07/23/12	146	--			*Dry*		
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	--			*Dry*		
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	--	--	--	--	--	--
	10/01/12	216	39.00			*Dry*		
	10/16/12	231	--			*Dry*		
	11/05/12	251	--			*Dry*		
	11/19/12	265	--	--	--	--	--	--
	12/04/12	280	36.90	1.50	17.8	7.09	126.8	360
	12/18/12	294	34.18	1.04	17.2	6.97	415.0	359
SP-5B	04/10/12	42	37.99	1.59	18.6	6.76	692	298
	04/23/12	55	36.02	1.65	18.8	7.15	691	128
	05/07/12	69	36.37	2.06	18.1	6.33	1420	290
	05/22/12	84	37.02	0.97	18.8	6.24	151.5	278
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	37.58	3.06	18.1	7.44	692	334
	06/20/12	113	--	--	--	--	--	--
	07/03/12	126	39.15	7.14	18.6	6.99	467	188
	07/23/12	146	39.65	4.33	19.3	7.49	220	346
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	40.33	0.94	18.9	7.66	384	322
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	--	--	--	--	--	--
	10/01/12	216	42.50	0.82	18.8	7.42	415	316

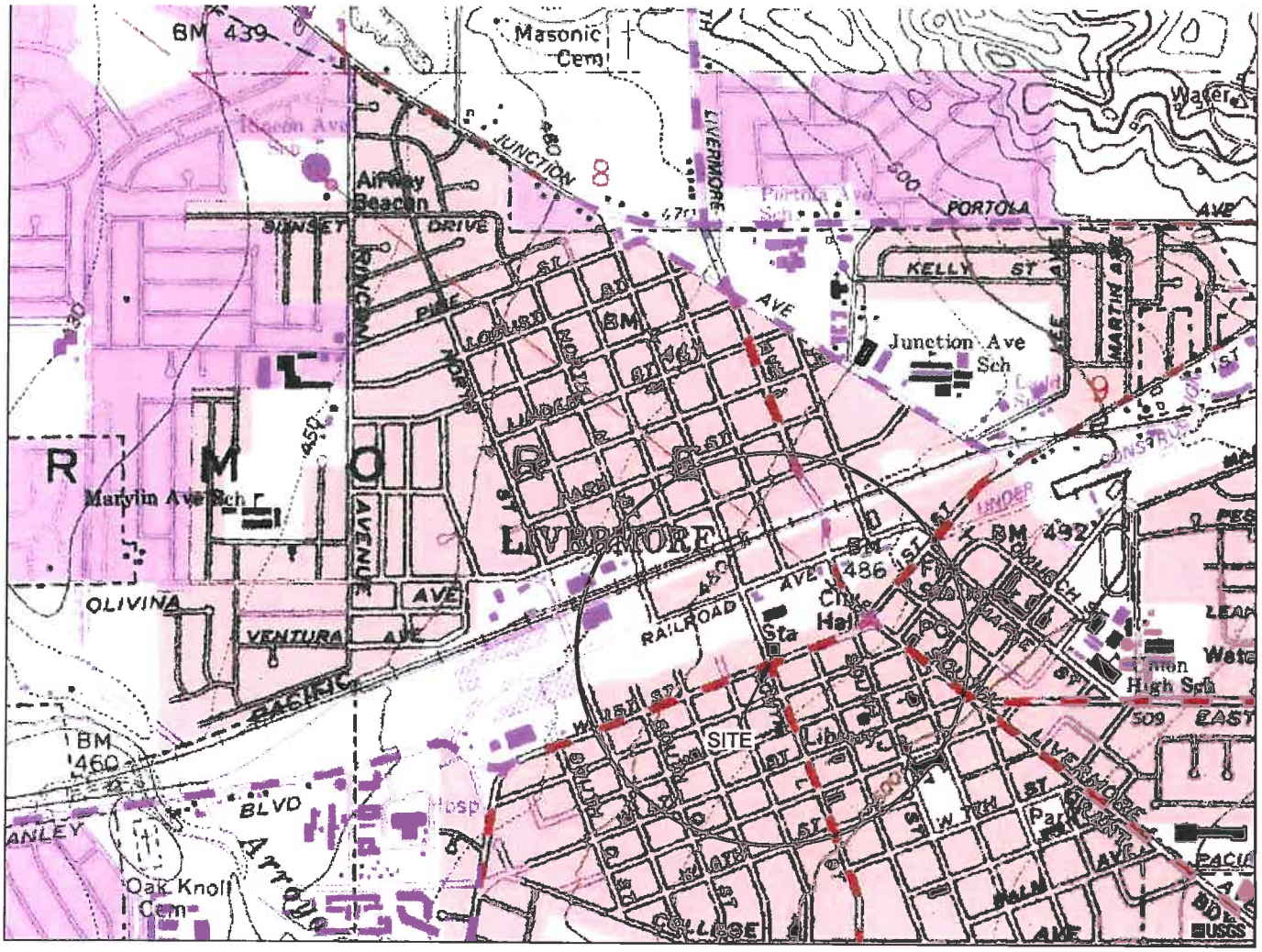
TABLE 2
Ozone Injection System --- Summary of Field Data
B&C Gas Mini Mart, 2008 First Street, Livermore, CA

Well Number	Date[1]	Number of Days Since Re-Start	Depth to Water (ft)	DO (mg/L)	Temp. (°C)	pH	Specific Conductivity (µS/cm)	ORP (mV)
	10/16/12	231	40.27	1.70	18.7	7.02	482	360
	11/05/12	251	39.77	1.00	18.5	7.16	382	364
	11/19/12	265	--	--	--	--	--	--
	12/04/12	280	36.11	0.92	17.3	7.44	393	358
	12/18/12	294	34.02	1.15	16.4	7.58	526	349
SP-5C	04/10/12	42	37.62	2.04	18.6	7.14	697	366
	04/23/12	55	35.77	2.00	18.4	7.50	578	10
	05/07/12	69	36.00	3.23	18.6	6.37	189	242
	05/22/12	84	36.53	1.65	18.4	6.65	182	264
	05/31/12	93	--	--	--	--	--	--
	06/04/12	97	37.35	3.10	18.6	7.51	216	328
	06/20/12	113	--	--	--	--	--	--
	07/03/12	126	38.84	13.09	18.2	6.82	320	192
	07/23/12	146	40.53	4.88	19.1	8.00	301	314
	08/06/12	160	--	--	--	--	--	--
	08/23/12	177	39.99	0.97	18.4	8.24	529	318
	09/03/12	188	--	--	--	--	--	--
	09/20/12	205	--	--	--	--	--	--
	10/01/12	216	42.30	100.00	18.5	7.54	517	290
	10/16/12	231	39.95	1.57	18.6	7.01	432	349
	11/05/12	251	39.56	1.30	18.1	7.21	435	369
	11/19/12	265	--	--	--	--	--	--
	12/04/12	280	35.90	1.90	17.3	8.00	262	345
	12/18/12	294	35.75	1.15	16.3	7.94	82.1	347

Legend:
ft = feet
DO = dissolved oxygen
mg/L = milligrams per liter
Temp. = temperature
°C = degrees Celsius
µS/cm = microSiemens per centimeter
ORP = oxidation reduction potential
mV = millivolts

Temp., pH, specific conductivity, and ORP measurements recorded without purging.

[1] System was originally shut down on December 28, 2011 and re-started Feburary 28, 2012. Additional field parameters to monitor ozone systems remediation on groundwater were attained beginning April 10, 2012.



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
LIVERMORE, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1999

N

QUADRANGLE LOCATION

0 1800 FT

APPROXIMATE SCALE

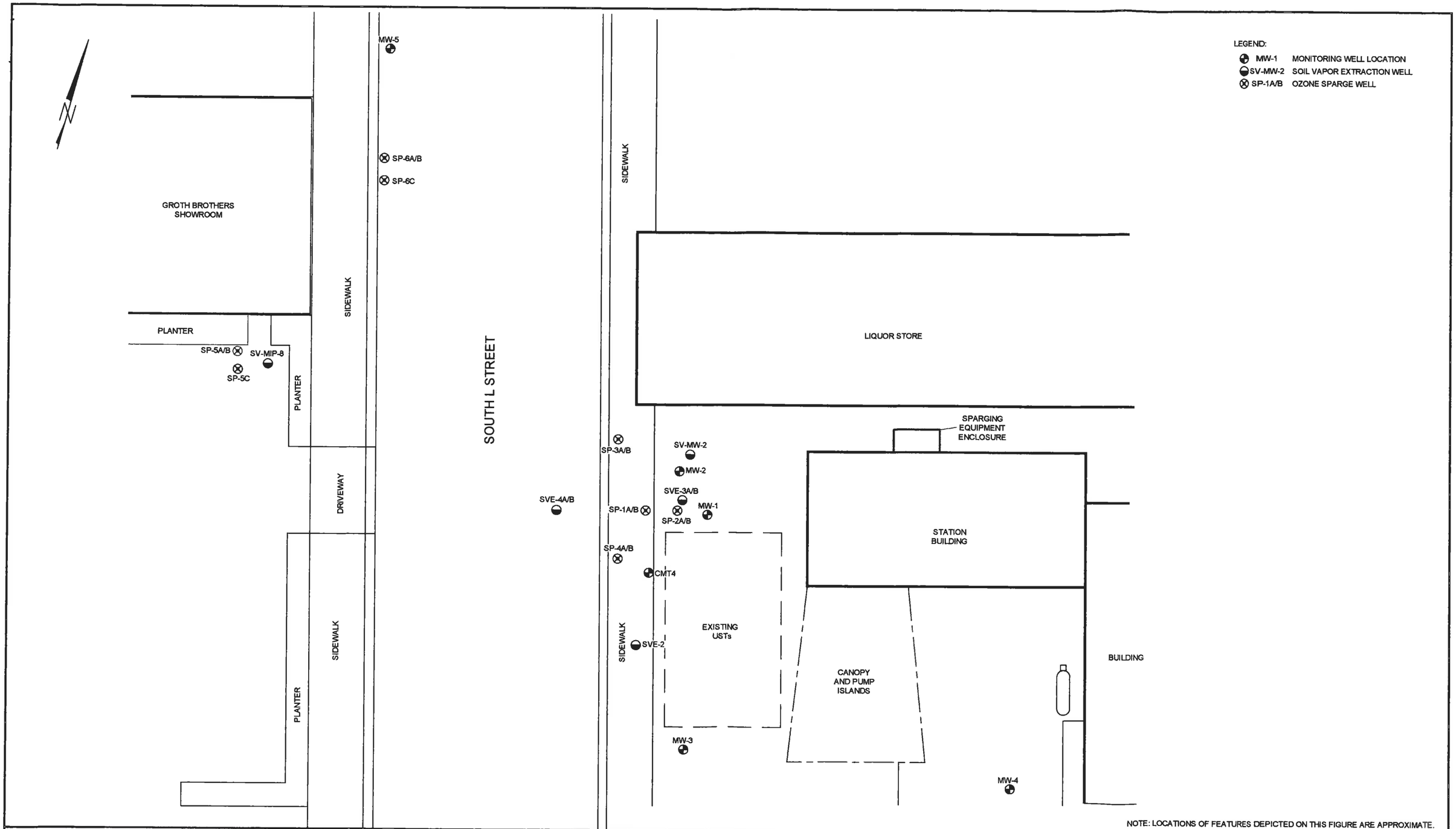
STRATUS
ENVIRONMENTAL, INC.

B & C GAS MINI MART
2008 FIRST STREET
LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE
1

PROJECT NO.
2146-2008-01



NOTE: LOCATIONS OF FEATURES DEPICTED ON THIS FIGURE ARE APPROXIMATE.

STRATUS ENVIRONMENTAL, INC.

0 20 FT

APPROXIMATE SCALE

B & C GAS MINI MART
2008 1st STREET
LIVERMOORE, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2146-2008-01

STRATUS ENVIRONMENTAL, INC.

0 200 FT

APPROXIMATE SCALE

B & C GAS MINI MART
2008 1st STREET
LIVERMORE, CALIFORNIA

SITE VICINITY MAP

FIGURE
3

PROJECT NO.
2146-2008-01

APPENDIX A

FIELD DATA SHEETS

B+C GAS Mini Mart
2008 First Street, Livermore

Ozone Injection System

Date: 10-1-12
Onsite Time: 0640
Offsite Time: 0735
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: clear
Ambient Temperature: 60

Ozone Generator Panel:

System Status Upon Arrival: ☒ Operational ☐ Non-operational
System Status Upon Arrival: ☒ Operational ☐ Non-operational
Hour Meter Reading: 634.7
Oxygen flow rate: 12 SCFM
Injection Pressure: 4 psi
Air + ozone flow rate: 4.1 CFM

10 min Each well

Field Measurments

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Cond. msiemen	ORP mV	Temp deg F
SP 5A		39.00	DRY				
5B		42.50	7.42	0.82	415	316	18.8
5C		42.30	7.54	100	517	290	18.3
				~~1.00~~			
MW2		39.62	7.23	2.83	498	333	18.9
MW 3		40.28	7.19	0.80	493	337	18.5

Signature: CHILL
Date: 10-1-12

System WAS Restarted

B+C GAS Mini Mart
2008 First Street, Livermore

ORIGINAL

Ozone Injection System

Date: 10-16-12
Onsite Time: 0615
Offsite Time: 0730
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 55

Ozone Generator Panel:

System Status Upon Arrival: ☒ Operational ☐ Non-operational
System Status Upon Arrival: ☒ Operational ☐ Non-operational
Hour Meter Reading: 985.7
Oxygen flow rate: 12 scfh
Injection Pressure: 16 #3
Air + ozone flow rate: 4.5 cfm

Field Measurments

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Cond. msiemen	ORP mV	Temp deg F
SP-5C		39.95	7.01	1.57	432	349	18.6
" 5B		40.27	7.02	1.70	482	360	18.7
5A		DRY					
MW 5		DRY					
MW 2		39.60	6.97	3.48	500	374	19.1
MW 3		40.03	6.90	18.93	498	376	18.7

Signature: CHILL
Date: 10-16-12

PTI
PBA-50g-DI-120V-1Ø-400W-50 psi-10 Lpm-DZ1

B+C GAS Mini Mart
2008 First Street, Livermore ORIGINAL

Ozone Injection System

Date: 11-5-12
Onsite Time: 0720
Offsite Time: 0830
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 58

Ozone Generator Panel:

System Status Upon Arrival: ☒ Operational ☐ Non-operational
System Status Upon Arrival: ☒ Operational ☐ Non-operational

Hour Meter Reading: 1,410
Injection Pressure: 6
Oxygen flow rate: 1.8 scfm
Air + ozone flow rate: 4.4 scfm

Field Measurments

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Cond. msiemen	ORP mV	Temp deg F
SP 5C		39.56	7.21	1.30	435	369	18.1
5B		39.77	7.16	1.00	382	364	18.5
5A		Dry					
MW 5		Dry					
MW 2		40.68	7.06	4.50	452	361	19.1
MW 3		39.52	7.02	2.80	450	362	18.6

Signature: CHILL
Date: 11-5-12

ORIGINAL

B+C GAS Mini Mart
2008 First Street, Livermore

Ozone Injection System

Date: 11-9-12
Onsite Time: 0930
Offsite Time: 1030
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 65°

Ozone Generator Panel:

System Status Upon Arrival: ☐ Operational ☒ Non-operational
System Status Upon Arrival: ☒ Operational ☐ Non-operational
Hour Meter Reading: 1521.4
Injection Pressure: 14 #3
Oxygen flow rate: 12
Air + ozone flow rate: 4.5

Field Measurments

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Cond. msiemen	ORP mV	Temp deg F
SP5C							
5B	Truck	down					
5A							
mw 2		40.23	7.59	0.79	430	349	18.8
mw 3		39.24	7.23	0.45	427	351	18.4

Loose wire on comp. Repair Running good

Signature: CHILL
Date: 11-9-12

B+C GAS Mini Mart
2008 First Street, Livermore

ORIGINAL

Ozone Injection System

Date: 12-4-12
Onsite Time: 0655
Offsite Time: 0845
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: Clear
Ambient Temperature: 50

Ozone Generator Panel:

System Status Upon Arrival: ☒ Operational ☐ Non-operational
System Status Upon Arrival: ☒ Operational ☐ Non-operational

Hour Meter Reading: 1522.9
Oxygen flow rate: 12
Injection Pressure: 40
Air + ozone flow rate: 4.3 #3

Reset Hour meter To 0 Zero

Field Measurments

Well ID	Time	DTW	pH	DO	Cond.	ORP	Temp
		feet bgs	units	mg/L	msiemen	mV	deg F
SP 5C		35.90	8.00	1.90	262	345	17.3
5B		36.11	7.44	0.92	393	358	17.3
5A		36.90	7.09	1.50	126.8	360	17.8
mw 2		36.82	6.86	3.80	403	377	18.5
mw 3		35.77	7.00	0.73	404	376	18.0

Signature: CHILL
Date: 12/4/12

B+C GAS Mini Mart
2008 First Street, Livermore

Ozone Injection System

ORIGINAL

Date: 12-18-12
Onsite Time: 0900
Offsite Time: 0700
Equipment Manufacturer/Model#:

Technician: CHILL
Weather Conditions: Cloudy
Ambient Temperature: 50

Ozone Generator Panel:

System Status Upon Arrival: ☐ Operational ☒ Non-operational (High Air Flow)
System Status Upon Arrival: ☒ Operational ☐ Non-operational
Hour Meter Reading: 02.5
Oxygen flow rate: 12
Injection Pressure: 26
Air + ozone flow rate: 5.0 #1

Field Measurments

Well ID	Time	DTW feet bgs	pH units	DO mg/L	Cond. msiemen	ORP mV	Temp deg F
SP-5C		35.75	7.94	1.15	82.1	347	16.3
5B		34.02	7.58	1.15	526	349	16.41
5A		34.18	6.97	1.04	415	359	17.2
MW 2		34.65	7.02	0.73	415	357	17.8
MW 3		35.72	7.11	1.00	411	359	17.5

Signature: CHILL
Date: 12/18/12