Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-4
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.89
Client: R&C Brown Associates	Total Well Depth (TD): 17'
Sampler: CTC	Well Diameter: 2"
Date: 5/31/18	Purge Rate (< 0.5L/min): 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
919	5.79	3597	3.40	17.05	37.4	3.89	.3	
921	5.79	3552	2.85	17.79	40.4	3.89	.6	
923	5.78	3547	2.52	17.97	43.7	3.89	.9	
925	5.79	3538	2.25	17.96	46.2	3.89	1.2	
927	5.79	3536	2.09	18.10	47.9	3.89	1.5	
929	5.78	3530	2.00	18.21	50.5	3.89	1.7	
931	5.79	3525	1.95	18.21	52.8	3.89	1.9	

Did Well Dewater?	NO	Start Purge Time:	915	DTW prior to sample:	3.89
Total Liters Purged:	1.9	Stop Purge Time:	931	Start Sample Time:	933
Total Sample Volume:	0.16	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-5
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.10
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-31-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
906	6.78	1610	0.59	17.8	71.4	4.15	0.9	
909	6.70	1605	0.35	17.8	79.2	4.15	1.8	
914	6.65	1601	0.26	17.7	88.3	4.15	3.3	
917	6.65	1615	0.23	17.8	91.7	4.15	4.2	
920	6.64	1627	0.23	17.9	94.2	4.15	5.1	

Did Well Dewater?	N	Start Purge Time:	903	DTW prior to sample:	4.15
Total Liters Purged:	5.1	Stop Purge Time:	920	Start Sample Time:	920
Total Sample Volume:	80mL	Odor:	N	Sheen:	N
Instrument ID(s):	FA 03042			Last Calibrated:	745

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-6
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.81'
Client: R&C Brown Associates	Total Well Depth (TD): 17'
Sampler: CTC	Well Diameter: 2"
Date: 5/31/18	Purge Rate (< 0.5L/min): ~0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
857	5.91	4879	1.53	17.78	-8.0	4.81	~~4.81~~ .3	
859	5.88	4881	1.46	17.94	-0.6	4.81	.6	
901	5.87	4880	1.39	17.94	6.1	4.82	.9	
903	5.86	4885	1.38	17.96	9.0	4.82	1.2	
905	5.87	4884	1.36	17.89	12.1	4.82	1.5	

Did Well Dewater?	NO	Start Purge Time:	855	DTW prior to sample:	4.82
Total Liters Purged:	1.5	Stop Purge Time:	905	Start Sample Time:	907
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-7
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.59'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~ 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1108	6.61	2041	4.31	18.61	61.8	3.66	.3	
1110	6.66	2173	3.26	18.26	57.2	3.66	.6	
1112	6.66	2249	2.71	18.29	56.5	3.67	.9	
1114	6.66	2255	2.49	18.34	56.0	3.67	1.2	
1116	6.67	2252	2.45	18.27	55.7	3.67	1.5	
1118	6.67	2247	2.37	18.22	55.3	3.67	1.8	

Did Well Dewater?	NO	Start Purge Time:	1106	DTW prior to sample:	3.67
Total Liters Purged:	1.8	Stop Purge Time:	1118	Start Sample Time:	1120
Total Sample Volume:	.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-8
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.17'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): n .15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1147	6.74	1247	3.03	18.65	56.4	4.20	.3	
1149	6.74	1244	2.68	18.68	57.3	4.20	.6	
1151	6.73	1239	2.64	18.70	57.7	4.20	.9	
1153	6.73	1238	2.62	18.68	58.1	4.20	1.2	

Did Well Dewater?	NO	Start Purge Time:	1145	DTW prior to sample:	4.20
Total Liters Purged:	1.2	Stop Purge Time:	1153	Start Sample Time:	1155
Total Sample Volume:	.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/2018

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-9
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.34'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1638	6.68	1242	2.73	20.20	79.1	3.34	.3	
1640	6.68	1236	2.64	20.19	80.8	3.34	.6	
1642	6.68	1238	2.59	20.12	81.7	3.34	.9	

Did Well Dewater?	NO	Start Purge Time:	1636	DTW prior to sample:	3.34
Total Liters Purged:	0.9	Stop Purge Time:	1642	Start Sample Time:	1645
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-22
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.98'
Client: R&C Brown Associates	Total Well Depth (TD): 20'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1507	6.53	1492	2.84	21.79	90.3	4.20	.3	
1509	6.52	1493	2.26	21.65	91.8	4.20	.6	
1511	6.52	1495	2.01	22.00	92.0	4.20	.9	
1513	6.52	1499	2.26	22.22	92.6	4.20	1.2	
1515	6.53	1494	2.17	21.54	94.2	4.20	1.5	

Did Well Dewater?	NO	Start Purge Time:	1505	DTW prior to sample:	4.20
Total Liters Purged:	1.5	Stop Purge Time:	1515	Start Sample Time:	1517
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-10
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.80'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1443	6.63	1280	2.77	20.73	81.7	3.80	0.3	
1445	6.62	1251	2.89	20.76	83.3	3.80	0.6	
1447	6.64	1248	2.88	21.28	84.5	3.80	0.9	
1449	6.65	1250	2.94	21.41	84.9	3.80	1.2	

Did Well Dewater?	NO	Start Purge Time:	1441	DTW prior to sample:	3.80
Total Liters Purged:	1.2	Stop Purge Time:	1449	Start Sample Time:	1450
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

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Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-12
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.80
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: UB	Well Diameter: 2"
Date: 5-31-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
930	6.76	1315	0.39	18.5	134.0	3.82	0.9	
933	6.73	1316	0.26	18.5	124.6	3.82	1.8	
936	6.72	1317	0.23	18.6	120.8	3.82	2.7	
939	6.72	1315	0.21	18.6	118.9	3.82	3.6	
942	6.71	1312	0.20	18.5	116.6	3.82	4.5	

Did Well Dewater?	N	Start Purge Time:	927	DTW prior to sample:	3.82
Total Liters Purged:	4.5	Stop Purge Time:	942	Start Sample Time:	942
Total Sample Volume:	80 mL	Odor:	N	Sheen:	N
Instrument ID(s):	FA03042			Last Calibrated:	745

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-13
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.11
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: YB	Well Diameter: 2"
Date: 5-31-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
842	6.79	1633	0.33	18.7	-74.2	5.20	1.2	
845	6.80	1635	0.30	18.7	-84.1	5.20	2.1	
848	6.81	1634	0.27	18.7	-91.2	5.20	3	
851	6.81	1637	0.26	18.6	-97.8	5.20	3.9	

Did Well Dewater?	N	Start Purge Time:	838	DTW prior to sample:	5.20
Total Liters Purged:	3.9	Stop Purge Time:	851	Start Sample Time:	851
Total Sample Volume:	160mL	Odor:	N	Sheen:	N
Instrument ID(s):	17A0342			Last Calibrated:	745

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-14
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.51
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-31	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
753	6.87	1586	0.73	18.9	261.3	5.61	0.9	
756	7.04	1566	0.51	18.8	255.2	6.91	1.8	
759	7.09	1562	0.42	18.8	249.3	6.91	2.7	
802	7.09	1560	0.38	18.9	235.1	6.91	3.6	
805	7.07	1563	0.31	18.8	210.1	6.91	4.5	
808	7.06	1565	0.30	18.7	200.1	6.91	5.4	
811	7.07	1564	0.32	18.6	200.0	6.91	6	

Did Well Dewater?	N	Start Purge Time:	750	DTW prior to sample:	6.91
Total Liters Purged:	6	Stop Purge Time:	811	Start Sample Time:	811
Total Sample Volume:	160mL	Odor:	N	Sheen:	N
Instrument ID(s):	FA 03042			Last Calibrated:	745

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

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Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-20
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.88'
Client: R&C Brown Associates	Total Well Depth (TD): 18'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~0.15L/MIN
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1242	6.78	1557	3.52	18.16	70.2	~~70.2~~ 3.89	.3	
1244	6.78	1551	2.59	18.03	70.1	3.89	.6	
1246	6.78	1549	2.37	18.12	69.9	3.90	.9	
1248	6.78	1550	2.28	18.20	69.7	3.90	1.2	

Did Well Dewater?	NO	Start Purge Time:	1240	DTW prior to sample:	3.90
Total Liters Purged:	1.2	Stop Purge Time:	1248	Start Sample Time:	1250
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

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Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-21
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.41
Client: R&C Brown Associates	Total Well Depth (TD): 20
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~ 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1409	6.67	1304	3.82	19.95	83.5	3.54	.3	
1411	6.68	1307	3.14	20.06	83.8	3.55	.6	
1413	6.68	1307	2.60	19.94	84.2	3.55	.9	
1415	6.67	1306	2.29	19.80	84.7	3.56	1.2	
1417	6.67	1307	2.21	20.06	84.8	3.56	1.5	
1419	6.65	1307	2.17	20.52	85.3	3.56	1.8	

Did Well Dewater?	NO	Start Purge Time:	1407	DTW prior to sample:	3.56
Total Liters Purged:	1.8	Stop Purge Time:	1419	Start Sample Time:	1420
Total Sample Volume:	0.08	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-25
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 5.05'
Client: R&C Brown Associates	Total Well Depth (TD): 20'
Sampler: CTC	Well Diameter: 2"
Date: 5/31/18	Purge Rate (< 0.5L/min): ~0.15L/MIN
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
748	6.63	1630	2.19	18.21	-55.6	5.38	.3	
750	6.83	1624	1.84	18.18	-102.7	5.39	.6	
752	6.86	1623	1.67	18.23	-114.3	5.39	.9	
754	6.88	1624	1.58	18.28	-125.7	5.39	1.2	
756	6.89	1625	1.52	18.30	-132.8	5.39	1.5	

Did Well Dewater?	NO	Start Purge Time:	746	DTW prior to sample:	5.39
Total Liters Purged:	1.5	Stop Purge Time:	756	Start Sample Time:	758
Total Sample Volume:	0.16	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

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Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-27
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.85'
Client: R&C Brown Associates	Total Well Depth (TD): 20'
Sampler: CTC	Well Diameter: 2"
Date: 5/31/18	Purge Rate (< 0.5L/min): ~0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
947	6.74	1339	2.89	18.32	37.0	4.02	.3	
949	6.76	1318	2.51	18.50	35.9	4.03	.6	
951	6.77	1316	2.39	18.46	35.1	4.03	.9	
953	6.78	1314	2.15	18.46	34.7	4.03	1.2	
955	6.78	1311	1.90	18.46	34.1	4.04	1.5	
957	6.79	1306	1.80	18.42	33.9	4.04	1.7	
959	6.79	1305	1.70	18.38	33.7	4.04	2.0	

Did Well Dewater?	NO	Start Purge Time:	945	DTW prior to sample:	4.04
Total Liters Purged:	~~1.9~~ 2.0	Stop Purge Time:	959	Start Sample Time:	1001
Total Sample Volume:	0.16	Odor:	NO	Sheen:	NO
Instrument ID(s):				Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

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Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-30
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.75
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-31-18	Purge Rate (< 0.5L/min): 0.4
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.4

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
822	6.78	1696	0.74	18.2	144.3	4.83	1.2	
825	6.67	1694	0.54	18.2	130.8	4.83	2.4	
829	6.64	1689	0.40	18.0	127.5	4.83	4	
832	6.63	1686	0.38	18.1	127.1	4.83	5.2	
835	6.63	1688	0.36	18.1	126.8	4.83	6.4	

Did Well Dewater?	N	Start Purge Time:	819	DTW prior to sample:	4.83
Total Liters Purged:	6.4	Stop Purge Time:	835	Start Sample Time:	835
Total Sample Volume:	80mL	Odor:	N	Sheen:	N
Instrument ID(s):	03042			Last Calibrated:	745

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-31
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.81
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-30-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1624	6.60	3271	0.96	18.6	286.9	5.11	0.9	
1627	6.53	3257	0.80	18.5	302.7	5.11	1.8	
1631	6.51	3248	0.65	18.4	314.3	5.11	3.0	
1634	6.50	3244	[illegible]	18.4	320.7	5.11	3.9	
1637	6.48	3266	0.55 0.30	18.4	327.8	5.11	4.8	
1640	6.48	3267	0.31	18.4	331.7	5.11	5.7	

Did Well Dewater?	N	Start Purge Time:	1621	DTW prior to sample:	5.11
Total Liters Purged:	5.7	Stop Purge Time:	1640	Start Sample Time:	1640
Total Sample Volume:	80mL	Odor:	No	Sheen:	No
Instrument ID(s):	FA3042			Last Calibrated:	900

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-32
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.41
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-30-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1538	6.32	3538	0.65	19.9	225.0	5.15	1.5	
1542	6.37	3718	0.49	19.8	222.4	5.15	2.7	
1545	6.38	3737	0.45	19.7	220.9	5.15	3.6	
1548	6.39	3764	0.43	19.7	219.8	5.15	4.5	

Did Well Dewater?	N	Start Purge Time:	1533	DTW prior to sample:	5.15
Total Liters Purged:	4.5	Stop Purge Time:	1548	Start Sample Time:	1548
Total Sample Volume:	80ml	Odor:	N	Sheen:	N
Instrument ID(s):	FA03042			Last Calibrated:	900

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-33
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.07
Client: R&C Brown Associates	Total Well Depth (TD):
Sampler: VB	Well Diameter: 2"
Date: 5-30-18	Purge Rate (< 0.5L/min): 0.3
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate): 0.3

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1447	7.01	3614	0.73	20.0	276.2	4.12	0.9	
1450	7.00	3627	0.37	19.8	303.9	4.12	1.8	
1453	6.98	3655	0.30	19.7	320.6	4.12	2.7	
1456	7.00	3682	0.28	19.6	334.0	4.12	3.6	
1459	7.03	3697	0.27	19.6	341	4.12	4.5	

Did Well Dewater?	N	Start Purge Time:	1444	DTW prior to sample:	4.12
Total Liters Purged:	4.5	Stop Purge Time:	1459	Start Sample Time:	1459
Total Sample Volume:	80ml	Odor:	N	Sheen:	N
Instrument ID(s):	FA03042			Last Calibrated:	900

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-37
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.88'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1227	6.80	1300	3.28	18.64	65.0	3.88	.3	
1229	6.80	1240	3.16	18.31	65.5	3.88	.6	
1231	6.80	1219	3.10	18.33	65.9	3.88	.9	
1233	6.79	1215	3.03	18.34	66.4	3.88	1.2	

Did Well Dewater?	NO	Start Purge Time:	1225	DTW prior to sample:	3.88
Total Liters Purged:	1.2	Stop Purge Time:	1233	Start Sample Time:	1235
Total Sample Volume:	0.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI 98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-38
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.23
Client: R&C Brown Associates	Total Well Depth (TD): 29.45
Sampler: CTC	Well Diameter: 2"
Date: 5/30/2018	Purge Rate (< 0.5L/min): ~ 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1003	6.70	1185	5.02	18.78	30.5	4.28	~.45	
1006	6.74	1184	4.18	18.78	27.6	4.28	~.9	
1009	6.75	1184	3.99	18.81	27.4	4.28	~1.35	
1012	6.76	1184	3.90	18.79	27.7	4.28	~1.80	
1015	6.77	1183	3.89	18.75	28.7	4.28	~2.25	

Did Well Dewater?	NO	Start Purge Time:	1000	DTW prior to sample:	4.28
Total Liters Purged:	~2.25	Stop Purge Time:	1015	Start Sample Time:	~~N~~ 1016
Total Sample Volume:	.08L	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-40
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 3.58'
Client: R&C Brown Associates	Total Well Depth (TD): 27'
Sampler: CTC	Well Diameter: 2"
Date: 5/30/18	Purge Rate (< 0.5L/min): ~0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
1555	6.70	1248	4.03	19.67	108.8	3.59	.3	
1557	6.70	1250	2.44	20.16	122.3	3.59	.6	
1559	6.69	1250	2.45	20.14	126.8	3.59	.9	
1601	6.68	1249	2.44	20.12	130.9	3.59	1.2	

Did Well Dewater?	NO	Start Purge Time:	1553	DTW prior to sample:	3.59
Total Liters Purged:	1.2	Stop Purge Time:	1601	Start Sample Time:	1603
Total Sample Volume:	0.08	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

Monitor Well Data Sheet

Site Name: 1173 Campbell	Well/Sample ID: MW-41
Location: 1173-1175 Campbell Ave. San Jose, CA	Initial Depth to Water (DTW): 4.36'
Client: R&C Brown Associates	Total Well Depth (TD): 30'
Sampler: CTC	Well Diameter: 2"
Date: 5/31/18	Purge Rate (< 0.5L/min): 0.15L/min
Purge and Sample Method: Low-Flow with Peri Pump	Sampling Rate (< 0.5L/min or Purge Rate):

Time	pH	SC	DO	Temp	ORP	DTW	Volume	Observations
	SU	µmhoms/cm	mg/l	°C	mV	feet bgs	liters	
829	7.04	1199	1.92	18.51	-73.2	4.45	.3	
831	6.97	1257	1.71	18.26	-78.8	4.45	.6	
833	6.96	1266	1.52	18.24	-81.4	4.45	.9	
835	6.96	1266	1.46	18.23	-82.5	4.45	1.2	
837	6.96	1266	1.42	18.23	-82.6	4.45	1.5	

Did Well Dewater?	NO	Start Purge Time:	827	DTW prior to sample:	4.45
Total Liters Purged:	1.5	Stop Purge Time:	839	Start Sample Time:	839
Total Sample Volume:	0.16	Odor:	NO	Sheen:	NO
Instrument ID(s):	HANNA HI98194			Last Calibrated:	5/30/18

Notes:

	Stability Parameters				
	pH	SC	Dissolved Oxygen	Temp	ORP
	± 0.1 units	3%	10% or ± 0.3mg/l, whichever is >	3%	±10mV

AWR Environmental

Revised: 7/18/2017

SOIL GAS FIELD WORKSHEET

Project Name: 1173 Campbell	Location:1173-1175 Campbell Ave, San Jose, CA	Date: 5-30-18
Client: R+C Brown	Sampler: B	Weather: Sunny
Sample Location: SG-2-1	Sample Canister ID: 5827	Manifold/Controller ID: 6376

SHUT-IN TEST(MINIMUM 2 MINUTES) PASS? Y

Test Start Time: 1106	Initial Vacuum (in Hg): 16	Test Stop Time: 1109	Final Vacuum (in Hg): 16

DOWNHOLE INTEGRITY TEST (Helium in downhole test should be 0%)

	Time	Helium %		Time	Vol Removed	Helium %
Shroud Atmosphere	1116	11.2	Downhole Measurement	1122	100mL	0

VAPOR PURGING (Using syringe for purging)

Volume of Sand Pack*: 0.185	Volume of Bentonite*: 0.31

*See worksheet for existing soil vapor wells for calculated purge volume for sand and bentonite

V_{tref}				Total Volume of Tubing (V_t) $V_t = V_{tref}$* length
Tube Diameter ID (inches)	0.17	0.1875	0.25	Calculated Vt (L): 0.03
Volume (liters per foot)	0.004	0.005	0.010	

One purge volume (L) = V_t + previously calculated sand and bentonite volume

One-Purge Volume (L): 0.525	3-Purge Volumes (L): 1.575	Purge rate (mL/min) (btwn 100-200mL): ~100
Start Time: 1116	Stop Time: 1132	Final Purged Volume (L): 1.6

VAPOR SAMPLNG (Using 1 or 1.4-Liter Summa Canister)

Start Time: 1132	Initial Vacuum (in Hg): 29	Downhole Vacuum Pressure (in Hg)*: 0
Stop Time: 1138	Final Vacuum (in Hg): 0	Purge rate (mL/min):
Every 1" Hg in 1L Summa = 33mL of volume		*Every 1" Hg in 1.4L Summa = 47mL of volume*

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)
1132	13.1				
1135	11.9				
1138	10.9				

1131

1114

TO-17 Sorbent Tube (if applicable)

Sorbent Tube ID: N/A

Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm

Final Amount Pulled:

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration	Time	Shroud Helium Concentration	Time	Shroud Helium Concentration (% or ppm)

SOIL GAS FIELD WORKSHEET

Project Name: 1173 Campbell	Location:1173-1175 Campbell Ave, San Jose, CA	Date: 5 30 18
Client: RtC	Sampler: LB	Weather: Cloudy
Sample Location: SG-4-1	Sample Canister ID: 7784	Manifold/Controller ID: 8668

SHUT-IN TEST(MINIMUM 2 MINUTES) PASS? Y

Test Start Time: 957	**Initial Vacuum (in Hg):** 19	**Test Stop Time:** 959	**Final Vacuum (in Hg):** 19

DOWNHOLE INTEGRITY TEST (Helium in downhole test should be 0%)

	Time	Helium %		Time	Vol Removed	Helium %
Shroud Atmosphere	1006	11.1	**Downhole Measurement**	1012	1000mL	0

VAPOR PURGING (Using syringe for purging)

Volume of Sand Pack*: 0.185 | **Volume of Bentonite*:** 0.31

***See worksheet for existing soil vapor wells for calculated purge volume for sand and bentonite**

	V_{tref}			Total Volume of Tubing (V_t) $V_t = V_{tref}$* length
Tube Diameter ID (inches)	0.17	0.1875	0.25	**Calculated Vt (L):** 0.03
Volume (liters per foot)	0.004	0.005	0.010	

One purge volume (L) = V_t + previously calculated sand and bentonite volume

One-Purge Volume (L): 0.525	**3-Purge Volumes (L):** 1.575	**Purge rate (mL/min) (btwn 100-200mL):** ~100

Start Time: 1006	**Stop Time:** 1022	**Final Purged Volume (L):** 1.6

VAPOR SAMPLNG (Using 1 or 1.4-Liter Summa Canister)

Start Time: 1022	**Initial Vacuum (in Hg):** 26	**Downhole Vacuum Pressure (in Hg)*:** 4
Stop Time: 1031	**Final Vacuum (in Hg):** 3	**Purge rate (mL/min):** ~85

Every 1" Hg in 1L Summa = 33mL of volume | *Every 1" Hg in 1.4L Summa = 47mL of volume*

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)
1022	11.1	1028	10.9		
1024	10.3	1031	11.1		
1026	11.7				

HH
HH

TO-17 Sorbent Tube (if applicable) | **Sorbent Tube ID:** N/A

Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm

Final Amount Pulled:

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration	Time	Shroud Helium Concentration	Time	Shroud Helium Concentration (% or ppm)

SOIL GAS FIELD WORKSHEET

Project Name: 1173 Campbell	Location:1173-1175 Campbell Ave, San Jose, CA	Date: 5-30-18
Client: R+C Brown	Sampler: JB	Weather: Sunny
Sample Location: SG-9-1	Sample Canister ID: 5612	Manifold/Controller ID: 92666

SHUT-IN TEST(MINIMUM 2 MINUTES) PASS? Y

Test Start Time: 1220	Initial Vacuum (in Hg): 13	Test Stop Time: 1226	Final Vacuum (in Hg): 13

DOWNHOLE INTEGRITY TEST (Helium in downhole test should be 0%)

	Time	Helium %		Time	Vol Removed	Helium %
Shroud Atmosphere	1232	10.8	Downhole Measurement	1235	600mL	0

VAPOR PURGING (Using syringe for purging)

Volume of Sand Pack*: 0.185	Volume of Bentonite*: 0.31

*See worksheet for existing soil vapor wells for calculated purge volume for sand and bentonite

V_{tref}				Total Volume of Tubing (V_t) $V_t = V_{tref}$* length
Tube Diameter ID (inches)	0.17	0.1875	0.25	Calculated Vt (L): 0.03
Volume (liters per foot)	0.004	0.005	0.010	

One purge volume (L) = V_t + previously calculated sand and bentonite volume

One-Purge Volume (L): 0.525	3-Purge Volumes (L): 1.575	Purge rate (mL/min) (btwn 100-200mL): 200mL

Start Time: 1232	Stop Time: 1240	Final Purged Volume (L): 1.6L

VAPOR SAMPLNG (Using 1 or 1.4-Liter Summa Canister)

Start Time: 1240	Initial Vacuum (in Hg): >30	Downhole Vacuum Pressure (in Hg)*: 0
Stop Time: 1246	Final Vacuum (in Hg): 3	Purge rate (mL/min): ~150
Every 1" Hg in 1L Summa = 33mL of volume		*Every 1" Hg in 1.4L Summa = 47mL of volume*

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)
1240	28.7	1246	11.1		
1242	27.1				
1244	12.0				

TO-17 Sorbent Tube (if applicable)

Sorbent Tube ID: N/A

Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm

Final Amount Pulled:

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration	Time	Shroud Helium Concentration	Time	Shroud Helium Concentration (% or ppm)

SOIL GAS FIELD WORKSHEET

Project Name: 1173 Campbell	Location:1173-1175 Campbell Ave, San Jose, CA	Date: 5-30-18
Client: R+C Brown	Sampler: VB	Weather: Sunny
Sample Location: SG-101	Sample Canister ID: 8792	Manifold/Controller ID: 7145

SHUT-IN TEST(MINIMUM 2 MINUTES) PASS? Y

Test Start Time: 1312	**Initial Vacuum (in Hg):** 15.5	**Test Stop Time:** 1314	**Final Vacuum (in Hg):** 15.5

DOWNHOLE INTEGRITY TEST (Helium in downhole test should be 0%)

	Time	Helium %		Time	Vol Removed	Helium %
Shroud Atmosphere	1315	11.9	**Downhole Measurement**	—	—	—

Stopped

VAPOR PURGING (Using syringe for purging)

Volume of Sand Pack*: 0.185 | **Volume of Bentonite*:** 0.31

***See worksheet for existing soil vapor wells for calculated purge volume for sand and bentonite**

Couldn't Sample

V_{tref}				Total Volume of Tubing (V_t) $V_t = V_{tref}$* length
Tube Diameter ID (inches)	0.17	0.1875	0.25	**Calculated Vt (L):** 0.03
Volume (liters per foot)	0.004	0.005	0.010	

One purge volume (L) = V_t + previously calculated sand and bentonite volume

One-Purge Volume (L): 0.525	**3-Purge Volumes (L):** 1.575	**Purge rate (mL/min) (btwn 100-200mL):**
Start Time:	**Stop Time:**	**Final Purged Volume (L):**

Water in well

VAPOR SAMPLNG (Using 1 or 1.4-Liter Summa Canister)

Start Time:	**Initial Vacuum (in Hg):**	**Downhole Vacuum Pressure (in Hg)*:**
Stop Time:	**Final Vacuum (in Hg):**	**Purge rate (mL/min):**
Every 1" Hg in 1L Summa = 33mL of volume		*Every 1" Hg in 1.4L Summa = 47mL of volume*

Not Sampled

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)	Time	Shroud Helium Concentration (% or ppm)

TO-17 Sorbent Tube (if applicable) | **Sorbent Tube ID:**

Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm	Time	Amount Pulled Through Tube	In-Line He % or ppm

Final Amount Pulled:

Record helium concentration in shroud every two minutes while sampling

Time	Shroud Helium Concentration	Time	Shroud Helium Concentration	Time	Shroud Helium Concentration (% or ppm)

Appendix B

ANALYTICAL REPORT

June 11, 2018

Applied Water Resources AWR- Alameda, CA

Sample Delivery Group:	L998646
Samples Received:	06/02/2018
Project Number:	1173 CAMPBELL
Description:	1173 Campbell Ave
Report To:	Tyson Fulmer 2363 Mariner Square Dr Suite 245 Alameda, CA 94501

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-1 L998646-01 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 10:50	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1119876	1	06/05/18 13:15	06/05/18 13:15	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 10:31	06/03/18 10:31	ACG

MW-2 L998646-02 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 16:25	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 10:50	06/03/18 10:50	ACG

MW-3 L998646-03 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 13:20	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1119876	1	06/05/18 13:38	06/05/18 13:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 11:09	06/03/18 11:09	ACG

MW-4 L998646-04 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 09:33	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1119876	1	06/05/18 14:00	06/05/18 14:00	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 11:29	06/03/18 11:29	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	200	06/10/18 17:16	06/10/18 17:16	DWR

MW-5 L998646-05 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 09:20	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 11:48	06/03/18 11:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	1	06/10/18 17:35	06/10/18 17:35	DWR

MW-6 L998646-06 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 09:07	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 12:07	06/03/18 12:07	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	1	06/10/18 17:54	06/10/18 17:54	DWR

MW-7 L998646-07 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 11:20	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 12:27	06/03/18 12:27	ACG

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-8 L998646-08 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 11:55	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 12:46	06/03/18 12:46	ACG

MW-9 L998646-09 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 16:45	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 13:05	06/03/18 13:05	ACG

MW-10 L998646-10 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 14:50	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 13:24	06/03/18 13:24	ACG

MW-12 L998646-11 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 09:42	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 13:44	06/03/18 13:44	ACG

MW-13 L998646-12 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 08:51	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1119876	1	06/05/18 14:22	06/05/18 14:22	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 14:03	06/03/18 14:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	10	06/10/18 18:13	06/10/18 18:13	DWR

MW-14 L998646-13 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 08:11	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1119876	1	06/05/18 14:44	06/05/18 14:44	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 14:22	06/03/18 14:22	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	1	06/10/18 18:33	06/10/18 18:33	DWR

MW-20 L998646-14 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 12:50	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 14:42	06/03/18 14:42	ACG

MW-21 L998646-15 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 14:20	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 15:01	06/03/18 15:01	ACG

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-22 L998646-16 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 15:17	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 15:20	06/03/18 15:20	ACG

MW-25 L998646-17 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 07:58	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1120302-1	10	06/06/18 01:48	06/06/18 01:48	RAS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 15:39	06/03/18 15:39	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	100	06/10/18 18:52	06/10/18 18:52	DWR

MW-27 L998646-18 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 10:01	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 15:59	06/03/18 15:59	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	1	06/10/18 19:11	06/10/18 19:11	DWR

MW-30 L998646-19 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 08:35	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 16:18	06/03/18 16:18	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	20	06/10/18 19:31	06/10/18 19:31	DWR

MW-31 L998646-20 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 16:40	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119335	1	06/03/18 16:37	06/03/18 16:37	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1122514	1	06/10/18 19:50	06/10/18 19:50	DWR

MW-32 L998646-22 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 15:48	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 12:08	06/03/18 12:08	RAS

MW-33 L998646-23 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 14:59	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 12:29	06/03/18 12:29	RAS

MW-37 L998646-24 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 12:33	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 12:49	06/03/18 12:49	RAS

MW-38 L998646-25 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 10:16	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 13:10	06/03/18 13:10	RAS

MW-40 L998646-26 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 16:03	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 13:30	06/03/18 13:30	RAS

MW-41 L998646-27 GW

Collected by	Collected date/time	Received date/time
CC/YB	05/31/18 08:39	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015	WG1120302-1	1	06/06/18 02:10	06/06/18 02:10	RAS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1119380	1	06/03/18 13:51	06/03/18 13:51	RAS

SG-2-1 L998646-28 Air

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 12:40	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method ASTM 1946	WG1120079	1	06/05/18 14:11	06/05/18 14:11	BG
Volatile Organic Compounds (MS) by Method TO-15	WG1119951	2	06/05/18 17:45	06/05/18 17:45	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1120501	80	06/06/18 18:04	06/06/18 18:04	AMC
Organic Compounds (GC) by Method D1946	WG1119896	1	06/05/18 10:34	06/05/18 10:34	BG

SG-4-1 L998646-29 Air

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 10:22	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method ASTM 1946	WG1120079	1	06/05/18 14:15	06/05/18 14:15	BG
Volatile Organic Compounds (MS) by Method TO-15	WG1119951	25	06/05/18 18:33	06/05/18 18:33	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1120501	1000	06/06/18 18:45	06/06/18 18:45	AMC
Organic Compounds (GC) by Method D1946	WG1119896	1	06/05/18 10:42	06/05/18 10:42	BG

SG-9-1 L998646-30 Air

Collected by	Collected date/time	Received date/time
CC/YB	05/30/18 11:32	06/02/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method ASTM 1946	WG1120079	1	06/05/18 14:20	06/05/18 14:20	BG
Volatile Organic Compounds (MS) by Method TO-15	WG1119951	2	06/05/18 19:22	06/05/18 19:22	MBF
Organic Compounds (GC) by Method D1946	WG1119896	1	06/05/18 10:50	06/05/18 10:50	BG

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford

Brian Ford
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		100	1	06/05/2018 13:15	WG1119876
(S) a,a,a-Trifluorotoluene(FID)	*88.7*		*77.0-122*		*06/05/2018 13:15*	WG1119876

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 10:31	WG1119335
Acrolein	ND		50.0	1	06/03/2018 10:31	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 10:31	WG1119335
Benzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 10:31	WG1119335
Bromoform	ND		1.00	1	06/03/2018 10:31	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 10:31	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 10:31	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 10:31	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 10:31	WG1119335
Chloroform	ND		5.00	1	06/03/2018 10:31	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 10:31	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 10:31	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 10:31	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 10:31	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 10:31	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 10:31	WG1119335
cis-1,2-Dichloroethene	10.8		1.00	1	06/03/2018 10:31	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 10:31	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 10:31	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 10:31	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 10:31	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 10:31	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 10:31	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 10:31	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 10:31	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 10:31	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 10:31	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 10:31	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 10:31	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Styrene	ND		1.00	1	06/03/2018 10:31	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
Tetrachloroethene	114		1.00	1	06/03/2018 10:31	WG1119335
Toluene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 10:31	WG1119335
Trichloroethene	33.5		1.00	1	06/03/2018 10:31	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 10:31	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 10:31	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 10:31	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 10:31	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 10:31	WG1119335
(S) Toluene-d8	*87.9*		*80.0-120*		*06/03/2018 10:31*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 10:31*	WG1119335
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*06/03/2018 10:31*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 10:50	WG1119335
Acrolein	ND		50.0	1	06/03/2018 10:50	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 10:50	WG1119335
Benzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 10:50	WG1119335
Bromoform	ND		1.00	1	06/03/2018 10:50	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 10:50	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 10:50	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 10:50	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 10:50	WG1119335
Chloroform	ND		5.00	1	06/03/2018 10:50	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 10:50	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 10:50	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 10:50	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 10:50	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 10:50	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 10:50	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 10:50	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 10:50	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 10:50	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 10:50	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 10:50	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 10:50	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 10:50	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 10:50	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 10:50	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 10:50	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 10:50	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 10:50	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 10:50	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Styrene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
Tetrachloroethene	12.5		1.00	1	06/03/2018 10:50	WG1119335
Toluene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 10:50	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 10:50	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 10:50	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 10:50	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 10:50	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 10:50	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 10:50	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 10:50	WG1119335
(S) Toluene-d8	*94.6*		*80.0-120*		*06/03/2018 10:50*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 10:50*	WG1119335
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*06/03/2018 10:50*	WG1119335

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	ND		100	1	06/05/2018 13:38	WG1119876
(S) a,a,a-Trifluorotoluene(FID)	*88.9*		*77.0-122*		*06/05/2018 13:38*	WG1119876

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 11:09	WG1119335
Acrolein	ND		50.0	1	06/03/2018 11:09	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 11:09	WG1119335
Benzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 11:09	WG1119335
Bromoform	ND		1.00	1	06/03/2018 11:09	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 11:09	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 11:09	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 11:09	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 11:09	WG1119335
Chloroform	ND		5.00	1	06/03/2018 11:09	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 11:09	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 11:09	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 11:09	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 11:09	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 11:09	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 11:09	WG1119335
cis-1,2-Dichloroethene	5.56		1.00	1	06/03/2018 11:09	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 11:09	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:09	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:09	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 11:09	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 11:09	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 11:09	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 11:09	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 11:09	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 11:09	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 11:09	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 11:09	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 11:09	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Styrene	ND		1.00	1	06/03/2018 11:09	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
Tetrachloroethene	52.1		1.00	1	06/03/2018 11:09	WG1119335
Toluene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 11:09	WG1119335
Trichloroethene	13.8		1.00	1	06/03/2018 11:09	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 11:09	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 11:09	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 11:09	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 11:09	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 11:09	WG1119335
(S) Toluene-d8	*97.5*		*80.0-120*		*06/03/2018 11:09*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 11:09*	WG1119335
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*06/03/2018 11:09*	WG1119335

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	6700		100	1	06/05/2018 14:00	WG1119876
(S) a,a,a-Trifluorotoluene(FID)	*88.3*		*77.0-122*		*06/05/2018 14:00*	WG1119876

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 11:29	WG1119335
Acrolein	ND		50.0	1	06/03/2018 11:29	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 11:29	WG1119335
Benzene	44.6		1.00	1	06/03/2018 11:29	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 11:29	WG1119335
Bromoform	ND		1.00	1	06/03/2018 11:29	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 11:29	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 11:29	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 11:29	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 11:29	WG1119335
Chloroform	ND		5.00	1	06/03/2018 11:29	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 11:29	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 11:29	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 11:29	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 11:29	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 11:29	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1-Dichloroethene	1.35		1.00	1	06/03/2018 11:29	WG1119335
cis-1,2-Dichloroethene	808		200	200	06/10/2018 17:16	WG1122514
trans-1,2-Dichloroethene	19.5		1.00	1	06/03/2018 11:29	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 11:29	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:29	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:29	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 11:29	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 11:29	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 11:29	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 11:29	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 11:29	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 11:29	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 11:29	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 11:29	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 11:29	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Styrene	ND		1.00	1	06/03/2018 11:29	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
Tetrachloroethene	30700		200	200	06/10/2018 17:16	WG1122514
Toluene	3.13		1.00	1	06/03/2018 11:29	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 11:29	WG1119335
Trichloroethene	1040		200	200	06/10/2018 17:16	WG1122514
Trichlorofluoromethane	ND		5.00	1	06/03/2018 11:29	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 11:29	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 11:29	WG1119335
Vinyl chloride	34.3		1.00	1	06/03/2018 11:29	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 11:29	WG1119335
(S) Toluene-d8	*105*		*80.0-120*		*06/03/2018 11:29*	WG1119335
(S) Toluene-d8	*98.2*		*80.0-120*		*06/10/2018 17:16*	WG1122514
(S) Dibromofluoromethane	*101*		*76.0-123*		*06/03/2018 11:29*	WG1119335
(S) Dibromofluoromethane	*95.0*		*76.0-123*		*06/10/2018 17:16*	WG1122514
(S) 4-Bromofluorobenzene	*109*		*80.0-120*		*06/03/2018 11:29*	WG1119335
(S) 4-Bromofluorobenzene	*98.5*		*80.0-120*		*06/10/2018 17:16*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 11:48	WG1119335
Acrolein	ND		50.0	1	06/03/2018 11:48	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 11:48	WG1119335
Benzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 11:48	WG1119335
Bromoform	ND		1.00	1	06/03/2018 11:48	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 11:48	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 11:48	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 11:48	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 11:48	WG1119335
Chloroform	ND		5.00	1	06/03/2018 11:48	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 11:48	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 11:48	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 11:48	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 11:48	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 11:48	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 11:48	WG1119335
cis-1,2-Dichloroethene	4.14		1.00	1	06/10/2018 17:35	WG1122514
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 11:48	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:48	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 11:48	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 11:48	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 11:48	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 11:48	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 11:48	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 11:48	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 11:48	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 11:48	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 11:48	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 11:48	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Styrene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
Tetrachloroethene	88.3		1.00	1	06/10/2018 17:35	WG1122514
Toluene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 11:48	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 11:48	WG1119335
Trichloroethene	6.18		1.00	1	06/10/2018 17:35	WG1122514
Trichlorofluoromethane	ND		5.00	1	06/03/2018 11:48	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 11:48	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 11:48	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 11:48	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 11:48	WG1119335
(S) Toluene-d8	*96.9*		*80.0-120*		*06/03/2018 11:48*	WG1119335
(S) Toluene-d8	*103*		*80.0-120*		*06/10/2018 17:35*	WG1122514
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 11:48*	WG1119335
(S) Dibromofluoromethane	*96.5*		*76.0-123*		*06/10/2018 17:35*	WG1122514
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 11:48*	WG1119335
(S) 4-Bromofluorobenzene	*94.7*		*80.0-120*		*06/10/2018 17:35*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:07	WG1119335
Acrolein	ND		50.0	1	06/03/2018 12:07	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 12:07	WG1119335
Benzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 12:07	WG1119335
Bromoform	ND		1.00	1	06/03/2018 12:07	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 12:07	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:07	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:07	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 12:07	WG1119335
Chloroform	ND		5.00	1	06/03/2018 12:07	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 12:07	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:07	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:07	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:07	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:07	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:07	WG1119335
cis-1,2-Dichloroethene	21.3		1.00	1	06/03/2018 12:07	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:07	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:07	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:07	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:07	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:07	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:07	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:07	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:07	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 12:07	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:07	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:07	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 12:07	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Styrene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
Tetrachloroethene	ND		1.00	1	06/10/2018 17:54	WG1122514
Toluene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:07	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:07	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 12:07	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:07	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:07	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:07	WG1119335
Vinyl chloride	14.5		1.00	1	06/03/2018 12:07	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 12:07	WG1119335
(S) Toluene-d8	*95.3*		*80.0-120*		*06/03/2018 12:07*	WG1119335
(S) Toluene-d8	*102*		*80.0-120*		*06/10/2018 17:54*	WG1122514
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 12:07*	WG1119335
(S) Dibromofluoromethane	*99.3*		*76.0-123*		*06/10/2018 17:54*	WG1122514
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*06/03/2018 12:07*	WG1119335
(S) 4-Bromofluorobenzene	*93.5*		*80.0-120*		*06/10/2018 17:54*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:27	WG1119335
Acrolein	ND		50.0	1	06/03/2018 12:27	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 12:27	WG1119335
Benzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 12:27	WG1119335
Bromoform	ND		1.00	1	06/03/2018 12:27	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 12:27	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:27	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:27	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 12:27	WG1119335
Chloroform	ND		5.00	1	06/03/2018 12:27	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 12:27	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:27	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:27	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:27	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:27	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:27	WG1119335
cis-1,2-Dichloroethene	23.4		1.00	1	06/03/2018 12:27	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:27	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:27	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:27	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:27	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:27	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:27	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:27	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:27	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 12:27	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:27	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:27	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 12:27	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Styrene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
Tetrachloroethene	57.3		1.00	1	06/03/2018 12:27	WG1119335
Toluene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:27	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:27	WG1119335
Trichloroethene	7.54		1.00	1	06/03/2018 12:27	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:27	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:27	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:27	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 12:27	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 12:27	WG1119335
(S) Toluene-d8	*95.7*		*80.0-120*		*06/03/2018 12:27*	WG1119335
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 12:27*	WG1119335
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*06/03/2018 12:27*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:46	WG1119335
Acrolein	ND		50.0	1	06/03/2018 12:46	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 12:46	WG1119335
Benzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 12:46	WG1119335
Bromoform	ND		1.00	1	06/03/2018 12:46	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 12:46	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:46	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:46	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 12:46	WG1119335
Chloroform	ND		5.00	1	06/03/2018 12:46	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 12:46	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:46	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:46	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:46	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:46	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:46	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:46	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:46	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:46	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:46	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:46	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:46	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:46	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:46	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:46	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 12:46	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:46	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:46	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 12:46	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Styrene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
Tetrachloroethene	4.31		1.00	1	06/03/2018 12:46	WG1119335
Toluene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:46	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:46	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 12:46	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:46	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:46	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:46	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 12:46	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 12:46	WG1119335
(S) Toluene-d8	*96.2*		*80.0-120*		*06/03/2018 12:46*	WG1119335
(S) Dibromofluoromethane	*103*		*76.0-123*		*06/03/2018 12:46*	WG1119335
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*06/03/2018 12:46*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:05	WG1119335
Acrolein	ND		50.0	1	06/03/2018 13:05	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 13:05	WG1119335
Benzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 13:05	WG1119335
Bromoform	ND		1.00	1	06/03/2018 13:05	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 13:05	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:05	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:05	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 13:05	WG1119335
Chloroform	ND		5.00	1	06/03/2018 13:05	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 13:05	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:05	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:05	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:05	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:05	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:05	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:05	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:05	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:05	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:05	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:05	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:05	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:05	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:05	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:05	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 13:05	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:05	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:05	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 13:05	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Styrene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
Tetrachloroethene	5.17		1.00	1	06/03/2018 13:05	WG1119335
Toluene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:05	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:05	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 13:05	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:05	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:05	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:05	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 13:05	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 13:05	WG1119335
(S) Toluene-d8	*97.3*		*80.0-120*		*06/03/2018 13:05*	WG1119335
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 13:05*	WG1119335
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 13:05*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:24	WG1119335
Acrolein	ND		50.0	1	06/03/2018 13:24	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 13:24	WG1119335
Benzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 13:24	WG1119335
Bromoform	ND		1.00	1	06/03/2018 13:24	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 13:24	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:24	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:24	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 13:24	WG1119335
Chloroform	ND		5.00	1	06/03/2018 13:24	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 13:24	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:24	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:24	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:24	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:24	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:24	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:24	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:24	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:24	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:24	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:24	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:24	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:24	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:24	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:24	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 13:24	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:24	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:24	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 13:24	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Styrene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
Tetrachloroethene	2.25		1.00	1	06/03/2018 13:24	WG1119335
Toluene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:24	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:24	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 13:24	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:24	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:24	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:24	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 13:24	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 13:24	WG1119335
(S) Toluene-d8	*95.8*		*80.0-120*		*06/03/2018 13:24*	WG1119335
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 13:24*	WG1119335
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*06/03/2018 13:24*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:44	WG1119335
Acrolein	ND		50.0	1	06/03/2018 13:44	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 13:44	WG1119335
Benzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 13:44	WG1119335
Bromoform	ND		1.00	1	06/03/2018 13:44	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 13:44	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:44	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:44	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 13:44	WG1119335
Chloroform	ND		5.00	1	06/03/2018 13:44	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 13:44	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:44	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:44	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:44	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:44	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:44	WG1119335
cis-1,2-Dichloroethene	3.88		1.00	1	06/03/2018 13:44	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:44	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:44	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:44	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:44	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:44	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:44	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:44	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:44	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 13:44	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:44	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:44	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 13:44	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Styrene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
Tetrachloroethene	21.1		1.00	1	06/03/2018 13:44	WG1119335
Toluene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:44	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:44	WG1119335
Trichloroethene	2.69		1.00	1	06/03/2018 13:44	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:44	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:44	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:44	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 13:44	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 13:44	WG1119335
(S) Toluene-d8	*94.8*		*80.0-120*		*06/03/2018 13:44*	WG1119335
(S) Dibromofluoromethane	*103*		*76.0-123*		*06/03/2018 13:44*	WG1119335
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*06/03/2018 13:44*	WG1119335

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	1810		100	1	06/05/2018 14:22	WG1119876
(S) a,a,a-Trifluorotoluene(FID)	*91.7*		*77.0-122*		*06/05/2018 14:22*	WG1119876

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 14:03	WG1119335
Acrolein	ND		50.0	1	06/03/2018 14:03	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 14:03	WG1119335
Benzene	197		10.0	10	06/10/2018 18:13	WG1122514
Bromobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 14:03	WG1119335
Bromoform	ND		1.00	1	06/03/2018 14:03	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 14:03	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
tert-Butylbenzene	3.06		1.00	1	06/03/2018 14:03	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 14:03	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 14:03	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 14:03	WG1119335
Chloroform	ND		5.00	1	06/03/2018 14:03	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 14:03	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 14:03	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 14:03	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 14:03	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 14:03	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 14:03	WG1119335
cis-1,2-Dichloroethene	180		10.0	10	06/10/2018 18:13	WG1122514
trans-1,2-Dichloroethene	5.62		1.00	1	06/03/2018 14:03	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 14:03	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:03	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:03	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 14:03	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 14:03	WG1119335
Ethylbenzene	9.11		1.00	1	06/03/2018 14:03	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 14:03	WG1119335
Isopropylbenzene	2.33		1.00	1	06/03/2018 14:03	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 14:03	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 14:03	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 14:03	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 14:03	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 14:03	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 14:03	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
Styrene	ND		1.00	1	06/03/2018 14:03	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
Tetrachloroethene	ND		1.00	1	06/03/2018 14:03	WG1119335
Toluene	2.14		1.00	1	06/03/2018 14:03	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 14:03	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 14:03	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 14:03	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 14:03	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 14:03	WG1119335
Vinyl chloride	170		1.00	1	06/03/2018 14:03	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 14:03	WG1119335
(S) Toluene-d8	*97.6*		*80.0-120*		*06/03/2018 14:03*	WG1119335
(S) Toluene-d8	*101*		*80.0-120*		*06/10/2018 18:13*	WG1122514
(S) Dibromofluoromethane	*98.4*		*76.0-123*		*06/03/2018 14:03*	WG1119335
(S) Dibromofluoromethane	*92.6*		*76.0-123*		*06/10/2018 18:13*	WG1122514
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 14:03*	WG1119335
(S) 4-Bromofluorobenzene	*93.0*		*80.0-120*		*06/10/2018 18:13*	WG1122514

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	262		100	1	06/05/2018 14:44	WG1119876
(S) a,a,a-Trifluorotoluene(FID)	*89.4*		*77.0-122*		*06/05/2018 14:44*	WG1119876

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 14:22	WG1119335
Acrolein	ND		50.0	1	06/03/2018 14:22	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 14:22	WG1119335
Benzene	1.18		1.00	1	06/10/2018 18:33	WG1122514
Bromobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 14:22	WG1119335
Bromoform	ND		1.00	1	06/03/2018 14:22	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 14:22	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 14:22	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 14:22	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 14:22	WG1119335
Chloroform	ND		5.00	1	06/03/2018 14:22	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 14:22	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 14:22	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 14:22	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 14:22	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 14:22	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 14:22	WG1119335
cis-1,2-Dichloroethene	168		1.00	1	06/03/2018 14:22	WG1119335
trans-1,2-Dichloroethene	40.5		1.00	1	06/03/2018 14:22	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 14:22	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:22	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:22	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 14:22	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 14:22	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 14:22	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 14:22	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 14:22	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 14:22	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 14:22	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 14:22	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 14:22	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Styrene	ND		1.00	1	06/03/2018 14:22	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
Tetrachloroethene	1.76		1.00	1	06/03/2018 14:22	WG1119335
Toluene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 14:22	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 14:22	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 14:22	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 14:22	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 14:22	WG1119335
Vinyl chloride	26.4		1.00	1	06/03/2018 14:22	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 14:22	WG1119335
(S) Toluene-d8	*96.5*		*80.0-120*		*06/03/2018 14:22*	WG1119335
(S) Toluene-d8	*102*		*80.0-120*		*06/10/2018 18:33*	WG1122514
(S) Dibromofluoromethane	*101*		*76.0-123*		*06/03/2018 14:22*	WG1119335
(S) Dibromofluoromethane	*95.0*		*76.0-123*		*06/10/2018 18:33*	WG1122514
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 14:22*	WG1119335
(S) 4-Bromofluorobenzene	*94.5*		*80.0-120*		*06/10/2018 18:33*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 14:42	WG1119335
Acrolein	ND		50.0	1	06/03/2018 14:42	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 14:42	WG1119335
Benzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 14:42	WG1119335
Bromoform	ND		1.00	1	06/03/2018 14:42	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 14:42	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 14:42	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 14:42	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 14:42	WG1119335
Chloroform	ND		5.00	1	06/03/2018 14:42	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 14:42	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 14:42	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 14:42	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 14:42	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 14:42	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 14:42	WG1119335
cis-1,2-Dichloroethene	1.04		1.00	1	06/03/2018 14:42	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 14:42	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:42	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 14:42	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 14:42	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 14:42	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 14:42	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 14:42	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 14:42	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 14:42	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 14:42	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 14:42	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 14:42	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Styrene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
Tetrachloroethene	112		1.00	1	06/03/2018 14:42	WG1119335
Toluene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 14:42	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 14:42	WG1119335
Trichloroethene	8.37		1.00	1	06/03/2018 14:42	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 14:42	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 14:42	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 14:42	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 14:42	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 14:42	WG1119335
(S) Toluene-d8	*94.2*		*80.0-120*		*06/03/2018 14:42*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 14:42*	WG1119335
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 14:42*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 15:01	WG1119335
Acrolein	ND		50.0	1	06/03/2018 15:01	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 15:01	WG1119335
Benzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 15:01	WG1119335
Bromoform	ND		1.00	1	06/03/2018 15:01	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 15:01	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 15:01	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 15:01	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 15:01	WG1119335
Chloroform	ND		5.00	1	06/03/2018 15:01	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 15:01	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 15:01	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 15:01	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 15:01	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 15:01	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 15:01	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 15:01	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 15:01	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:01	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:01	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 15:01	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 15:01	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 15:01	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 15:01	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 15:01	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 15:01	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 15:01	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 15:01	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 15:01	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Styrene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
Tetrachloroethene	49.8		1.00	1	06/03/2018 15:01	WG1119335
Toluene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 15:01	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 15:01	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 15:01	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 15:01	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 15:01	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 15:01	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 15:01	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 15:01	WG1119335
(S) Toluene-d8	*97.2*		*80.0-120*		*06/03/2018 15:01*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 15:01*	WG1119335
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*06/03/2018 15:01*	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 15:20	WG1119335
Acrolein	ND		50.0	1	06/03/2018 15:20	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 15:20	WG1119335
Benzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 15:20	WG1119335
Bromoform	ND		1.00	1	06/03/2018 15:20	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 15:20	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 15:20	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 15:20	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 15:20	WG1119335
Chloroform	ND		5.00	1	06/03/2018 15:20	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 15:20	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 15:20	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 15:20	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 15:20	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 15:20	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 15:20	WG1119335
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 15:20	WG1119335
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 15:20	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:20	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:20	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 15:20	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 15:20	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 15:20	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 15:20	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 15:20	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 15:20	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 15:20	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 15:20	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 15:20	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Styrene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
Tetrachloroethene	6.88		1.00	1	06/03/2018 15:20	WG1119335
Toluene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 15:20	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 15:20	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 15:20	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 15:20	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 15:20	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 15:20	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 15:20	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 15:20	WG1119335
(S) Toluene-d8	*96.3*		*80.0-120*		*06/03/2018 15:20*	WG1119335
(S) Dibromofluoromethane	*105*		*76.0-123*		*06/03/2018 15:20*	WG1119335
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*06/03/2018 15:20*	WG1119335

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	20600		1000	10	06/06/2018 01:48	WG1120302-1
(S) a,a,a-Trifluorotoluene(FID)	*90.7*		*77.0-122*		*06/06/2018 01:48*	WG1120302-1

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 15:39	WG1119335
Acrolein	ND		50.0	1	06/03/2018 15:39	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 15:39	WG1119335
Benzene	4080		100	100	06/10/2018 18:52	WG1122514
Bromobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 15:39	WG1119335
Bromoform	ND		1.00	1	06/03/2018 15:39	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 15:39	WG1119335
n-Butylbenzene	16.0		1.00	1	06/03/2018 15:39	WG1119335
sec-Butylbenzene	24.3		1.00	1	06/03/2018 15:39	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 15:39	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 15:39	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 15:39	WG1119335
Chloroform	ND		5.00	1	06/03/2018 15:39	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 15:39	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 15:39	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 15:39	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 15:39	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 15:39	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 15:39	WG1119335
cis-1,2-Dichloroethene	3.55		1.00	1	06/03/2018 15:39	WG1119335
trans-1,2-Dichloroethene	1.88		1.00	1	06/03/2018 15:39	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 15:39	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:39	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:39	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 15:39	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 15:39	WG1119335
Ethylbenzene	702		100	100	06/10/2018 18:52	WG1122514
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 15:39	WG1119335
Isopropylbenzene	135		1.00	1	06/03/2018 15:39	WG1119335
p-Isopropyltoluene	8.91		1.00	1	06/03/2018 15:39	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 15:39	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 15:39	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 15:39	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 15:39	WG1119335
Naphthalene	215	Z1	100	100	06/10/2018 18:52	WG1122514
n-Propylbenzene	349		100	100	06/10/2018 18:52	WG1122514
Styrene	ND		1.00	1	06/03/2018 15:39	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
Tetrachloroethene	ND		1.00	1	06/03/2018 15:39	WG1119335
Toluene	45.4		1.00	1	06/03/2018 15:39	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 15:39	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 15:39	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 15:39	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 15:39	WG1119335
1,2,4-Trimethylbenzene	1330		100	100	06/10/2018 18:52	WG1122514
1,2,3-Trimethylbenzene	377		100	100	06/10/2018 18:52	WG1122514
1,3,5-Trimethylbenzene	388		100	100	06/10/2018 18:52	WG1122514
Vinyl chloride	11.0		1.00	1	06/03/2018 15:39	WG1119335
Xylenes, Total	766		300	100	06/10/2018 18:52	WG1122514
(S) Toluene-d8	*90.9*		*80.0-120*		*06/03/2018 15:39*	WG1119335
(S) Toluene-d8	*101*		*80.0-120*		*06/10/2018 18:52*	WG1122514
(S) Dibromofluoromethane	*133*	J1	*76.0-123*		*06/03/2018 15:39*	WG1119335
(S) Dibromofluoromethane	*95.3*		*76.0-123*		*06/10/2018 18:52*	WG1122514
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*06/03/2018 15:39*	WG1119335
(S) 4-Bromofluorobenzene	*94.3*		*80.0-120*		*06/10/2018 18:52*	WG1122514

Sample Narrative:

L998646-17 WG1122514: Reporting naphthalene to the MDL

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 15:59	WG1119335
Acrolein	ND		50.0	1	06/03/2018 15:59	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 15:59	WG1119335
Benzene	ND		1.00	1	06/10/2018 19:11	WG1122514
Bromobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 15:59	WG1119335
Bromoform	ND		1.00	1	06/03/2018 15:59	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 15:59	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 15:59	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 15:59	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 15:59	WG1119335
Chloroform	ND		5.00	1	06/03/2018 15:59	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 15:59	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 15:59	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 15:59	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 15:59	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 15:59	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 15:59	WG1119335
cis-1,2-Dichloroethene	28.3		1.00	1	06/03/2018 15:59	WG1119335
trans-1,2-Dichloroethene	1.84		1.00	1	06/03/2018 15:59	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 15:59	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:59	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 15:59	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 15:59	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 15:59	WG1119335
Ethylbenzene	ND		1.00	1	06/10/2018 19:11	WG1122514
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 15:59	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 15:59	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 15:59	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 15:59	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 15:59	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 15:59	WG1119335
Naphthalene	ND		5.00	1	06/10/2018 19:11	WG1122514
n-Propylbenzene	ND		1.00	1	06/10/2018 19:11	WG1122514
Styrene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
Tetrachloroethene	29.3		1.00	1	06/03/2018 15:59	WG1119335
Toluene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 15:59	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 15:59	WG1119335
Trichloroethene	6.24		1.00	1	06/03/2018 15:59	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 15:59	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 15:59	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/10/2018 19:11	WG1122514
1,2,3-Trimethylbenzene	ND		1.00	1	06/10/2018 19:11	WG1122514
1,3,5-Trimethylbenzene	ND		1.00	1	06/10/2018 19:11	WG1122514
Vinyl chloride	1.92		1.00	1	06/03/2018 15:59	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 15:59	WG1119335
(S) Toluene-d8	*96.2*		*80.0-120*		*06/03/2018 15:59*	WG1119335
(S) Toluene-d8	*103*		*80.0-120*		*06/10/2018 19:11*	WG1122514
(S) Dibromofluoromethane	*102*		*76.0-123*		*06/03/2018 15:59*	WG1119335
(S) Dibromofluoromethane	*96.6*		*76.0-123*		*06/10/2018 19:11*	WG1122514
(S) 4-Bromofluorobenzene	*107*		*80.0-120*		*06/03/2018 15:59*	WG1119335
(S) 4-Bromofluorobenzene	*92.8*		*80.0-120*		*06/10/2018 19:11*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 16:18	WG1119335
Acrolein	ND		50.0	1	06/03/2018 16:18	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 16:18	WG1119335
Benzene	ND		20.0	20	06/10/2018 19:31	WG1122514
Bromobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 16:18	WG1119335
Bromoform	ND		1.00	1	06/03/2018 16:18	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 16:18	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 16:18	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 16:18	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 16:18	WG1119335
Chloroform	ND		5.00	1	06/03/2018 16:18	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 16:18	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 16:18	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 16:18	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 16:18	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 16:18	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 16:18	WG1119335
cis-1,2-Dichloroethene	317		20.0	20	06/10/2018 19:31	WG1122514
trans-1,2-Dichloroethene	13.1		1.00	1	06/03/2018 16:18	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 16:18	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 16:18	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 16:18	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 16:18	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 16:18	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 16:18	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 16:18	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 16:18	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 16:18	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 16:18	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 16:18	WG1119335
Naphthalene	ND		100	20	06/10/2018 19:31	WG1122514
n-Propylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Styrene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
Tetrachloroethene	199		1.00	1	06/03/2018 16:18	WG1119335
Toluene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 16:18	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 16:18	WG1119335
Trichloroethene	7.61		1.00	1	06/03/2018 16:18	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 16:18	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 16:18	WG1119335
1,2,4-Trimethylbenzene	ND		20.0	20	06/10/2018 19:31	WG1122514
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 16:18	WG1119335
Vinyl chloride	16.5		1.00	1	06/03/2018 16:18	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 16:18	WG1119335
(S) Toluene-d8	*96.2*		*80.0-120*		*06/03/2018 16:18*	WG1119335
(S) Toluene-d8	*102*		*80.0-120*		*06/10/2018 19:31*	WG1122514
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 16:18*	WG1119335
(S) Dibromofluoromethane	*96.2*		*76.0-123*		*06/10/2018 19:31*	WG1122514
(S) 4-Bromofluorobenzene	*108*		*80.0-120*		*06/03/2018 16:18*	WG1119335
(S) 4-Bromofluorobenzene	*95.4*		*80.0-120*		*06/10/2018 19:31*	WG1122514

Sample Narrative:

L998646-19 WG1119335, WG1122514: Benzene, naph, 124-TMB not reportable from 1x due to possible carryover.

L998646-19 WG1119335, WG1122514: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 16:37	WG1119335
Acrolein	ND		50.0	1	06/03/2018 16:37	WG1119335
Acrylonitrile	ND		10.0	1	06/03/2018 16:37	WG1119335
Benzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Bromobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Bromodichloromethane	ND		1.00	1	06/03/2018 16:37	WG1119335
Bromoform	ND		1.00	1	06/03/2018 16:37	WG1119335
Bromomethane	ND	J3	5.00	1	06/03/2018 16:37	WG1119335
n-Butylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
sec-Butylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
tert-Butylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Carbon tetrachloride	ND		1.00	1	06/03/2018 16:37	WG1119335
Chlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Chlorodibromomethane	ND		1.00	1	06/03/2018 16:37	WG1119335
Chloroethane	ND		5.00	1	06/03/2018 16:37	WG1119335
Chloroform	ND		5.00	1	06/03/2018 16:37	WG1119335
Chloromethane	ND		2.50	1	06/03/2018 16:37	WG1119335
2-Chlorotoluene	ND		1.00	1	06/03/2018 16:37	WG1119335
4-Chlorotoluene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 16:37	WG1119335
1,2-Dibromoethane	ND		1.00	1	06/03/2018 16:37	WG1119335
Dibromomethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 16:37	WG1119335
1,1-Dichloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2-Dichloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1-Dichloroethene	ND		1.00	1	06/03/2018 16:37	WG1119335
cis-1,2-Dichloroethene	1.49		1.00	1	06/10/2018 19:50	WG1122514
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2-Dichloropropane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1-Dichloropropene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,3-Dichloropropane	ND		1.00	1	06/03/2018 16:37	WG1119335
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 16:37	WG1119335
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 16:37	WG1119335
2,2-Dichloropropane	ND		1.00	1	06/03/2018 16:37	WG1119335
Di-isopropyl ether	ND		1.00	1	06/03/2018 16:37	WG1119335
Ethylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 16:37	WG1119335
Isopropylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
p-Isopropyltoluene	ND		1.00	1	06/03/2018 16:37	WG1119335
2-Butanone (MEK)	ND		10.0	1	06/03/2018 16:37	WG1119335
Methylene Chloride	ND		5.00	1	06/03/2018 16:37	WG1119335
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 16:37	WG1119335
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 16:37	WG1119335
Naphthalene	ND		5.00	1	06/03/2018 16:37	WG1119335
n-Propylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Styrene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
Tetrachloroethene	70.8		1.00	1	06/03/2018 16:37	WG1119335
Toluene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 16:37	WG1119335

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 16:37	WG1119335
Trichloroethene	ND		1.00	1	06/03/2018 16:37	WG1119335
Trichlorofluoromethane	ND		5.00	1	06/03/2018 16:37	WG1119335
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 16:37	WG1119335
1,2,4-Trimethylbenzene	ND		1.00	1	06/10/2018 19:50	WG1122514
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 16:37	WG1119335
Vinyl chloride	ND		1.00	1	06/03/2018 16:37	WG1119335
Xylenes, Total	ND		3.00	1	06/03/2018 16:37	WG1119335
(S) Toluene-d8	*94.2*		*80.0-120*		*06/03/2018 16:37*	WG1119335
(S) Toluene-d8	*101*		*80.0-120*		*06/10/2018 19:50*	WG1122514
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 16:37*	WG1119335
(S) Dibromofluoromethane	*97.2*		*76.0-123*		*06/10/2018 19:50*	WG1122514
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*06/03/2018 16:37*	WG1119335
(S) 4-Bromofluorobenzene	*96.1*		*80.0-120*		*06/10/2018 19:50*	WG1122514

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:08	WG1119380
Acrolein	ND		50.0	1	06/03/2018 12:08	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 12:08	WG1119380
Benzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 12:08	WG1119380
Bromoform	ND		1.00	1	06/03/2018 12:08	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 12:08	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:08	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:08	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 12:08	WG1119380
Chloroform	ND		5.00	1	06/03/2018 12:08	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 12:08	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:08	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:08	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:08	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:08	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:08	WG1119380
cis-1,2-Dichloroethene	148		1.00	1	06/03/2018 12:08	WG1119380
trans-1,2-Dichloroethene	4.23		1.00	1	06/03/2018 12:08	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:08	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:08	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:08	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:08	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:08	WG1119380
Ethylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:08	WG1119380
Isopropylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:08	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:08	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 12:08	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:08	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:08	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 12:08	WG1119380
n-Propylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Styrene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
Tetrachloroethene	14.6		1.00	1	06/03/2018 12:08	WG1119380
Toluene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:08	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:08	WG1119380
Trichloroethene	2.50		1.00	1	06/03/2018 12:08	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:08	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:08	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:08	WG1119380
Vinyl chloride	2.37		1.00	1	06/03/2018 12:08	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 12:08	WG1119380
(S) Toluene-d8	*97.4*		*80.0-120*		*06/03/2018 12:08*	WG1119380
(S) Dibromofluoromethane	*104*		*76.0-123*		*06/03/2018 12:08*	WG1119380
(S) 4-Bromofluorobenzene	*115*		*80.0-120*		*06/03/2018 12:08*	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:29	WG1119380
Acrolein	ND		50.0	1	06/03/2018 12:29	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 12:29	WG1119380
Benzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 12:29	WG1119380
Bromoform	ND		1.00	1	06/03/2018 12:29	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 12:29	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:29	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:29	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 12:29	WG1119380
Chloroform	ND		5.00	1	06/03/2018 12:29	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 12:29	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:29	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:29	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:29	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:29	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:29	WG1119380
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:29	WG1119380
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:29	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:29	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:29	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:29	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:29	WG1119380
Ethylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:29	WG1119380
Isopropylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:29	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:29	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 12:29	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:29	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:29	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 12:29	WG1119380
n-Propylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Styrene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
Tetrachloroethene	53.4		1.00	1	06/03/2018 12:29	WG1119380
Toluene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:29	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:29	WG1119380
Trichloroethene	1.86		1.00	1	06/03/2018 12:29	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:29	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:29	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:29	WG1119380
Vinyl chloride	ND		1.00	1	06/03/2018 12:29	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 12:29	WG1119380
(S) Toluene-d8	*102*		*80.0-120*		*06/03/2018 12:29*	WG1119380
(S) Dibromofluoromethane	*108*		*76.0-123*		*06/03/2018 12:29*	WG1119380
(S) 4-Bromofluorobenzene	*116*		*80.0-120*		*06/03/2018 12:29*	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 12:49	WG1119380
Acrolein	ND		50.0	1	06/03/2018 12:49	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 12:49	WG1119380
Benzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 12:49	WG1119380
Bromoform	ND		1.00	1	06/03/2018 12:49	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 12:49	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
tert-Butylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 12:49	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 12:49	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 12:49	WG1119380
Chloroform	ND		5.00	1	06/03/2018 12:49	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 12:49	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 12:49	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 12:49	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 12:49	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 12:49	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 12:49	WG1119380
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:49	WG1119380
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 12:49	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:49	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 12:49	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 12:49	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 12:49	WG1119380
Ethylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 12:49	WG1119380
Isopropylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 12:49	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 12:49	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 12:49	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 12:49	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 12:49	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 12:49	WG1119380
n-Propylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Styrene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
Tetrachloroethene	ND		1.00	1	06/03/2018 12:49	WG1119380
Toluene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 12:49	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 12:49	WG1119380
Trichloroethene	ND		1.00	1	06/03/2018 12:49	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 12:49	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 12:49	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 12:49	WG1119380
Vinyl chloride	ND		1.00	1	06/03/2018 12:49	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 12:49	WG1119380
(S) Toluene-d8	*94.7*		*80.0-120*		*06/03/2018 12:49*	WG1119380
(S) Dibromofluoromethane	*109*		*76.0-123*		*06/03/2018 12:49*	WG1119380
(S) 4-Bromofluorobenzene	*112*		*80.0-120*		*06/03/2018 12:49*	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:10	WG1119380
Acrolein	ND		50.0	1	06/03/2018 13:10	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 13:10	WG1119380
Benzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 13:10	WG1119380
Bromoform	ND		1.00	1	06/03/2018 13:10	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 13:10	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
tert-Butylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:10	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:10	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 13:10	WG1119380
Chloroform	ND		5.00	1	06/03/2018 13:10	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 13:10	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:10	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:10	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:10	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:10	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:10	WG1119380
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:10	WG1119380
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:10	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:10	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:10	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:10	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:10	WG1119380
Ethylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:10	WG1119380
Isopropylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:10	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:10	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 13:10	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:10	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:10	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 13:10	WG1119380
n-Propylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Styrene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
Tetrachloroethene	ND		1.00	1	06/03/2018 13:10	WG1119380
Toluene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:10	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:10	WG1119380
Trichloroethene	ND		1.00	1	06/03/2018 13:10	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:10	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:10	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:10	WG1119380
Vinyl chloride	ND		1.00	1	06/03/2018 13:10	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 13:10	WG1119380
(S) Toluene-d8	*99.5*		*80.0-120*		*06/03/2018 13:10*	WG1119380
(S) Dibromofluoromethane	*109*		*76.0-123*		*06/03/2018 13:10*	WG1119380
(S) 4-Bromofluorobenzene	*115*		*80.0-120*		*06/03/2018 13:10*	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:30	WG1119380
Acrolein	ND		50.0	1	06/03/2018 13:30	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 13:30	WG1119380
Benzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 13:30	WG1119380
Bromoform	ND		1.00	1	06/03/2018 13:30	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 13:30	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
tert-Butylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:30	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:30	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 13:30	WG1119380
Chloroform	ND		5.00	1	06/03/2018 13:30	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 13:30	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:30	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:30	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:30	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:30	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:30	WG1119380
cis-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:30	WG1119380
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:30	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:30	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:30	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:30	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:30	WG1119380
Ethylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:30	WG1119380
Isopropylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:30	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:30	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 13:30	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:30	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:30	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 13:30	WG1119380
n-Propylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Styrene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
Tetrachloroethene	3.12		1.00	1	06/03/2018 13:30	WG1119380
Toluene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:30	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:30	WG1119380
Trichloroethene	ND		1.00	1	06/03/2018 13:30	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:30	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:30	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:30	WG1119380
Vinyl chloride	ND		1.00	1	06/03/2018 13:30	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 13:30	WG1119380
(S) Toluene-d8	*100*		*80.0-120*		*06/03/2018 13:30*	WG1119380
(S) Dibromofluoromethane	*110*		*76.0-123*		*06/03/2018 13:30*	WG1119380
(S) 4-Bromofluorobenzene	*118*		*80.0-120*		*06/03/2018 13:30*	WG1119380

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	326	B	100	1	06/06/2018 02:10	WG1120302-1
(S) a,a,a-Trifluorotoluene(FID)	*89.5*		*77.0-122*		*06/06/2018 02:10*	WG1120302-1

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/03/2018 13:51	WG1119380
Acrolein	ND		50.0	1	06/03/2018 13:51	WG1119380
Acrylonitrile	ND		10.0	1	06/03/2018 13:51	WG1119380
Benzene	2.92		1.00	1	06/03/2018 13:51	WG1119380
Bromobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
Bromodichloromethane	ND		1.00	1	06/03/2018 13:51	WG1119380
Bromoform	ND		1.00	1	06/03/2018 13:51	WG1119380
Bromomethane	ND		5.00	1	06/03/2018 13:51	WG1119380
n-Butylbenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
sec-Butylbenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
tert-Butylbenzene	2.98		1.00	1	06/03/2018 13:51	WG1119380
Carbon tetrachloride	ND		1.00	1	06/03/2018 13:51	WG1119380
Chlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
Chlorodibromomethane	ND		1.00	1	06/03/2018 13:51	WG1119380
Chloroethane	ND		5.00	1	06/03/2018 13:51	WG1119380
Chloroform	ND		5.00	1	06/03/2018 13:51	WG1119380
Chloromethane	ND		2.50	1	06/03/2018 13:51	WG1119380
2-Chlorotoluene	ND		1.00	1	06/03/2018 13:51	WG1119380
4-Chlorotoluene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/03/2018 13:51	WG1119380
1,2-Dibromoethane	ND		1.00	1	06/03/2018 13:51	WG1119380
Dibromomethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2-Dichlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,3-Dichlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,4-Dichlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
Dichlorodifluoromethane	ND		5.00	1	06/03/2018 13:51	WG1119380
1,1-Dichloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2-Dichloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1-Dichloroethene	ND		1.00	1	06/03/2018 13:51	WG1119380
cis-1,2-Dichloroethene	26.1		1.00	1	06/03/2018 13:51	WG1119380
trans-1,2-Dichloroethene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2-Dichloropropane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1-Dichloropropene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,3-Dichloropropane	ND		1.00	1	06/03/2018 13:51	WG1119380
cis-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:51	WG1119380
trans-1,3-Dichloropropene	ND		1.00	1	06/03/2018 13:51	WG1119380
2,2-Dichloropropane	ND		1.00	1	06/03/2018 13:51	WG1119380
Di-isopropyl ether	ND		1.00	1	06/03/2018 13:51	WG1119380
Ethylbenzene	19.9		1.00	1	06/03/2018 13:51	WG1119380
Hexachloro-1,3-butadiene	ND		1.00	1	06/03/2018 13:51	WG1119380
Isopropylbenzene	3.52		1.00	1	06/03/2018 13:51	WG1119380
p-Isopropyltoluene	ND		1.00	1	06/03/2018 13:51	WG1119380
2-Butanone (MEK)	ND		10.0	1	06/03/2018 13:51	WG1119380
Methylene Chloride	ND		5.00	1	06/03/2018 13:51	WG1119380
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/03/2018 13:51	WG1119380
Methyl tert-butyl ether	ND		1.00	1	06/03/2018 13:51	WG1119380
Naphthalene	ND		5.00	1	06/03/2018 13:51	WG1119380
n-Propylbenzene	3.75		1.00	1	06/03/2018 13:51	WG1119380
Styrene	ND		1.00	1	06/03/2018 13:51	WG1119380

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
Tetrachloroethene	ND		1.00	1	06/03/2018 13:51	WG1119380
Toluene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2,3-Trichlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2,4-Trichlorobenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1,1-Trichloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
1,1,2-Trichloroethane	ND		1.00	1	06/03/2018 13:51	WG1119380
Trichloroethene	2.26		1.00	1	06/03/2018 13:51	WG1119380
Trichlorofluoromethane	ND		5.00	1	06/03/2018 13:51	WG1119380
1,2,3-Trichloropropane	ND		2.50	1	06/03/2018 13:51	WG1119380
1,2,4-Trimethylbenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,2,3-Trimethylbenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
1,3,5-Trimethylbenzene	ND		1.00	1	06/03/2018 13:51	WG1119380
Vinyl chloride	ND		1.00	1	06/03/2018 13:51	WG1119380
Xylenes, Total	ND		3.00	1	06/03/2018 13:51	WG1119380
(S) Toluene-d8	*97.9*		*80.0-120*		*06/03/2018 13:51*	WG1119380
(S) Dibromofluoromethane	*108*		*76.0-123*		*06/03/2018 13:51*	WG1119380
(S) 4-Bromofluorobenzene	*110*		*80.0-120*		*06/03/2018 13:51*	WG1119380

Volatile Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1120079

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	18.1	43.0		2	WG1119951
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1119951
Benzene	71-43-2	78.10	0.400	1.28	0.472	1.51		2	WG1119951
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1119951
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1119951
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1119951
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1119951
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1119951
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1119951
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1119951
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1119951
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1119951
Chloroform	67-66-3	119	0.400	1.95	0.589	2.87		2	WG1119951
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1119951
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1119951
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1119951
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1119951
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1119951
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1119951
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1119951
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1119951
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1119951
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1119951
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1119951
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	0.904	3.58		2	WG1119951
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1119951
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1119951
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1119951
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1119951
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1119951
Ethanol	64-17-5	46.10	1.26	2.38	9.99	18.8		2	WG1119951
Ethylbenzene	100-41-4	106	0.400	1.73	0.518	2.25		2	WG1119951
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1119951
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1119951
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1119951
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1119951
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1119951
Heptane	142-82-5	100	0.400	1.64	0.620	2.54		2	WG1119951
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1119951
n-Hexane	110-54-3	86.20	0.400	1.41	0.737	2.60		2	WG1119951
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1119951
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1119951
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1119951
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1119951
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1119951
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1119951
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1119951
Naphthalene	91-20-3	128	1.26	6.60	1.64	8.58	B	2	WG1119951
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1119951
Propene	115-07-1	42.10	0.800	1.38	2.06	3.55		2	WG1119951

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1119951
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1119951
Tetrachloroethylene	127-18-4	166	16.0	109	1740	11800		80	WG1120501
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	2.98	8.79		2	WG1119951
Toluene	108-88-3	92.10	0.400	1.51	0.456	1.72		2	WG1119951
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1119951
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1119951
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1119951
Trichloroethylene	79-01-6	131	16.0	85.7	78.2	419		80	WG1120501
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	1.46	7.17		2	WG1119951
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	0.552	2.71		2	WG1119951
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	1.17	5.49		2	WG1119951
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1119951
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1119951
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1119951
m&p-Xylene	1330-20-7	106	0.800	3.47	1.30	5.63		2	WG1119951
o-Xylene	95-47-6	106	0.400	1.73	0.464	2.01		2	WG1119951
TPH (GC/MS) Low Fraction	8006-61-9	101	100	413	1190	4920		2	WG1119951
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1119951
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.5*				WG1120501

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	2.00	14.1		1	WG1119896

Volatile Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1120079

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	ND	ND		25	WG1119951
Allyl chloride	107-05-1	76.53	5.00	15.7	ND	ND		25	WG1119951
Benzene	71-43-2	78.10	5.00	16.0	ND	ND		25	WG1119951
Benzyl Chloride	100-44-7	127	5.00	26.0	ND	ND		25	WG1119951
Bromodichloromethane	75-27-4	164	5.00	33.5	ND	ND		25	WG1119951
Bromoform	75-25-2	253	15.0	155	ND	ND		25	WG1119951
Bromomethane	74-83-9	94.90	5.00	19.4	ND	ND		25	WG1119951
1,3-Butadiene	106-99-0	54.10	50.0	111	ND	ND		25	WG1119951
Carbon disulfide	75-15-0	76.10	5.00	15.6	ND	ND		25	WG1119951
Carbon tetrachloride	56-23-5	154	5.00	31.5	ND	ND		25	WG1119951
Chlorobenzene	108-90-7	113	5.00	23.1	ND	ND		25	WG1119951
Chloroethane	75-00-3	64.50	5.00	13.2	ND	ND		25	WG1119951
Chloroform	67-66-3	119	5.00	24.3	ND	ND		25	WG1119951
Chloromethane	74-87-3	50.50	5.00	10.3	ND	ND		25	WG1119951
2-Chlorotoluene	95-49-8	126	5.00	25.8	ND	ND		25	WG1119951
Cyclohexane	110-82-7	84.20	5.00	17.2	ND	ND		25	WG1119951
Dibromochloromethane	124-48-1	208	5.00	42.5	ND	ND		25	WG1119951
1,2-Dibromoethane	106-93-4	188	5.00	38.4	ND	ND		25	WG1119951
1,2-Dichlorobenzene	95-50-1	147	5.00	30.1	ND	ND		25	WG1119951
1,3-Dichlorobenzene	541-73-1	147	5.00	30.1	ND	ND		25	WG1119951
1,4-Dichlorobenzene	106-46-7	147	5.00	30.1	ND	ND		25	WG1119951
1,2-Dichloroethane	107-06-2	99	5.00	20.2	ND	ND		25	WG1119951
1,1-Dichloroethane	75-34-3	98	5.00	20.0	ND	ND		25	WG1119951
1,1-Dichloroethene	75-35-4	96.90	5.00	19.8	ND	ND		25	WG1119951
cis-1,2-Dichloroethene	156-59-2	96.90	5.00	19.8	ND	ND		25	WG1119951
trans-1,2-Dichloroethene	156-60-5	96.90	5.00	19.8	ND	ND		25	WG1119951
1,2-Dichloropropane	78-87-5	113	5.00	23.1	ND	ND		25	WG1119951
cis-1,3-Dichloropropene	10061-01-5	111	5.00	22.7	ND	ND		25	WG1119951
trans-1,3-Dichloropropene	10061-02-6	111	5.00	22.7	ND	ND		25	WG1119951
1,4-Dioxane	123-91-1	88.10	5.00	18.0	ND	ND		25	WG1119951
Ethanol	64-17-5	46.10	15.8	29.8	43.0	81.1		25	WG1119951
Ethylbenzene	100-41-4	106	5.00	21.7	ND	ND		25	WG1119951
4-Ethyltoluene	622-96-8	120	5.00	24.5	ND	ND		25	WG1119951
Trichlorofluoromethane	75-69-4	137.40	5.00	28.1	ND	ND		25	WG1119951
Dichlorodifluoromethane	75-71-8	120.92	5.00	24.7	ND	ND		25	WG1119951
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	5.00	38.3	ND	ND		25	WG1119951
1,2-Dichlorotetrafluoroethane	76-14-2	171	5.00	35.0	ND	ND		25	WG1119951
Heptane	142-82-5	100	5.00	20.4	ND	ND		25	WG1119951
Hexachloro-1,3-butadiene	87-68-3	261	15.8	169	ND	ND		25	WG1119951
n-Hexane	110-54-3	86.20	5.00	17.6	ND	ND		25	WG1119951
Isopropylbenzene	98-82-8	120.20	5.00	24.6	ND	ND		25	WG1119951
Methylene Chloride	75-09-2	84.90	5.00	17.4	ND	ND		25	WG1119951
Methyl Butyl Ketone	591-78-6	100	31.2	128	ND	ND		25	WG1119951
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	ND	ND		25	WG1119951
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	31.2	128	ND	ND		25	WG1119951
Methyl methacrylate	80-62-6	100.12	5.00	20.5	ND	ND		25	WG1119951
MTBE	1634-04-4	88.10	5.00	18.0	ND	ND		25	WG1119951
Naphthalene	91-20-3	128	15.8	82.7	ND	ND		25	WG1119951
2-Propanol	67-63-0	60.10	31.2	76.7	ND	ND		25	WG1119951
Propene	115-07-1	42.10	10.0	17.2	15.0	25.9		25	WG1119951

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Styrene	100-42-5	104	5.00	21.3	ND	ND		25	WG1119951
1,1,2,2-Tetrachloroethane	79-34-5	168	5.00	34.4	ND	ND		25	WG1119951
Tetrachloroethylene	127-18-4	166	200	1360	18100	123000		1000	WG1120501
Tetrahydrofuran	109-99-9	72.10	5.00	14.7	17.0	50.0		25	WG1119951
Toluene	108-88-3	92.10	5.00	18.8	ND	ND		25	WG1119951
1,2,4-Trichlorobenzene	120-82-1	181	15.8	117	ND	ND		25	WG1119951
1,1,1-Trichloroethane	71-55-6	133	5.00	27.2	ND	ND		25	WG1119951
1,1,2-Trichloroethane	79-00-5	133	5.00	27.2	ND	ND		25	WG1119951
Trichloroethylene	79-01-6	131	5.00	26.8	72.1	386		25	WG1119951
1,2,4-Trimethylbenzene	95-63-6	120	5.00	24.5	ND	ND		25	WG1119951
1,3,5-Trimethylbenzene	108-67-8	120	5.00	24.5	ND	ND		25	WG1119951
2,2,4-Trimethylpentane	540-84-1	114.22	5.00	23.4	ND	ND		25	WG1119951
Vinyl chloride	75-01-4	62.50	5.00	12.8	ND	ND		25	WG1119951
Vinyl Bromide	593-60-2	106.95	5.00	21.9	ND	ND		25	WG1119951
Vinyl acetate	108-05-4	86.10	5.00	17.6	ND	ND		25	WG1119951
m&p-Xylene	1330-20-7	106	10.0	43.4	ND	ND		25	WG1119951
o-Xylene	95-47-6	106	5.00	21.7	ND	ND		25	WG1119951
TPH (GC/MS) Low Fraction	8006-61-9	101	1250	5160	8820	36400		25	WG1119951
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.5*				WG1119951
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.9*				WG1120501

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	2.00	16.9		1	WG1119896

Volatile Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1120079

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	123	293	E	2	WG1119951
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1119951
Benzene	71-43-2	78.10	0.400	1.28	2.25	7.17		2	WG1119951
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1119951
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1119951
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1119951
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1119951
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1119951
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1119951
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1119951
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1119951
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1119951
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1119951
Chloromethane	74-87-3	50.50	0.400	0.826	0.488	1.01		2	WG1119951
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1119951
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1119951
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1119951
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1119951
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1119951
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	0.410	2.46		2	WG1119951
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1119951
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1119951
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1119951
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1119951
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1119951
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1119951
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1119951
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1119951
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1119951
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1119951
Ethanol	64-17-5	46.10	1.26	2.38	3.08	5.80		2	WG1119951
Ethylbenzene	100-41-4	106	0.400	1.73	0.471	2.04		2	WG1119951
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1119951
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1119951
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1119951
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1119951
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1119951
Heptane	142-82-5	100	0.400	1.64	2.02	8.28		2	WG1119951
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1119951
n-Hexane	110-54-3	86.20	0.400	1.41	0.430	1.52		2	WG1119951
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1119951
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1119951
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1119951
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	11.6	34.1		2	WG1119951
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1119951
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1119951
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1119951
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1119951
2-Propanol	67-63-0	60.10	2.50	6.15	16.4	40.4		2	WG1119951
Propene	115-07-1	42.10	0.800	1.38	10.5	18.1		2	WG1119951

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1119951
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1119951
Tetrachloroethylene	127-18-4	166	0.400	2.72	62.5	424		2	WG1119951
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	3.11	9.18		2	WG1119951
Toluene	108-88-3	92.10	0.400	1.51	0.849	3.20		2	WG1119951
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1119951
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	WG1119951
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1119951
Trichloroethylene	79-01-6	131	0.400	2.14	0.912	4.89		2	WG1119951
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	0.766	3.76		2	WG1119951
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1119951
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1119951
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG1119951
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1119951
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1119951
m&p-Xylene	1330-20-7	106	0.800	3.47	1.53	6.62		2	WG1119951
o-Xylene	95-47-6	106	0.400	1.73	0.529	2.29		2	WG1119951
TPH (GC/MS) Low Fraction	8006-61-9	101	100	413	216	892		2	WG1119951
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1119951

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	2.00	16.5		1	WG1119896

Method Blank (MB)

(MB) R3315490-3 06/05/18 14:00

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Helium	U		0.0259	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315490-1 06/05/18 13:53 • (LCSD) R3315490-2 06/05/18 13:57

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Helium	2.50	2.53	2.47	101	98.7	70.0-130			2.40	25

Method Blank (MB)

(MB) R3315701-3 06/05/18 10:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	0.0788	J	0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

Method Blank (MB)

(MB) R3315701-3 06/05/18 10:54

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	0.193	J	0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
TPH (GC/MS) Low Fraction	U		6.91	50.0
(S) 1,4-Bromofluorobenzene	*95.9*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315701-1 06/05/18 09:15 • (LCSD) R3315701-2 06/05/18 10:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.50	3.61	93.4	96.2	52.0-158			2.99	25
Propene	3.75	3.58	3.60	95.6	96.0	54.0-155			0.433	25
Dichlorodifluoromethane	3.75	3.26	3.32	87.0	88.6	69.0-143			1.75	25
1,2-Dichlorotetrafluoroethane	3.75	3.82	3.90	102	104	70.0-130			1.95	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315701-1 06/05/18 09:15 • (LCSD) R3315701-2 06/05/18 10:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	3.75	3.57	3.58	95.3	95.4	70.0-130			0.112	25
Vinyl chloride	3.75	3.63	3.61	96.7	96.2	70.0-130			0.459	25
1,3-Butadiene	3.75	3.69	3.72	98.4	99.3	70.0-130			0.879	25
Bromomethane	3.75	3.58	3.57	95.5	95.2	70.0-130			0.375	25
Chloroethane	3.75	3.64	3.65	97.2	97.3	70.0-130			0.176	25
Trichlorofluoromethane	3.75	3.63	3.63	96.9	96.8	70.0-130			0.0416	25
1,1,2-Trichlorotrifluoroethane	3.75	3.61	3.61	96.3	96.3	70.0-130			0.0114	25
1,1-Dichloroethene	3.75	3.59	3.59	95.6	95.7	70.0-130			0.109	25
1,1-Dichloroethane	3.75	3.62	3.62	96.4	96.6	70.0-130			0.249	25
Acetone	3.75	3.68	3.73	98.2	99.3	70.0-130			1.13	25
2-Propanol	3.75	3.76	3.78	100	101	66.0-150			0.600	25
Carbon disulfide	3.75	3.63	3.60	96.7	96.1	70.0-130			0.659	25
Methylene Chloride	3.75	3.52	3.56	93.9	95.0	70.0-130			1.09	25
MTBE	3.75	3.63	3.67	96.9	97.8	70.0-130			0.978	25
trans-1,2-Dichloroethene	3.75	3.58	3.57	95.4	95.3	70.0-130			0.153	25
n-Hexane	3.75	3.63	3.63	96.8	96.7	70.0-130			0.0650	25
Vinyl acetate	3.75	3.91	3.94	104	105	70.0-130			0.700	25
Methyl Ethyl Ketone	3.75	3.82	3.78	102	101	70.0-130			1.16	25
cis-1,2-Dichloroethene	3.75	3.73	3.74	99.3	99.8	70.0-130			0.465	25
Chloroform	3.75	3.61	3.63	96.2	96.9	70.0-130			0.760	25
Cyclohexane	3.75	3.63	3.63	96.7	96.8	70.0-130			0.00193	25
1,1,1-Trichloroethane	3.75	3.63	3.63	96.8	96.7	70.0-130			0.128	25
Carbon tetrachloride	3.75	3.68	3.67	98.2	97.8	70.0-130			0.426	25
Benzene	3.75	3.60	3.62	96.0	96.5	70.0-130			0.549	25
1,2-Dichloroethane	3.75	3.62	3.66	96.5	97.7	70.0-130			1.16	25
Heptane	3.75	3.65	3.67	97.3	98.0	70.0-130			0.729	25
Trichloroethylene	3.75	3.55	3.58	94.5	95.4	70.0-130			0.906	25
1,2-Dichloropropane	3.75	3.60	3.64	96.0	97.1	70.0-130			1.23	25
1,4-Dioxane	3.75	3.76	3.86	100	103	70.0-152			2.46	25
Bromodichloromethane	3.75	3.64	3.67	97.0	97.9	70.0-130			0.849	25
cis-1,3-Dichloropropene	3.75	3.74	3.76	99.8	100	70.0-130			0.576	25
4-Methyl-2-pentanone (MIBK)	3.75	3.82	3.87	102	103	70.0-142			1.31	25
Toluene	3.75	3.67	3.69	97.8	98.5	70.0-130			0.712	25
trans-1,3-Dichloropropene	3.75	3.77	3.81	100	101	70.0-130			1.05	25
1,1,2-Trichloroethane	3.75	3.62	3.66	96.5	97.5	70.0-130			1.08	25
Tetrachloroethylene	3.75	3.58	3.61	95.3	96.3	70.0-130			1.02	25
Methyl Butyl Ketone	3.75	3.96	4.04	105	108	70.0-150			2.00	25
Dibromochloromethane	3.75	3.71	3.70	98.8	98.8	70.0-130			0.0693	25
1,2-Dibromoethane	3.75	3.67	3.71	97.9	98.9	70.0-130			0.979	25
Chlorobenzene	3.75	3.66	3.71	97.7	98.8	70.0-130			1.21	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315701-1 06/05/18 09:15 • (LCSD) R3315701-2 06/05/18 10:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	3.75	3.67	3.66	97.8	97.6	70.0-130			0.195	25
m&p-Xylene	7.50	7.24	7.20	96.5	96.0	70.0-130			0.550	25
o-Xylene	3.75	3.68	3.64	98.2	97.1	70.0-130			1.09	25
Styrene	3.75	3.80	3.77	101	101	70.0-130			0.825	25
Bromoform	3.75	3.77	3.71	100	98.9	70.0-130			1.49	25
1,1,2,2-Tetrachloroethane	3.75	3.70	3.64	98.6	97.2	70.0-130			1.51	25
4-Ethyltoluene	3.75	3.70	3.67	98.7	97.8	70.0-130			0.971	25
1,3,5-Trimethylbenzene	3.75	3.44	3.39	91.8	90.5	70.0-130			1.51	25
1,2,4-Trimethylbenzene	3.75	3.60	3.59	96.1	95.6	70.0-130			0.492	25
1,3-Dichlorobenzene	3.75	3.74	3.69	99.7	98.5	70.0-130			1.23	25
1,4-Dichlorobenzene	3.75	3.72	3.69	99.3	98.5	70.0-130			0.825	25
Benzyl Chloride	3.75	4.00	4.00	107	107	70.0-144			0.199	25
1,2-Dichlorobenzene	3.75	3.63	3.60	96.8	96.1	70.0-130			0.692	25
1,2,4-Trichlorobenzene	3.75	4.72	4.86	126	130	70.0-155			2.91	25
Hexachloro-1,3-butadiene	3.75	3.82	3.84	102	102	70.0-145			0.495	25
Naphthalene	3.75	4.63	4.78	123	127	70.0-155			3.23	25
TPH (GC/MS) Low Fraction	176	171	170	96.8	96.3	70.0-130			0.488	25
Allyl Chloride	3.75	3.68	3.71	98.2	98.9	70.0-130			0.696	25
2-Chlorotoluene	3.75	3.64	3.60	97.0	96.0	70.0-130			1.08	25
Methyl Methacrylate	3.75	3.71	3.76	99.0	100	70.0-130			1.17	25
Tetrahydrofuran	3.75	3.65	3.70	97.3	98.7	70.0-140			1.44	25
2,2,4-Trimethylpentane	3.75	3.63	3.64	96.8	97.2	70.0-130			0.425	25
Vinyl Bromide	3.75	3.57	3.65	95.3	97.2	70.0-130			2.07	25
Isopropylbenzene	3.75	3.67	3.65	98.0	97.4	70.0-130			0.531	25
(S) 1,4-Bromofluorobenzene				*101*	*101*	*60.0-140*				

Method Blank (MB)

(MB) R3316041-3 06/06/18 10:26

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
(S) 1,4-Bromofluorobenzene	*93.4*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316041-1 06/06/18 08:57 • (LCSD) R3316041-2 06/06/18 09:41

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethylene	3.75	4.22	4.20	112	112	70.0-130			0.420	25
Tetrachloroethylene	3.75	4.45	4.42	119	118	70.0-130			0.597	25
(S) 1,4-Bromofluorobenzene				*99.6*	*98.6*	*60.0-140*				

Method Blank (MB)

(MB) R3315601-3 06/05/18 10:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHG C5 - C12	U		30.4	100
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-122*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315601-1 06/05/18 09:27 • (LCSD) R3315601-2 06/05/18 10:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	5500	4930	5170	89.6	94.0	71.0-130			4.87	20
(S) a,a,a-Trifluorotoluene(FID)				*92.6*	*94.9*	*77.0-122*				

Method Blank (MB)

(MB) R3315726-3 06/05/18 23:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHG C5 - C12	39.2	J	30.4	100
(S) a,a,a-Trifluorotoluene(FID)	*89.0*			*77.0-122*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315726-1 06/05/18 22:38 • (LCSD) R3315726-2 06/05/18 23:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHG C5 - C12	5500	5290	5230	96.2	95.1	71.0-130			1.12	20
(S) a,a,a-Trifluorotoluene(FID)				*95.3*	*95.2*	*77.0-122*				

Method Blank (MB)

(MB) R3316746-3 06/03/18 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3316746-3 06/03/18 09:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*98.2*			*80.0-120*
(S) Dibromofluoromethane	*101*			*76.0-123*
(S) 4-Bromofluorobenzene	*106*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316746-1 06/03/18 08:58 • (LCSD) R3316746-2 06/03/18 09:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	121	123	96.7	98.4	10.0-160			1.74	23
Acrolein	125	142	137	114	109	10.0-160			4.06	20
Acrylonitrile	125	153	147	122	118	60.0-142			3.71	20
Benzene	25.0	27.2	26.9	109	107	69.0-123			1.43	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316746-1 06/03/18 08:58 • (LCSD) R3316746-2 06/03/18 09:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	25.0	28.2	27.7	113	111	79.0-120			1.84	20
Bromodichloromethane	25.0	24.4	24.1	97.7	96.4	76.0-120			1.38	20
Bromoform	25.0	30.0	28.9	120	116	67.0-132			3.65	20
Bromomethane	25.0	8.19	11.0	32.8	44.0	18.0-160		J3	29.2	20
n-Butylbenzene	25.0	22.6	21.8	90.3	87.2	72.0-126			3.51	20
sec-Butylbenzene	25.0	24.2	24.1	96.8	96.3	74.0-121			0.491	20
tert-Butylbenzene	25.0	23.9	23.4	95.5	93.4	75.0-122			2.24	20
Carbon tetrachloride	25.0	26.0	25.3	104	101	63.0-122			2.67	20
Chlorobenzene	25.0	23.4	23.2	93.8	92.9	79.0-121			0.938	20
Chlorodibromomethane	25.0	22.7	22.6	90.6	90.2	75.0-125			0.451	20
Chloroethane	25.0	26.6	24.6	106	98.2	47.0-152			8.06	20
Chloroform	25.0	26.2	26.1	105	105	72.0-121			0.377	20
Chloromethane	25.0	14.9	17.0	59.5	68.2	48.0-139			13.6	20
2-Chlorotoluene	25.0	28.4	27.9	113	112	74.0-122			1.46	20
4-Chlorotoluene	25.0	28.0	27.4	112	110	79.0-120			2.29	20
1,2-Dibromo-3-Chloropropane	25.0	27.6	27.1	110	108	64.0-127			1.89	20
1,2-Dibromoethane	25.0	24.3	24.0	97.2	95.9	77.0-123			1.29	20
Dibromomethane	25.0	24.4	24.3	97.5	97.2	78.0-120			0.304	20
1,2-Dichlorobenzene	25.0	27.7	28.0	111	112	80.0-120			0.992	20
1,3-Dichlorobenzene	25.0	27.1	26.9	109	107	72.0-123			1.00	20
1,4-Dichlorobenzene	25.0	26.8	26.3	107	105	77.0-120			1.85	20
Dichlorodifluoromethane	25.0	17.8	18.6	71.4	74.5	49.0-155			4.28	20
1,1-Dichloroethane	25.0	27.9	27.6	111	110	70.0-126			0.962	20
1,2-Dichloroethane	25.0	27.8	27.5	111	110	67.0-126			1.15	20
1,1-Dichloroethene	25.0	21.4	21.7	85.5	86.8	64.0-129			1.54	20
cis-1,2-Dichloroethene	25.0	24.1	24.0	96.3	95.8	73.0-120			0.451	20
trans-1,2-Dichloroethene	25.0	22.5	23.1	89.9	92.4	71.0-121			2.66	20
1,2-Dichloropropane	25.0	27.1	27.0	108	108	75.0-125			0.284	20
1,1-Dichloropropene	25.0	26.6	26.5	106	106	71.0-129			0.470	20
1,3-Dichloropropane	25.0	27.9	27.1	112	108	80.0-121			3.09	20
cis-1,3-Dichloropropene	25.0	26.6	26.3	106	105	79.0-123			0.977	20
trans-1,3-Dichloropropene	25.0	27.6	27.5	111	110	74.0-127			0.332	20
2,2-Dichloropropane	25.0	24.9	24.7	99.5	98.9	60.0-125			0.577	20
Di-isopropyl ether	25.0	27.5	27.4	110	110	59.0-133			0.374	20
Ethylbenzene	25.0	22.8	23.4	91.3	93.5	77.0-120			2.37	20
Hexachloro-1,3-butadiene	25.0	19.1	18.9	76.2	75.5	64.0-131			1.03	20
Isopropylbenzene	25.0	26.0	25.8	104	103	75.0-120			0.808	20
p-Isopropyltoluene	25.0	23.6	23.1	94.5	92.4	74.0-126			2.28	20
2-Butanone (MEK)	125	157	154	126	124	37.0-158			1.95	20
Methylene Chloride	25.0	24.4	24.2	97.5	96.6	66.0-121			0.858	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316746-1 06/03/18 08:58 • (LCSD) R3316746-2 06/03/18 09:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	125	149	144	120	115	59.0-143			3.50	20
Methyl tert-butyl ether	25.0	28.2	27.9	113	112	64.0-123			1.14	20
Naphthalene	25.0	20.6	20.6	82.2	82.3	62.0-128			0.135	20
n-Propylbenzene	25.0	25.4	25.0	102	99.9	79.0-120			1.71	20
Styrene	25.0	29.2	29.0	117	116	78.0-124			0.826	20
1,1,1,2-Tetrachloroethane	25.0	23.9	23.6	95.8	94.3	75.0-122			1.58	20
1,1,2,2-Tetrachloroethane	25.0	29.5	28.7	118	115	71.0-122			2.83	20
Tetrachloroethene	25.0	21.9	21.9	87.4	87.7	70.0-127			0.270	20
Toluene	25.0	23.8	23.7	95.1	94.7	77.0-120			0.424	20
1,1,2-Trichlorotrifluoroethane	25.0	24.6	26.0	98.5	104	61.0-136			5.32	20
1,2,3-Trichlorobenzene	25.0	20.6	20.3	82.3	81.3	61.0-133			1.25	20
1,2,4-Trichlorobenzene	25.0	24.0	23.5	95.8	93.9	69.0-129			1.99	20
1,1,1-Trichloroethane	25.0	23.8	23.7	95.3	94.9	68.0-122			0.476	20
1,1,2-Trichloroethane	25.0	24.5	23.5	98.0	93.9	78.0-120			4.26	20
Trichloroethene	25.0	23.8	23.7	95.2	94.9	78.0-120			0.284	20
Trichlorofluoromethane	25.0	23.6	23.8	94.3	95.2	56.0-137			1.04	20
1,2,3-Trichloropropane	25.0	30.7	29.7	123	119	72.0-124			3.14	20
1,2,3-Trimethylbenzene	25.0	27.0	26.7	108	107	75.0-120			1.09	20
1,2,4-Trimethylbenzene	25.0	25.8	25.3	103	101	75.0-120			1.98	20
1,3,5-Trimethylbenzene	25.0	25.2	24.5	101	98.1	75.0-120			2.64	20
Vinyl chloride	25.0	22.8	22.7	91.2	90.9	64.0-133			0.252	20
Xylenes, Total	75.0	70.5	69.2	94.0	92.3	77.0-120			1.86	20
(S) Toluene-d8				*93.8*	*96.1*	*80.0-120*				
(S) Dibromofluoromethane				*99.9*	*100*	*76.0-123*				
(S) 4-Bromofluorobenzene				*106*	*105*	*80.0-120*				

Method Blank (MB)

(MB) R3316595-3 06/03/18 11:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3316595-3 06/03/18 11:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*96.5*			*80.0-120*
(S) Dibromofluoromethane	*105*			*76.0-123*
(S) 4-Bromofluorobenzene	*115*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316595-1 06/03/18 09:56 • (LCSD) R3316595-2 06/03/18 10:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	186	179	149	143	10.0-160			3.98	23
Acrolein	125	183	183	146	146	10.0-160			0.0338	20
Acrylonitrile	125	154	165	123	132	60.0-142			7.24	20
Benzene	25.0	26.1	27.1	104	109	69.0-123			3.94	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316595-1 06/03/18 09:56 • (LCSD) R3316595-2 06/03/18 10:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	25.0	24.2	27.6	96.9	110	79.0-120			12.9	20
Bromodichloromethane	25.0	23.9	24.7	95.5	99.0	76.0-120			3.64	20
Bromoform	25.0	22.2	24.1	88.9	96.3	67.0-132			8.05	20
Bromomethane	25.0	25.7	24.5	103	97.9	18.0-160			5.02	20
n-Butylbenzene	25.0	23.4	24.5	93.6	98.1	72.0-126			4.68	20
sec-Butylbenzene	25.0	23.9	24.0	95.6	96.1	74.0-121			0.524	20
tert-Butylbenzene	25.0	22.6	23.2	90.5	93.0	75.0-122			2.65	20
Carbon tetrachloride	25.0	22.2	22.1	88.9	88.3	63.0-122			0.705	20
Chlorobenzene	25.0	20.7	21.0	82.9	83.9	79.0-121			1.20	20
Chlorodibromomethane	25.0	19.9	19.8	79.7	79.1	75.0-125			0.868	20
Chloroethane	25.0	26.6	28.1	106	112	47.0-152			5.47	20
Chloroform	25.0	23.2	23.6	93.0	94.5	72.0-121			1.67	20
Chloromethane	25.0	26.4	28.5	106	114	48.0-139			7.52	20
2-Chlorotoluene	25.0	25.3	27.0	101	108	74.0-122			6.38	20
4-Chlorotoluene	25.0	23.8	25.1	95.0	100	79.0-120			5.46	20
1,2-Dibromo-3-Chloropropane	25.0	20.5	21.7	81.8	86.7	64.0-127			5.84	20
1,2-Dibromoethane	25.0	21.0	20.5	84.0	82.0	77.0-123			2.41	20
Dibromomethane	25.0	22.7	24.7	90.9	98.7	78.0-120			8.23	20
1,2-Dichlorobenzene	25.0	21.4	23.4	85.6	93.8	80.0-120			9.14	20
1,3-Dichlorobenzene	25.0	22.0	23.1	87.9	92.5	72.0-123			5.07	20
1,4-Dichlorobenzene	25.0	21.0	21.9	83.9	87.7	77.0-120			4.43	20
Dichlorodifluoromethane	25.0	19.8	20.9	79.4	83.6	49.0-155			5.17	20
1,1-Dichloroethane	25.0	25.0	26.3	100	105	70.0-126			4.79	20
1,2-Dichloroethane	25.0	23.9	25.5	95.6	102	67.0-126			6.50	20
1,1-Dichloroethene	25.0	25.0	25.6	100	102	64.0-129			2.14	20
cis-1,2-Dichloroethene	25.0	24.2	24.7	97.0	98.9	73.0-120			1.98	20
trans-1,2-Dichloroethene	25.0	23.6	23.7	94.4	94.8	71.0-121			0.427	20
1,2-Dichloropropane	25.0	29.1	30.0	117	120	75.0-125			3.04	20
1,1-Dichloropropene	25.0	24.8	26.0	99.4	104	71.0-129			4.68	20
1,3-Dichloropropane	25.0	22.9	23.5	91.6	93.8	80.0-121			2.46	20
cis-1,3-Dichloropropene	25.0	22.2	21.9	88.7	87.8	79.0-123			1.05	20
trans-1,3-Dichloropropene	25.0	23.7	23.2	95.0	92.9	74.0-127			2.20	20
2,2-Dichloropropane	25.0	24.4	25.4	97.8	101	60.0-125			3.75	20
Di-isopropyl ether	25.0	28.1	28.8	112	115	59.0-133			2.30	20
Ethylbenzene	25.0	20.4	21.1	81.8	84.3	77.0-120			3.10	20
Hexachloro-1,3-butadiene	25.0	22.2	23.7	88.9	94.8	64.0-131			6.49	20
Isopropylbenzene	25.0	22.0	24.0	88.1	96.1	75.0-120			8.62	20
p-Isopropyltoluene	25.0	22.3	23.3	89.1	93.2	74.0-126			4.53	20
2-Butanone (MEK)	125	150	152	120	122	37.0-158			1.79	20
Methylene Chloride	25.0	24.1	23.6	96.2	94.6	66.0-121			1.73	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316595-1 06/03/18 09:56 • (LCSD) R3316595-2 06/03/18 10:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	125	128	126	103	101	59.0-143			1.89	20
Methyl tert-butyl ether	25.0	24.3	24.4	97.1	97.6	64.0-123			0.497	20
Naphthalene	25.0	20.3	22.6	81.2	90.3	62.0-128			10.6	20
n-Propylbenzene	25.0	24.2	26.3	96.9	105	79.0-120			8.10	20
Styrene	25.0	23.1	25.0	92.4	100	78.0-124			8.13	20
1,1,1,2-Tetrachloroethane	25.0	19.3	19.4	77.3	77.5	75.0-122			0.279	20
1,1,2,2-Tetrachloroethane	25.0	25.4	28.1	102	113	71.0-122			10.3	20
Tetrachloroethene	25.0	20.6	20.4	82.2	81.6	70.0-127			0.797	20
Toluene	25.0	22.2	21.9	88.6	87.8	77.0-120			1.01	20
1,1,2-Trichlorotrifluoroethane	25.0	25.5	26.9	102	108	61.0-136			5.32	20
1,2,3-Trichlorobenzene	25.0	20.9	23.3	83.7	93.3	61.0-133			10.9	20
1,2,4-Trichlorobenzene	25.0	21.6	23.1	86.3	92.4	69.0-129			6.78	20
1,1,1-Trichloroethane	25.0	22.6	22.3	90.5	89.4	68.0-122			1.23	20
1,1,2-Trichloroethane	25.0	21.5	20.7	85.8	82.9	78.0-120			3.40	20
Trichloroethene	25.0	20.7	21.1	82.9	84.3	78.0-120			1.72	20
Trichlorofluoromethane	25.0	24.4	25.2	97.5	101	56.0-137			3.47	20
1,2,3-Trichloropropane	25.0	21.6	23.1	86.5	92.5	72.0-124			6.64	20
1,2,3-Trimethylbenzene	25.0	21.8	22.8	87.4	91.0	75.0-120			4.08	20
1,2,4-Trimethylbenzene	25.0	22.7	23.2	90.9	92.8	75.0-120			2.06	20
1,3,5-Trimethylbenzene	25.0	22.6	23.0	90.2	92.0	75.0-120			1.97	20
Vinyl chloride	25.0	24.6	26.1	98.4	104	64.0-133			5.94	20
Xylenes, Total	75.0	62.0	63.4	82.7	84.5	77.0-120			2.23	20
(S) Toluene-d8				*98.6*	*95.8*	*80.0-120*				
(S) Dibromofluoromethane				*100*	*99.0*	*76.0-123*				
(S) 4-Bromofluorobenzene				*108*	*107*	*80.0-120*				

Method Blank (MB)

(MB) R3316801-3 06/10/18 10:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.331	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
Ethylbenzene	U		0.384	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Tetrachloroethene	U		0.372	1.00
Trichloroethene	U		0.398	1.00
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*89.8*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.2*			*80.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316801-1 06/10/18 09:16 • (LCSD) R3316801-2 06/10/18 09:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	21.3	20.0	85.2	80.0	69.0-123			6.19	20
cis-1,2-Dichloroethene	25.0	21.4	20.2	85.4	80.7	73.0-120			5.68	20
Ethylbenzene	25.0	23.8	23.1	95.4	92.4	77.0-120			3.14	20
Naphthalene	25.0	17.2	17.2	68.7	69.0	62.0-128			0.311	20
n-Propylbenzene	25.0	21.8	21.6	87.2	86.5	79.0-120			0.834	20
Tetrachloroethene	25.0	24.2	22.7	96.7	91.0	70.0-127			6.14	20
Trichloroethene	25.0	24.7	23.8	98.6	95.2	78.0-120			3.55	20
1,2,3-Trimethylbenzene	25.0	20.3	20.3	81.0	81.2	75.0-120			0.220	20
1,2,4-Trimethylbenzene	25.0	20.3	20.3	81.1	81.1	75.0-120			0.0148	20
1,3,5-Trimethylbenzene	25.0	21.4	21.0	85.6	84.0	75.0-120			1.88	20
Xylenes, Total	75.0	68.8	66.7	91.7	88.9	77.0-120			3.10	20
(S) Toluene-d8				*103*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*91.6*	*91.6*	*76.0-123*				
(S) 4-Bromofluorobenzene				*92.1*	*96.8*	*80.0-120*				

Method Blank (MB)

(MB) R3315407-3 06/05/18 09:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Oxygen	0.910	J	0.225	2.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315407-1 06/05/18 09:43 • (LCSD) R3315407-2 06/05/18 09:50

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oxygen	2.50	2.66	2.78	107	111	70.0-130			4.40	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
Z1	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

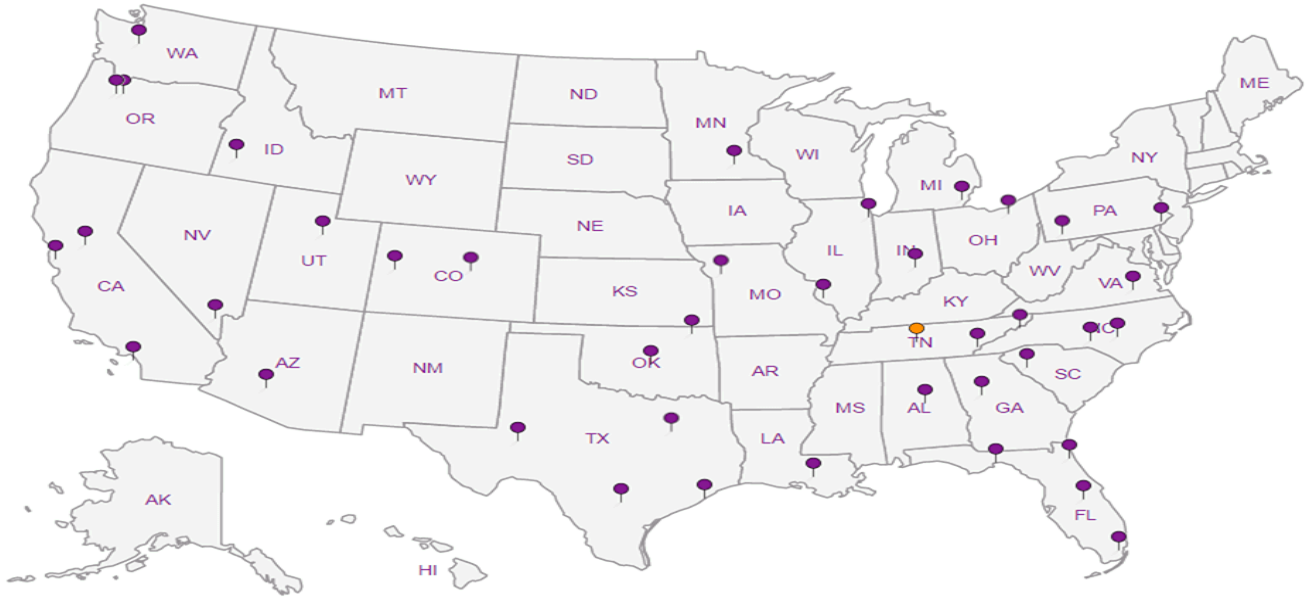
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Applied Water Resources
2363 Mariner Square Dr, Suite 245
Alameda, CA 94501

Billing Information:
Applied Water Resources
2363 Mariner Square Dr, Suite 245
Alameda, CA 94501

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: TYSON FULMER
Email To: TFULMER@AWRCORP.NET

Project Description: 1173 CAMPBELL AVE
City/State Collected: SAN JOSE CA

Phone: 510-671-2087
Fax:
Client Project # 1173 CAMPBELL
Lab Project #

Collected by (print): VOLA BAHRAM CHERYL CARY
Site/Facility ID #
P.O. #

Collected by (signature): Cheryl Cary
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified) ___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #
Date Results Needed

L# 998646
Tab G002
Acctnum: AWR
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs by 8260	TPHg by 8015	TD-15	Helium by ASTM D1946	Oxygen	Remarks	Sample # (lab only)
MW-1	GRAB	GW		5/30	1050	4	X	X					01
MW-2				5/30	1625	2							02
MW-3				5/30	1320	4		X					03
MW-4				5/31	933	4		X					04
MW-5				5/31	920	2							05
MW-6				5/31	907	2							06
MW-7				5/30	1120	2							07
MW-8				5/30	1155	2							08
MW-9				5/30	1645	2							09
MW-10				5/30	1450	2							10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____
Tracking # 4430 3421 8525

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	6/1/18	1030	[signature] ESC	
Relinquished by : (Signature) [signature] ESC	6/1/18	1630	Received by: (Signature) FedEx	Temp: 2.2 °C Bottles Received: 69
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 6/2/18 Time: 0845

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

Chain of Custody Page 2 of 3

ESC LAB SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 998646

Table #

Acctnum: APPWATACA

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Applied Water Resources
2363 Mariner Square Dr, Suite 245
Alameda, CA 94501

Billing Information:
Applied Water Resources
2363 Mariner Square Dr, Suite 245
Alameda, CA 94501

Pres Chk

Report to: TYSON FULMER

Email To: TFULMER@AWRCORP.NET

Project Description: 1173 CAMPBELL AVE

City/State Collected: SAN JOSE CA

Phone: 510-671-2087
Fax:

Client Project #

Lab Project #

Collected by (print): YOLA BAYRAM / CHERYL CARY

Site/Facility ID #

P.O. #

Collected by (signature): Cheryl Cary

Immediately Packed on Ice N ___ Y X

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	~~TPH~~ VOCs by 8260	TPH-g by 8015	TO-15	Helium & Oxygen by ASTM D1946	Naphthalene	Remarks	Sample # (lab only)
MW-12	GRAB	GW		5/31	942	2	X						11
MW-13				5/31	851	4		X					12
MW-14				5/31	811	4		X					13
MW-20				5/30	1250	2							14
MW-21				5/30	1420	2							15
MW-22				5/30	1517	2							16
MW-25				5/31	758	4		X					17
MW-27				5/31	1001	2							18
MW-30				5/31	835	2							19
MW-31				5/30	1640	2							20

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4930 3421 8525

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: X __N
Bottles arrive intact: X __N
Correct bottles used: X __N
Sufficient volume sent: X __N
If Applicable
VOA Zero Headspace: X __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	6/1/18	1030	[signature] ESC	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C Bottles Received: 59
[signature] ESC	6/1/18	1630	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/2/18 Time: 0645
			[signature]	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Applied Water Resources
2363 Mariner Square Dr, Suite 245
Alameda, CA 94501

Billing Information:
Applied Water Resources
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Alameda, CA 94501

Chain of Custody Page 3 of 3

ESC LAB SCIENCES
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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: TYSON FULMER
Email To: TFULMER@AWRCORP.NET
Project Description: 1173 CAMPBELL AVE.
City/State Collected: SAN JOSE CA
Phone: 510-671-2087
Fax:
Client Project #
Lab Project #
Collected by (print): CHERYL CARY YOLA BAMBAM
Site/Facility ID #
P.O. #
Collected by (signature): Cheryl Cary
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified) ___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Date Results Needed
Quote #

L# 99866
Table #
Acctnum: APPWATACA
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOCs by 8260	TPHg by 8015	TO-15	Helium & Oxygen by ASTM D1946	Naphthalene	Remarks	Sample # (lab only)
MW-31	GRAB	GW		5/30	1640	2	X						
MW-32				5/30	1548	2							22
MW-33				5/30	1459	2							23
MW-37				5/30	1233	2							24
MW-38				5/30	1016	2							25
MW-40				5/30	1603	2							26
MW-41				5/31	839	4		X					27
SG-2-1	GRAB	A		5/30	1240	1			X	X	X		28
SG-4-1				5/30	1022	1			X	X	X		29
SG-9-1				5/30	1132	1			X	X	X		30

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier __ _____
Tracking # 4430342185 25

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	6/1/18	1030	[signature] ESC	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C Bottles Received: 69
[signature] ESC	6/1/18	1630	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/2/18 Time: 0845
			[signature]	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Matt Shacklock

ESC LAB SCIENCES

YOUR LAB OF CHOICE

Login #:998646	Client: APPWATACA	Date:6/2	Evaluated by:Matt S

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: MW-31 on COC twice. Only received 1 set of vials

Client informed by:		Call		Email	x	Voice Mail		Date: 06/04/18	Time:1030
TSR Initials: bjf	Client Contact: PMs								

Login Instructions:

Proceed. Analyze MW-31 once.

◆ **GRI**
GeoRestoration, Inc.
(408) 779-5533 ⌗ Fax (408) 779-5530
15940 Concord Circle
Morgan Hill, CA 95037

July 11, 2011

Mr. Alex Lee
Department of Toxic Substances Control
700 Heinz Avenue, Building F, Suite 100
Berkeley, CA 94701

Subject: **Remediation Progress Report**
1173–1175 Campbell Avenue
San Jose, CA
Docket No. IS&E 05/06-012

Dear Mr. Lee:

Enclosed is GeoRestoration's Remediation Progress Report at the above-referenced site. The report contains a summary for the remedial activities to date. The site representative has reviewed the report and authorized submittal of the document.

If you have any questions or would like to discuss the site, please call me at (408) 779-5533.

Sincerely,

GEORESTORATION, INC.

Roger D. Dockter, P.G. #6152
Professional Geologist

cc: File
Ms. Jonnie Lindsell
RDD:rd\0543 rpt.doc

REMEDIATION PROGRESS REPORT
1173–1175 CAMPBELL AVENUE
SAN JOSE, CALIFORNIA
DOCKET NO. IS&E 05/06-012

Prepared for:

MS. JONNIE LINDSELL
1700 ESBERG ROAD
LOS ALTOS, CALIFORNIA 94024

Prepared by:

GEORESTORATION, INC.
15940 CONCORD CIRCLE
MORGAN HILL, CALIFORNIA 95037

July 11, 2011

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ACRONYMS AND ABBREVIATIONS

DPE	dual-phase extraction
DTSC	Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
ft	foot or feet
ft/ft	feet per feet
GRI	GeoRestoration, Inc.
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
PCE	tetrachloroethene
QA/QC	Quality Assurance/Quality Control
RAW	Remedial Action Workplan
SVE	soil vapor extraction
TBA	tert-butyl alcohol
TCE	trichloroethene
TD	total depth
1,1-DCE	1,1-dichloroethene
1,2-DCE	1,2-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
VC	vinyl chloride
VOC	volatile organic compounds
µg/L	micrograms per liter

Remediation Progress Report

1173–1175 Campbell Avenue, San Jose, California
Docket No. IS&E 05/06-012

July 11, 2011

I. INTRODUCTION

The site is referred to as the former A J Commercial Laundry and is located at 1173–1175 Campbell Avenue in San Jose, CA. In response to the DTSC comments and requests in a letter for the *Approval of Report for Site Investigation, Well Installation, and Remediation Progress* dated 5/26/11, this report has been prepared to present data for previous and continuing remedial activities, discuss deviations from and modifications to the scope of work presented in the Interim RAW, and present a schedule for additional interim removal actions including a schedule for progress reporting and an estimate for the removal action completion timeframe.

The project work was conducted under contract with the property owner. The completed environmental services include the preparation of work plans, a health and safety plan, and reports documenting the following:

- Site investigations to define the location of soil and groundwater impact;
- A soil gas survey;
- An indoor air survey;
- The installation of groundwater monitoring and extraction wells in the first water bearing zone;
- The installation of soil vapor extraction (SVE) wells in vadose zone soil;
- The operation of extraction and treatment systems to remove soil and groundwater contaminants; and
- Verification sampling, of soil, groundwater, and indoor air.

A. Site Location

The site is situated on two parcels, each approximately one acre, in a commercial/residential area of San Jose, CA. The site is located in the Santa Clara Valley Basin. The elevation of the area is approximately 70 feet above mean sea level (Figure 1). An aerial photograph showing the site is presented in Figure 2. Figure 3 is a general map of the area that shows nearby properties with current and past occupant descriptions. Figure 3 also presents the two main areas where continued remedial efforts are needed to reduce contaminant concentrations in soil and groundwater exceeding remediation goals.

Figure 4a presents a site map, which illustrates the subject area and the locations of vapor extraction wells installed to complete a well network in the area of known soil impact. Figure 4b and 4c present

the locations of a network of monitoring wells completed at depths up to 20 feet and a second network completed to a depth of approximately 30 feet, respectively.

B. Site History

The site is a commercial property which was formerly occupied by a number of business tenants, including a commercial laundry (A J Commercial Laundry), a janitorial supply company (All-Chem Supply) now occupied by a packaging supply company, a cabinet shop, and a plumbing company. The western half of the site contains the packaging company with offices at the front of Building 1 and the remaining portion of Building 1 is used as a warehouse. The other building on the western side (Building 2) is either unoccupied or used for storage with minor entry and occupancy time. The building located on the eastern half of the property is vacant, but contains various refuse and materials left behind by former tenants.

A number of remedial activities have been performed at the site. The chronology of site work is as follows.

May 2005 – A site investigation involving grab groundwater sampling was completed by GeoRestoration, Inc. The investigation was completed to screen the site prior to a future sale of the property. A report was submitted to the Santa Clara Valley Water District on 8/15/05 to disclose the detection of groundwater impact. Measurements obtained during the May sampling event indicated that groundwater was encountered between 6.5 to 11.5 feet below grade and stabilized between 4 to 11.5 feet below grade. Soil (to a depth of at least 16 feet) was primarily a silty clay with interbeds (generally 2 feet or less, but up to 5 feet thick) of clayey gravel, gravelly sand, clayey sand, and silty sand. The 2005 groundwater analytical results were presented in a report dated 8/10/05.

December 2006 – A soil gas survey was completed at the site. Samples were collected at 20 locations. A soil gas report dated 4/2/07 was submitted to DTSC. The report presented modeling results of soil gas data that indicated areas which had exceeded risk or hazard quotient values for vapor intrusion to indoor air.

January 2007 – Six wells were installed on 1/4 and 1/8/07. A well survey was completed on 1/9/07. The wells were developed on 1/10/07 and purged and sampled on 1/12/07. The well installation details and results of soil and groundwater sampling were presented in a report dated 7/16/07.

May and June 2007 – Thirty-five soil borings were completed to sample soil. The samples were spaced to screen soil throughout the property. The borings were completed on 5/30/07, 5/31/07, and 6/1/07. The results of the soil sampling were included in the 7/16/07 report.

February 2008 – Two exploratory borings were completed to log subsurface soils on 2/11 and 2/12/08. The borings determined that porous soils (sands or gravels) were present below finer grained soils logged to a depth of 17 to 18 feet. In addition, the borings confirmed the presence of a confining clay layer reported at a depth of approximately 30 feet at nearby sites. Grab groundwater samples were also collected in the porous soils (encountered in the exploratory borings) to determine if volatile organic compounds (VOCs) were present. The borings were continuously sampled to determine lithology and aid in well design for the proposed monitoring wells. Based on the results of soil and groundwater

sampling in the exploratory borings, 12 wells were installed to a depth of approximately 30 feet with 8 feet of well screen at the bottom of each well.

The wells (MW-7 through MW-18) were installed from 2/22 through 2/28/08. Well development occurred from 2/25 through 2/29/08, and well sampling was completed on 3/5 through 3/7/08. An indoor air survey was completed on 3/11/08, and the wells were surveyed on 3/18/08. The results of the activities performed in February and March 2008 were presented in a site investigation report dated 7/28/08.

April and May 2010 – Fourteen soil vapor extraction wells were installed to further complete a grid of vapor extraction wells within the area of known soil impact located towards the front of the property. The wells were installed in April 2010 and are numbered VE-9 to VE-22. The wells contained 5 feet of screen and are being used to extract VOCs from the vadose zone.

Thirteen groundwater monitoring wells were installed to a depth of approximately 20 feet with 5 feet of well screen at the bottom of each well and seven groundwater monitoring wells were installed to a depth of approximately 30 feet with 5 to 8 feet of well screen at the bottom of each well. The monitoring wells were developed and then purging and sampling occurred at least two days following the development of each well. The installation of the additional vapor extraction and monitoring wells is documented in a report dated 1/27/11.

July and September 2010 – Soil and groundwater verification samples were collected to determine remediation progress. Soil samples were collected at fourteen locations and analyzed. Four wells (MW-4, 5. 26, and 29) were sampled in the July verification testing to determine the timing of a more complete verification sampling event. In September, eight wells were sampled to determine remediation progress in areas that had undergone remediation by dual-phase extraction (DPE). The results of the sampling are presented in the *Report of Site Investigation, Well Installation, and Remediation Progress* dated 1/27/11.

May 2011 – Groundwater verification samples were collected from 18 wells and analyzed for VOCs. The results of the sampling are presented in this report.

An initial two week period of soil vapor extraction occurred at the site followed by periods of DPE or soil vapor extraction on various group of wells. Results of remedial activities are summarized in Section VI.

C. Objective and Scope of Work

Soil impact that was significantly above remediation goals occurred mainly on the eastern half of the site and below the front two-thirds of Building 3. The initial remedial objective was to focus extraction efforts on this vadose zone soil to remove the source for contaminant migration to indoor air or groundwater. When soil vapor extraction resulted in low mass removal rates, the objective was modified to continue soil remediation and begin groundwater remediation.

Groundwater impact occurs mainly in finer-grained saturated sediments from the top of the water table to a depth of approximately 20 feet below grade. Therefore, the primary focus of the initial DPE events was the use of wells installed to a depth of 20 feet to extract groundwater with the highest concentrations of VOCs, primarily tetrachloroethene (PCE). A few short term extraction tests were

completed on deeper wells to determine well performance. Therefore, the remedial objective to date has been to concentrate extraction on significantly impacted vadose zone source areas and the wells with higher concentrations of dissolved-phase contaminant in the finer grained saturated zone to a depth of 20 feet. DPE has not been used for multiple days to extract deeper impact, but a few short term extraction tests have been performed. When the concentrations in this shallower saturated zone are reduced, then remediation of the deeper screened wells will occur in areas with known impact.

A change to the scope of work may be proposed to add an additional treatment system to the site and also to propose an in situ oxidation approach to groundwater with lower contaminant concentrations.

II. SITE DESCRIPTION

A. Site

The site is flat with buildings along the eastern and western sides of the property (except for the southeastern corner of the site, which is undeveloped). A paved driveway runs down the center of the property. Most of the site is paved. The site previously contained underground fuel storage tanks located in the central portion of the site. There are sumps at the southwestern corner of the property and what appears to be a filled sump within the building on the eastern side of the property. The sumps at the south end of the property were used by the laundry for waste water processing. Most of the machinery used by the laundry has been removed.

Currently, the west side of the property (area with little or no impact) is being leased for storage. There is one occupant conducting business out of offices located at the front of Building 1 located on the western side of the property. The eastern side of the property, where most of the remedial activities and sampling has occurred, contains debris and materials left behind by former tenants. A recent inventory was completed to determine if any hazardous materials are present and how remaining materials should be removed and disposed. This is further discussed in Section III.

B. Hydrology/Groundwater Depth/Elevation and Flow Direction

The first encountered water-bearing zone occurs in sediments that consist primarily of silty clay and silt to a depth of 18 to 20 feet below grade. The wells in this interval yield low flows and had significant draw down when developed. However, groundwater production is enhanced when vacuum is applied during DPE events. Wells completed below a depth of 20 feet have screened intervals in sediments logged mainly as silt, sand, or sand and gravel. These wells produced higher flow rates during short term extraction tests.

The most recent groundwater verification sampling event occurred on 5/20/11. Groundwater was recorded at depths of 4.25 to 6.85 feet below grade when measured on 5/20/11. The calculated groundwater elevations in wells at the site ranged in elevation from 57.40 to 60.15 feet on 5/20/11.

<u>Wells (total depth of 20 feet or less)</u>

Groundwater flow in May 2011 was generally northeasterly at the front of the site, but continues to be southwesterly in the rear unpaved portion of the property. The groundwater gradient at the southeast rear of the property was calculated at 0.023 to 0.070 ft/ft and at the front portion of the property was 0.005 to 0.009 ft/ft. The flow directions and gradients determined using data from the shallow wells

tends to be variable and may be influence by infiltration of ponded surface water during wet periods. The groundwater contour map for shallow screened wells is presented in Figure 5a.

Wells (total depth of 30 feet or less)

Groundwater flow in May 2011 was generally north to northeasterly throughout the property. The groundwater gradient at the rear of the property was calculated at 0.003 ft/ft and at the front portion of the property was 0.004 to 0.014 ft/ft. The groundwater contour map for the deeper screened wells is presented in Figure 5b.

C. Topography

Figure 1 shows the major topographic features of the area surrounding the site. The surface elevation at the site is approximately 70 feet above mean sea level.

III. DEVIATIONS FROM THE INTERIM RAW

The Interim Remdial Action Workplan (RAW) dated 4/30/09 stated that up to eight SVE wells would be installed for the initial extraction period. However, in April and May 2010 additional step-out vapor extraction wells were installed with DTSC concurrence because of elevated concentrations of VOCs in the soil encountered during site investigation activities. A total of 22 soil vapor extraction wells are currently installed at the site and are being used to remediate soil impact.

Up to five sub-slab base rock extraction points were proposed in the Interim RAW. The sub-slab wells were installed to quickly remove vapors that accumulate below the concrete floor of Building 3. Initial vapor extraction from sub-slab wells occurred from 1/26/10 to 2/08/10. Extraction has been attempted at times to determine if vapor has accumulated and should be removed. However, the SVE well network appears to be sufficient in preventing vapor buildup beneath the concrete floor. Therefore, the sub-slab wells are generally replaced by the shallow vapor extraction wells during additional SVE events.

Indoor air sampling was conducted on 3/11/08 throughout the site and reported in the report dated 7/28/08. Additional verification samples were collected on 12/02/09, 1/31/10, and 2/21/10. The sample location map is provided in Appendix A. The initial verification sampling indicated that significant indoor air concentrations were still present at location 3C, even though vapor extraction should have controlled intrusion into the building. The second verification sampling result (1/31/10) was even higher than the first at location 3C. The third sampling results for samples at three locations indicated a lower concentration at location 3C and 3D, but a similar concentration at location 3A when compared to the 3/11/08 indoor air sampling event results. Because SVE and/or DPE was occurring in the area of the 3C samples for approximately three weeks prior to the last sample, a high indoor air concentration was not expected. Therefore, it appeared that sources might be present in the building that might be affecting test results or the control of the intrusion was slower than anticipated. A recent inventory was completed throughout Building 3 and located containers with substances (such as waste oil and unused cleaning supplies) that may have affected the indoor air results. Therefore, additional sampling will not be conducted until these containers are removed. As previously stated, an inventory of the site has been completed and the property owner is in the process of removing materials left by others. The results of indoor air samples are summarized in Table 6 and analytical reports included in Appendix A.

IV. VERIFICATION MONITORING

A. Soil and Groundwater

In April 2010, a limited number of soil samples were collected and analyzed during the installation of monitoring wells and vapor extraction wells to fill data gaps or as initial verification samples for remediation tracking. In November 2010, additional soil verification samples were collected throughout the area that had undergone soil vapor extraction. A total of 42 soil samples were collected and analyzed. The soil verification sampling results were presented in the 1/27/11 report. No additional verification samples have been collected at the site since November 2010. A summary of soil data for selected VOCs is presented in Table 2. Table 3 presents the percent reduction of PCE in soil by comparing the most recent verification sample concentration to the nearest previous sample concentration. The table also indicates sample locations with concentrations that are below the PCE target concentration goals. Figures 6a through 6c present soil data and indicate areas exceeding PCE target concentration goals.

Groundwater verification samples were collected from select wells to determine remediation progress. Wells MW-1 through MW-6 and MW-26 through MW-31 were sampled at intervals in 2010 and all wells were included in the May 2010 sampling event. Groundwater samples were obtained from eighteen wells in May 2011 (MW-1 through MW-6, MW-12, MW-16, MW-17, MW-20, MW-25 through MW-31, and MW-33). This sampling was the second comprehensive groundwater verification sampling event. Table 4 summarizes groundwater data collected throughout the project. Table 5 presents the percent reduction or increase from the highest PCE concentration in a previous well sample compared to the most recent sample collected in either May 2010 or May 2011.

B. Laboratory Analysis

Soil and groundwater samples were discretely analyzed in accordance with the applicable test methods contained in SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (Third Edition, 1986), approved American Society for Testing and Materials procedures.

Soil and groundwater samples were analyzed for volatile organic compounds using EPA method 8260B. Sampling methods followed procedures presented in the RAW.

The laboratory performing the soil and groundwater analyses was McCampbell Analytical (DHS Certification #1644) located in Pittsburg, CA. The analytical report for groundwater analyses is presented in Appendix A. The soil reports were provided in the 1/27/11 report and are divided by those collected from vapor extraction wells, those collected from monitoring well borings, and those collected from borings as soil verification samples.

C. Quality Assurance/Quality Control (QA/QC)

<u>Field QA/QC</u>

All field equipment used for groundwater sampling in May 2011 was cleaned and decontaminated prior to being introduced into the sampling environment. The sampling protocol for this sampling event is presented in Appendix C and the results reported in Table 4.

Laboratory QA/QC

GRI used an approved analytical laboratory certified by the State of California Environmental Protection Agency Waste Testing Laboratory Certification Program. The methods used by the laboratory are published and approved analytical methods incorporating standard QA/QC practices. The laboratory provided pertinent QA/QC documents. Copies of such documents are included with the laboratory reports.

V. RESULTS

A. Laboratory Analysis

The soil sample analytical results from previous sampling events are presented in Tables 2 and 3. Table 2 presents the concentrations of PCE and breakdown products of PCE detected in the soil samples from 2007 and 2010. Table 3 compares soil sample analyses collected during site investigations in 2007 with verification sample analyses collected following remediation activities in November 2010.

Table 4 presents all groundwater sampling results prior to and following groundwater extraction events. Extraction activities have focused mainly on the front half of the site along the eastern side. A short period of extraction has also occurred at the rear unpaved portion of the site (eastern side of property), but no verification sampling has been competed for this area.

VOCs – Soil

Table 2 presents results for VOC analyses for soil samples collected in 2007 and 2010. PCE was the predominate contaminant detected in most samples with a few samples containing breakdown compounds of PCE (TCE, 1,1-DCE, cis-1,2 DCE, trans-1,2 DCE, and VC). Of the total number of samples presented in Table 3, 46 of 93 samples are less than the remediation goal concentration of 0.37 mg/kg (the PCE Final Residential ESL). The remaining samples contained PCE at concentrations above the PCE remediation goal ranging from 0.4 to 16 mg/kg. Verification soil samples collected in November 2010 indicated significant reductions in the areas with previous periods of soil vapor extraction with only two remaining detections of PCE greater than 10 mg/kg rather than the 15 at the start of remediation. Further soil vapor extraction will be focused on the locations containing concentrations exceeding the remediation target goals.

VOCs – Groundwater

Table 4 presents results for selected VOC groundwater analyses. PCE was quantified in all but one of the May 2011 samples, with concentrations ranging from 1.8 µg/L (MW-6) to 4,000 µg/L (MW-4). The concentrations of PCE detected in groundwater samples collected in May 2011 indicate significant reductions in most wells where DPE occurred. Even with an 81% reduction, the area represented by well MW-4 continues to contain the highest PCE groundwater concentration (4,000 ug/L). This area is currently undergoing further extraction. Additional extraction throughout the site will also focus on remaining areas with concentrations above the remediation target goal of 5 ug/L for PCE (Drinking Water MCL for PCE).

TCE and cis-1,2-DCE were also prevalent in a number of the May 2010 or May 2011samples, with concentrations of TCE up to 380 µg/L (MW-1 on 5/20/11) and cis-1,2-DCE up to 3,100 µg/L (MW-13 on 5/12/10).

Trans-1,2-DCE was quantified in one well (MW-14) at a concentration of 99 ug/L in May 2010, but not present in samples collected in May 2011.

1,1-DCE has not been quantified, but in some wells the test detection limit is as high as 500 ug/L.

Vinyl chloride was detected in ten wells in May 2010 with the highest concentration being reported in well MW-25 at 230 µg/L on 5/11/10. The concentration in May 2011 was for a sample from MW-25 was 32 ug/L. Only one other well sampled in May 2011contained VC (MW-6 at 7.40 ug/L).

Other compounds detected in groundwater appear to be related to past underground fuel tanks or other site activities. Concentrations of TBA, benzene, n-butyl benzene, sec-butyl benzene, ethylbenzene, isopropylbenzene, n-propyl benzene , toluene, 1,2,4-trimethylbenznene, 1,3,5-trimethylbenzene, and total xylenes exist in the area of the tank locations and former cabinet shop.

B. Interpretation of Results

Soil Chemistry Results

PCE is the contaminant with the most widespread area of impact. Figures 6a, 6b, and 6c present visual summaries of concentrations of PCE in soil including the November 2010 verification sample concentrations. Figure 6a presents concentrations in soil at a depth of 1.0-1.5 feet, Figure 6b presents concentrations in soil at a depth of 3.0-3.5 feet. Figure 6c presents concentrations in soil at a depth of 5.0-5.5 feet. Each figure shows outlined areas in which soil concentrations exceed the remediation goal for PCE. Other contaminants of concern will also be used to guide remediation efforts, if their concentrations exceed regulatory limits.

Groundwater Chemistry Results

Groundwater concentrations of PCE are highest in the upper portion of the saturated zone comprised of finer grain sediments. Remedial efforts have focused on removing this impact prior to extracting from the lower portion of the aquifer to reduce the potential spread of contaminant. Figure 7 presents the concentrations of PCE in wells completed at a depth of 20 feet or less. The concentrations presented are for May 2010, September 2010, and May 2011. A comparison of the May 2010, September 2010, and May 2011 results are also presented by comparing concentration contour maps illustrated on Figure 8a, 8b, and 8c, respectively.

VI. REMEDIATION SUMMARY

Soil vapor extraction was initiated at the site on 1/26/10. Soil vapor extraction focused on the area with the highest identified PCE concentrations using the initial vapor extraction wells installed. It was then expanded to include additional wells. During this period of operation (approximately four months in duration), remediation focused on soil impact in the vadose zone. Approximately 43 gallons of PCE were removed from soil.

Because of the large area of soil impact, vapor extraction was completed on groups of wells to maximize the efficiency and capacity of the treatment system. Moving the system between groups of wells also allowed rebound to occur prior to the next phase of extraction in an area. This pulsed mode of operation usually results in more mass being extracted for the time of operation. In mid May 2010, system operation was then changed to a dual-phase mode and extraction began on groundwater wells installed to a depth of 20 feet. This switched the focus to groundwater remediation, as well as allowing further soil vapor extraction in the vadose zone, smear zone, and the dewatered areas of previously saturated soil.

SVE and DPE have been performed from 1/26/10 to present. As of July 7/07/11 has removed approximately 123 gallons from the soil and groundwater (calculated as PCE). The data collected during system operation is presented in Appendix B. This appendix also contains a graph of influent concentrations (as PCE) recorded during system operation. After the initial few weeks of extraction, the removal rates have generally ranged from 0.25 to 0.5 gallons per day (calculated as PCE).

Significant concentration reductions have occurred in soil and groundwater in the areas that have undergone extraction. The reductions were discussed previously in this report. Although there have been approximately eleven months of system operation on various well groups, the reductions represent extraction time of only a few months on any given well. Continued remediation is focusing on areas above remediation target goals. Because the area of impact is so large, a second system may be installed to continue soil vapor extraction in the front portion of the eastern side of the property. The mobile system, currently at the site could then be moved around the site to complete dual-phase extraction on various well groups in other areas with soil impact, but would focus mainly on groundwater impact.

VII. PROJECT SCHEDULE

The following is an estimated schedule to complete remedial activities at the site.

Submittal of remediation progress reports on a semi-annual basis is proposed.

Installation of off-site wells will be completed as soon as possible. However, access onto off-site properties for well installation is ongoing and progress has been slow due to unresponsive land owners. Information obtained to obtain access agreements to place wells on city streets and sidewalks indicate that this approach may be cost prohibitive, as the permitting costs most likely would exceed well installation costs.

Additional indoor air sampling will be completed after Building 3 has been cleared of any wastes that may be influencing indoor air. Identification and proper disposal of building contents are in progress. Information regarding the contractor and disposal sites will be provided to DTSC prior to site work.

Completion of aggressive remedial activities is estimated at eight months or less if the current remediation system is operated continuously and a second system is installed at the site.

VIII. CONCLUSIONS

Based on the field observations and analytical results presented to date, the following conclusions are made:

- The lateral and vertical extent of soil and groundwater containing concentrations of VOCs are well defined within the bounds of the property.

- Offsite well locations are now proposed using the data generated to date. However, access onto off-site properties for well installation is ongoing and progress has been slow due to unresponsive land owners. Information obtained on the procedures to obtain access to install wells on city streets and sidewalks appears to be cost prohibitive, will be over regulated, and will most likely take more time than obtaining access from private property owners.

- Remediation (soil vapor extraction and dual-phase extraction) is proving to be highly effective in removing contaminant mass and reducing soil and groundwater concentrations. However, as groundwater concentrations are reduced, other remediation methods will be evaluated and proposed if more applicable and cost effective for completing remediation.

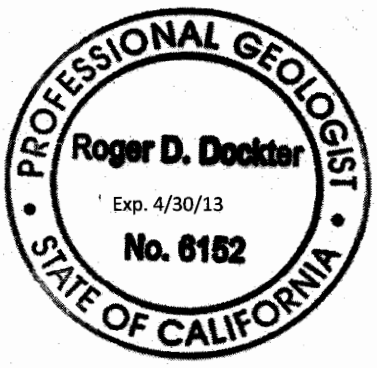
- For the system to be run at capacity with maximized removal rates, it must be relocated and operated in approximately three areas of the site. Currently these areas are in the front, middle, and rear of the eastern half of the site (the one acre area with highest identified contaminant concentrations). Therefore a second system may be installed at the site if allowed under the existing air board permit.

IX. CERTIFICATION

This report has been reviewed and approved by the responsible party.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a program designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the program, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

GeoRestoration,Inc.



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X. DISTRIBUTION

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XI. REFERENCES

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XII. LIMITATIONS

This report is based upon a specific scope of work. The information, interpretations, conclusions, and recommendations contained in this report have been prepared in accordance with generally accepted professional engineering and geologic practices. Site conditions can vary from those encountered during the time and locations where data are obtained, which may result in some degree of uncertainty in the interpretation of these conditions. The services performed for the specific scope of work proposed were completed in a manner consistent with that level of care and skill ordinarily exercised by other professional environmental consultants. Changing conditions may lead to revisions of professional opinions, conclusions, and recommendations.

This report is intended only for the use of GRI's client and those listed in the distribution section of the report. GRI does not accept liability for unauthorized reliance or use by any other third party. GRI makes no expressed or implied warranty in regards to the contents of this report.

TABLES

Table 1 Well Construction Summary
AJ Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

Well No.	Drilling Method	Date Installed	TD Boring (feet)	TD Well (feet)	Borehole Diameter (inches)	Casing Material	Casing Diameter (inches)	Screen Size (inches)	Sand Pack Material	Screened Interval (ft.-BGS)	Sand Pack Interval (ft.-BGS)	Water-bearing Zone
MW-1	HSA	1/4/07	20	18	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-18	5-18	First
MW-2	HSA	1/4/07	18	18	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-18	5-18	First
MW-3	HSA	1/4/07	18.5	18	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-18	5-18	First
MW-4	HSA	1/8/07	17	17	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-17	5-17	First
MW-5	HSA	1/8/07	17	17	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-17	5-17	First
MW-6	HSA	1/8/07	17	17	8	SCH. 40 PVC	2.0	0.020	#3 sand	5-17	5-17	First
MW-7	HSA	2/22/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-8	HSA	2/22/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-9	HSA	2/22/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-10	HSA	2/22/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-11	HSA	2/25/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-12	HSA	2/25/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-13	HSA	2/25/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-14	HSA	2/26/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-15	HSA	2/26/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-16	HSA	2/28/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-17	HSA	2/28/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-18	HSA	2/27/08	30	30	8	SCH. 40 PVC	2.0	0.020	#3 sand	22.5-30	21.5-30	First
MW-19	HSA	4/28/10	20	19	8	SCH. 40 PVC	2.0	0.020	2/12 sand	14-19	12-19	First
MW-20	HSA	4/28/10	18.5	18	8	SCH. 40 PVC	2.0	0.020	2/12 sand	13-18	11-18	First
MW-21	HSA	5/4/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	13-18	11-18	First
MW-22	HSA	4/28/10	18.5	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	13-18	11-18	First
MW-25	HSA	4/28/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	15-20	13-20	First
MW-26	HSA	4/27/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12/sand	15-20	13-20	First
MW-27	HSA	4/28/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	15-20	13-20	First
MW-28	HSA	4/27/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	15-20	13-20	First
MW-29	HSA	4/27/10	20	20	8	SCH. 40 PVC	2.0	0.020	2/12 sand	15-20	13-20	First
MW-30	HSA	4/28/10	20	18	8	SCH. 40 PVC	2.0	0.020	2/12/sand	13-18	11-18	First
MW-31	HSA	4/29/10	20	19	8	SCH. 40 PVC	2.0	0.020	2/12 sand	14-19	12-19	First
MW-32	HSA	4/28/10	18.5	18	8	SCH. 40 PVC	2.0	0.020	2/12 sand	13-18	11-18	First

Table 1 Well Construction Summary (continued)
AJ Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

Well No.	Drilling Method	Date Installed	TD Boring (feet)	TD Well (feet)	Borehole Diameter (inches)	Casing Material	Casing Diameter (inches)	Screen Size (inches)	Sand Pack Material	Screened Interval (ft.-BGS)	Sand Pack interval (ft.-BGS)	Water-bearing Zone
MW-33	HSA	4/29/10	20	18	8	SCH. 40 PVC	2.0	0.020	2/12 sand	13-18	11-18	First
MW-37	HSA	5/3/10	30	30	8	SCH. 40 PVC	2.0	0.020	2/12 sand	23-30	21-30	First
MW-38	HSA	4/29/10	30	30	8	SCH. 40 PVC	2.0	0.020	2/12 sand	23-30	21-30	First
MW-39	HSA	4/29/10	30	30	8	SCH. 40 PVC	2.0	0.020	2/12 sand	25-30	23-30	First
MW-40	HSA	5/4/10	27	27	8	SCH. 40 PVC	2.0	0.020	2/12 sand	21-27	19-27	First
MW-41	HSA	5/3/10	30	30	8	SCH. 40 PVC	2.0	0.020	2/12 sand	22-30	20-30	First
MW-42	HSA	5/10/10	26.5	26	8	SCH. 40 PVC	2.0	0.020	2/12 sand	21-27	20-27	First
MW-43	HSA	5/4/10	30	30	8	SCH. 40 PVC	2.0	0.020	2/12 sand	22-30	20-30	First

Notes and abbreviations:
SCH. 40 PVC = polyvinyl chloride
HSA = hollow-stem auger
Sch. = schedule
Ft.-BGS = feet below ground surface
TD = total depth

Table 2 Selected Volatile Organic Compounds - Soil Sample Borings
A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-1d1.0	5/31/07	ND<0.0055	ND<0.0055	ND<0.0055	**0.13**	ND<0.0055	ND<0.0055
SB-1d5.0	5/31/07	ND<0.0047	ND<0.0047	ND<0.0047	**0.16**	ND<0.0047	ND<0.0047
SB-2d1.0	5/31/07	ND<0.050	ND<0.050	ND<0.050	**0.76**	ND<0.050	ND<0.050
SB-2d5.0	5/31/07	ND<0.0048	ND<0.0048	ND<0.0048	**0.20**	ND<0.0048	ND<0.0048
SB-3d1.5	5/31/07	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047
SB-3d3.5	5/31/07	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049
SB-3d5.5	5/31/07	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045
SB-4d1.0	5/31/07	ND<0.0049	ND<0.0049	ND<0.0049	**0.013**	**0.011**	ND<0.0049
SB-4d5.0	5/31/07	ND<0.0046	ND<0.0046	ND<0.0046	**0.014**	ND<0.0046	ND<0.0046
SB-5d1.0	5/31/07	ND<0.091	ND<0.091	ND<0.091	**1.1**	ND<0.091	ND<0.091
SB-5d5.0	5/31/07	ND<0.086	ND<0.086	ND<0.086	**0.79**	ND<0.086	ND<0.086
SB-6d1.0	5/31/07	ND<0.055	ND<0.055	ND<0.055	**0.82**	ND<0.055	ND<0.055
SB-6d5.0	5/31/07	ND<0.048	ND<0.048	ND<0.048	**0.87**	ND<0.048	ND<0.048
SB-7d1.0	5/31/07	ND<0.060	ND<0.060	ND<0.060	**1.1**	ND<0.060	ND<0.060
SB-7d5.0	5/31/07	ND<0.0066	ND<0.0066	ND<0.0066	**0.26**	ND<0.0066	ND<0.0066
SB-8d1.0	5/31/07	ND<0.031	ND<0.031	ND<0.031	**0.82**	ND<0.031	ND<0.031
SB-8d5.0	5/31/07	ND<0.051	ND<0.051	ND<0.051	**0.76**	ND<0.051	ND<0.051
SB-9d1.0	6/1/07	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0049
SB-9d5.0	6/1/07	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046
SB-10d1.0	5/30/07	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.0043	ND<0.0043
SB-10d5.0	5/30/07	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059	ND<0.0059
SB-11d1.0	5/31/07	ND<0.0051	ND<0.0051	ND<0.0051	**0.24**	ND<0.0051	ND<0.0051
SB-11d5.0	5/31/07	ND<0.0053	ND<0.0053	ND<0.0053	**0.13**	ND<0.0053	ND<0.0053
SB-12d1.0	5/31/07	ND<0.050	ND<0.050	ND<0.050	**0.48**	ND<0.050	ND<0.050
SB-12d5.0	5/31/07	ND<0.050	ND<0.050	ND<0.050	**0.73**	ND<0.050	ND<0.050
SB-13d1.0	5/30/07	ND<0.030	ND<0.030	ND<0.030	**0.55**	ND<0.030	ND<0.030
SB-13d5.0	5/30/07	ND<0.0053	ND<0.0053	ND<0.0053	**0.037**	ND<0.0053	ND<0.0053
SB-14d1.0	5/31/07	ND<0.025	**0.044**	ND<0.025	**0.12**	ND<0.025	ND<0.025
SB-14d5.0	5/31/07	ND<0.0048	ND<0.0048	ND<0.0048	**0.039**	ND<0.0048	ND<0.0048
SB-15d1.0	6/1/07	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045
SB-15d5.0	6/1/07	ND<0.0054	ND<0.0054	ND<0.0054	**0.0088**	ND<0.0054	ND<0.0054
SB-16d1.0	6/1/07	ND<0.0062	ND<0.0062	ND<0.0062	**0.028**	ND<0.0062	ND<0.0062
SB-16d5.0	6/1/07	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052	ND<0.0052
SB-17d1.0	5/31/07	ND<0.020	**0.060**	ND<0.020	ND<0.020	ND<0.020	ND<0.020
SB-17d3.0	5/31/07	ND<0.0048	ND<0.0048	ND<0.0048	**0.21**	ND<0.0048	ND<0.0048
SB-17d5.0	5/31/07	ND<0.0051	ND<0.0051	ND<0.0051	**0.064**	ND<0.0051	ND<0.0051
SB-18d1.0	5/30/07	ND<0.0086	ND<0.0086	ND<0.0086	**0.011**	ND<0.0086	ND<0.0086
SB-18d3.0	5/30/07	ND<0.27	ND<0.27	ND<0.27	**5.3**	ND<0.27	ND<0.27
SB-18d5.0	5/30/07	ND<0.33	ND<0.33	ND<0.33	**2.3**	ND<0.33	ND<0.33
SB-19d1.0	5/30/07	ND<0.51	ND<0.51	ND<0.51	**15**	ND<0.51	ND<0.51
SB-19d3.0	5/30/07	ND<1.5	ND<1.5	ND<1.5	**36**	ND<1.5	ND<1.5
SB-19d5.0	5/30/07	ND<1.4	ND<1.4	ND<1.4	**53**	ND<1.4	ND<1.4
SB-19d7.0	5/30/07	ND<0.39	ND<0.39	ND<0.39	**11**	ND<0.39	ND<0.39
SB-20d1.0	5/31/07	ND<0.50	**6.1**	ND<0.50	**0.91**	ND<0.50	**4.4**
SB-20d3.0	5/31/07	ND<1.0	**1.8**	ND<1.0	**26**	ND<1.0	ND<1.0
SB-20d5.0	5/31/07	ND<0.18	**0.20**	ND<0.18	**2.7**	ND<0.18	ND<0.18
SB-21d1.0	6/1/07	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054
SB-21d5.0	6/1/07	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044	ND<0.0044
SB-22d1.0	6/1/07	ND<0.005	ND<0.005	ND<0.005	**0.0079**	ND<0.005	ND<0.005
SB-22d5.0	6/1/07	ND<0.025	ND<0.025	ND<0.025	**0.47**	**0.036**	ND<0.025
SB-23d1.0	6/1/07	ND<0.95	ND<0.95	ND<0.95	**7.9**	ND<0.95	ND<0.95
SB-23d3.0	6/1/07	ND<2.1	ND<2.1	ND<2.1	**17**	ND<2.1	ND<2.1

Table 2 Selected Volatile Organic Compounds - Soil Sample Borings
A J Commercial
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-23d5.0	6/1/07	ND<0.10	ND<0.10	ND<0.10	**3.2**	ND<0.10	ND<0.10
SB-23d7.0	6/1/07	ND<0.50	ND<0.50	ND<0.50	**3.8**	ND<0.50	ND<0.50
SB-24d3.0	5/30/07	ND<0.90	ND<0.90	ND<0.90	**44**	ND<0.90	ND<0.90
SB-24d5.0	5/30/07	ND<2.6	ND<2.6	ND<2.6	**42**	ND<2.6	ND<2.6
SB-24d7.0	5/30/07	ND<0.60	ND<0.60	ND<0.60	**11**	ND<0.60	ND<0.60
SB-25d3.0	5/30/07	ND<0.90	ND<0.90	ND<0.90	**20**	ND<0.90	ND<0.90
SB-25d5.0	5/30/07	ND<0.62	ND<0.62	ND<0.62	**18**	ND<0.62	ND<0.62
SB-25d7.0	5/30/07	ND<0.46	ND<0.46	ND<0.46	**6.6**	ND<0.46	ND<0.46
SB-26d1.0	6/1/07	ND<1.7	ND<1.7	ND<1.7	**31**	ND<1.7	ND<1.7
SB-26d3.0	6/1/07	ND<1.9	ND<1.9	ND<1.9	**17**	ND<1.9	ND<1.9
SB-26d5.0	6/1/07	ND<2.1	ND<2.1	ND<2.1	**16**	ND<2.1	ND<2.1
SB-26d7.0	6/1/07	ND<0.47	ND<0.47	ND<0.47	**6.3**	ND<0.47	ND<0.47
SB-27d1.5	5/30/07	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB-27d5.5	5/30/07	ND<0.0049	**0.006**	ND<0.0049	**0.01**	**0.005**	ND<0.0049
SB-28d1.5	5/30/07	ND<0.005	ND<0.005	ND<0.005	**0.22**	ND<0.005	ND<0.005
SB-28d5.5	5/30/07	ND<0.022	ND<0.022	ND<0.022	**0.48**	ND<0.022	ND<0.022
SB-29d1.0	6/1/07	ND<0.93	ND<0.93	ND<0.93	**8.2**	ND<0.93	ND<0.93
SB-29d3.0	6/1/07	ND<0.92	ND<0.92	ND<0.92	**13**	ND<0.92	ND<0.92
SB-29d5.0	6/1/07	ND<1.1	ND<1.1	ND<1.1	**7.9**	ND<1.1	ND<1.1
SB-29d7.0	6/1/07	ND<0.34	ND<0.34	ND<0.34	**3.4**	ND<0.34	ND<0.34
SB-30	NS	-	-	-	-	-	-
SB-31d1.0	5/30/07	ND<0.24	ND<0.24	ND<0.24	**4.7**	ND<0.24	ND<0.24
SB-31d3.0	5/30/07	ND<0.24	ND<0.24	ND<0.24	**2.8**	ND<0.24	ND<0.24
SB-31d5.0	5/30/07	ND<0.25	ND<0.25	ND<0.25	**3.1**	ND<0.25	ND<0.25
SB-31d7.0	5/30/07	ND<0.044	ND<0.044	ND<0.044	**0.64**	ND<0.044	ND<0.044
SB-32d3.0	6/1/07	ND<0.091	ND<0.091	ND<0.091	**1.6**	ND<0.091	ND<0.091
SB-32d5.0	6/1/07	ND<0.020	ND<0.020	ND<0.020	**0.52**	ND<0.020	ND<0.020
SB-33d1.5	5/30/07	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057	ND<0.0057
SB-33d5.5	5/30/07	ND<0.0046	ND<0.0046	ND<0.0046	**0.0084**	ND<0.0046	ND<0.0046
SB-34d1.0	6/1/07	ND<0.0054	ND<0.0054	ND<0.0054	**0.057**	ND<0.0054	ND<0.0054
SB-34d5.0	6/1/07	ND<0.0059	ND<0.0059	ND<0.0059	**0.044**	ND<0.0059	ND<0.0059
SB-35d1.0	6/1/07	ND<0.020	ND<0.020	ND<0.020	**0.47**	ND<0.020	ND<0.020
SB-35d5.0	6/1/07	ND<0.0097	ND<0.0097	ND<0.0097	**0.40**	ND<0.0097	ND<0.0097
SB-36d1.0	6/1/07	ND<0.12	ND<0.12	ND<0.12	**1.2**	ND<0.12	ND<0.12
SB-36d5.0	6/1/07	ND<0.10	ND<0.10	ND<0.10	**0.86**	ND<0.10	ND<0.10
VE9d3.0	4/14/10	ND<0.093	ND<0.093	ND<0.093	**1.9**	ND<0.093	ND<0.093
VE9d5.0	4/14/10	ND<0.20	ND<0.20	ND<0.20	**2.9**	ND<0.20	ND<0.20
VE13d3.0	4/14/10	ND<1.1	ND<1.1	ND<1.1	**25**	ND<1.1	ND<1.1
VE13d5.0	4/14/10	ND<1.0	ND<1.0	ND<1.0	**16**	ND<1.0	ND<1.0
VE17d3.0	4/14/10	ND<0.028	ND<0.028	ND<0.028	**0.69**	ND<0.028	ND<0.028
VE17d5.0	4/14/10	ND<0.24	ND<0.24	ND<0.24	**5.5**	ND<0.24	ND<0.24
VE10d5.0	4/14/10	ND<0.54	ND<0.54	ND<0.54	**12**	ND<0.54	ND<0.54
VS-1d1.0	11/3/10	ND<0.0088	ND<0.0088	ND<0.0088	**0.24**	ND<0.0088	ND<0.0088
VS-1d3.0	11/3/10	ND<0.048	ND<0.048	ND<0.048	**1.1**	ND<0.048	ND<0.048
VS-1d5.0	11/3/10	ND<0.025	ND<0.025	ND<0.025	**0.93**	ND<0.025	ND<0.025
VS-2d1.0	11/3/10	ND<0.0054	ND<0.0054	ND<0.0054	**0.046**	ND<0.0054	ND<0.0054
VS-2d3.0	11/3/10	ND<0.028	ND<0.028	ND<0.028	**0.61**	ND<0.028	ND<0.028
VS-2d5.0	11/3/10	ND<0.047	ND<0.047	ND<0.047	**1.3**	ND<0.047	ND<0.047
VS-3d1.0	11/3/10	ND<0.0052	ND<0.0052	ND<0.0052	**0.14**	ND<0.0052	ND<0.0052
VS-3d3.0	11/3/10	ND<0.0055	ND<0.0055	ND<0.0055	**0.095**	ND<0.0055	ND<0.0055
VS-3d5.0	11/3/10	ND<0.021	ND<0.021	ND<0.021	**0.67**	ND<0.021	ND<0.021
VS-4d1.0	11/3/10	ND<0.0056	ND<0.0056	ND<0.0056	**0.13**	ND<0.0056	ND<0.0056

Table 2 Selected Volatile Organic Compounds - Soil Sample Borings
A J Commercial
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VS-4d3.0	11/3/10	ND<0.021	ND<0.021	ND<0.021	**0.47**	ND<0.021	ND<0.021
VS-4d5.0	11/3/10	ND<0.024	ND<0.024	ND<0.024	**0.85**	ND<0.024	ND<0.024
VS-5d1.0	11/3/10	ND<0.020	ND<0.020	ND<0.020	**0.6**	ND<0.020	ND<0.020
VS-5d3.0	11/3/10	ND<0.0053	ND<0.0053	ND<0.0053	**1.6**	ND<0.0053	ND<0.0053
VS-5d5.0	11/3/10	ND<0.19	ND<0.19	ND<0.19	**3.3**	ND<0.19	ND<0.19
VS-6d1.0	11/3/10	ND<0.19	ND<0.19	ND<0.19	**3.9**	ND<0.19	ND<0.19
VS-6d3.0	11/3/10	ND<0.11	ND<0.11	ND<0.11	**4.5**	ND<0.11	ND<0.11
VS-6d5.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**2.6**	ND<0.10	ND<0.10
VS-7d1.0	11/3/10	ND<1.0	ND<1.0	ND<1.0	**11**	ND<1.0	ND<1.0
VS-7d3.0	11/3/10	ND<1.2	ND<1.2	ND<1.2	**16**	ND<1.2	ND<1.2
VS-7d5.0	11/3/10	ND<0.50	ND<0.50	ND<0.50	**8.0**	ND<0.50	ND<0.50
VS-8d1.0	11/3/10	ND<0.0055	ND<0.0055	ND<0.0055	**0.0076**	ND<0.0055	ND<0.0055
VS-8d3.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**1.8**	ND<0.10	ND<0.10
VS-8d5.0	11/3/10	ND<0.098	ND<0.098	ND<0.098	**3.0**	ND<0.098	ND<0.098
VS-9d1.0	11/3/10	ND<0.0051	ND<0.0051	ND<0.0051	**0.14**	ND<0.0051	ND<0.0051
VS-9d3.0	11/3/10	ND<0.023	ND<0.023	ND<0.023	**0.78**	ND<0.023	ND<0.023
VS-9d5.0	11/3/10	ND<0.049	ND<0.049	ND<0.049	**0.85**	ND<0.049	ND<0.049
VS-10d1.0	11/3/10	ND<0.084	ND<0.084	ND<0.084	**1.0**	ND<0.084	ND<0.084
VS-10d3.0	11/3/10	ND<0.19	ND<0.19	ND<0.19	**2.6**	ND<0.19	ND<0.19
VS-10d5.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**1.6**	ND<0.10	ND<0.10
VS-11d1.0	11/3/10	ND<0.0043	ND<0.0043	ND<0.0043	**0.0054**	ND<0.0043	ND<0.0043
VS-11d3.0	11/3/10	ND<0.19	ND<0.19	ND<0.19	**4.7**	ND<0.19	ND<0.19
VS-11d5.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**1.1**	ND<0.10	ND<0.10
VS-12d1.0	11/3/10	ND<0.48	ND<0.48	ND<0.48	**10**	**0.62**	ND<0.48
VS-12d3.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**2.1**	ND<0.10	ND<0.10
VS-12d5.0	11/3/10	ND<0.098	ND<0.098	ND<0.098	**1.1**	ND<0.098	ND<0.098
VS-13d1.0	11/3/10	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047	ND<0.0047
VS-13d3.0	11/3/10	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045	ND<0.0045
VS-13d5.0	11/3/10	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
VS-14d1.0	11/3/10	ND<0.0058	**0.020**	ND<0.0058	ND<0.0058	**0.0061**	**0.010**
VS-14d3.0	11/3/10	ND<0.10	ND<0.10	ND<0.10	**1.6**	ND<0.10	ND<0.10
VS-14d5.0	11/3/10	ND<0.049	ND<0.049	ND<0.049	**0.99**	ND<0.049	ND<0.049
D-1	5/30/07	ND<0.028	ND<0.028	ND<0.028	**0.58**	ND<0.028	ND<0.028
D-2	5/30/07	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054	ND<0.0054
D-3	5/31/07	ND<0.048	ND<0.048	ND<0.048	**0.87**	ND<0.048	ND<0.048
D-4	5/31/07	ND<0.019	**0.042**	ND<0.019	**0.16**	**0.026**	**0.026**
D-5	6/1/07	ND<1.9	ND<1.9	ND<1.9	**14**	ND<1.9	ND<1.9
D-6	6/1/07	ND<1.9	ND<1.9	ND<1.9	**18**	ND<1.9	ND<1.9
D-7	6/1/07	ND<0.010	ND<0.010	ND<0.010	**0.34**	ND<0.010	ND<0.010
D-8	6/1/07	ND<0.051	ND<0.051	ND<0.051	**0.86**	ND<0.051	ND<0.051
D-9	6/1/07	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046	ND<0.0046

Table 2 Notes:
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis 1,2 Dichloroethene
trans-1,2-DCE = cis 1,2 Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride

NS = not sampled
ND = Not detected above test reporting limit

Duplicate Sample Legend
D-1 = SB31d7.0
D-2 = SB10d5.0
D-3 = SB6d5.0
D-4 = SB14d1.0
D-5 = SB23d5.0
D-6 = SB29d3.0
D-7 = SB32d5.0
D-8 = SB36d1.0
D-9 = SB9d5.0

Table 2 Selected Volatile Organic Compounds - Monitoring Well Borings
A J Commercial
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MW-1d1.0	1/4/07	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND<0.12
MW-1d5.0	1/4/07	ND<0.018	ND<0.018	ND<0.018	ND<0.018	ND<0.018	ND<0.018
MW-2d1.0	1/4/07	ND<0.045	ND<0.045	ND<0.045	ND<0.045	ND<0.045	ND<0.045
MW-2d5.0	1/4/07	ND<0.095	ND<0.095	ND<0.095	ND<0.095	ND<0.095	ND<0.095
MW-3d1.0	1/4/07	ND<0.0057	ND<0.0057	ND<0.0057	**0.21**	ND<0.0057	ND<0.0057
MW-3d5.0	1/4/07	ND<0.0044	ND<0.0044	ND<0.0044	**0.16**	ND<0.0044	ND<0.0044
MW-4d1.0	1/8/07	ND<0.085	**5.8**	ND<0.085	**27**	**1.7**	ND<0.085
MW-4d3.0	1/8/07	ND<0.92	ND<0.92	ND<0.92	**42**	ND<0.92	ND<0.92
MW-4d5.0	1/8/07	ND<0.66	ND<0.66	ND<0.66	**17**	ND<0.66	ND<0.66
MW-5d3.0	1/8/07	ND<0.44	ND<0.44	ND<0.44	**19**	ND<0.44	ND<0.44
MW-5d5.0	1/8/07	ND<0.66	ND<0.66	ND<0.66	**29**	ND<0.66	ND<0.66
MW-6d1.0	1/4/07	ND<0.0079	ND<0.0079	ND<0.0079	**0.014**	ND<0.0079	ND<0.0079
MW-6d5.0	1/4/07	ND<0.0052	ND<0.0052	ND<0.0052	**0.021**	ND<0.0052	ND<0.0052
MW-21d1.0	5/4/10	ND<0.045	ND<0.045	ND<0.045	**0.49**	ND<0.045	ND<0.045
MW-21d3.0	5/4/10	ND<0.046	ND<0.046	ND<0.046	**1.5**	ND<0.046	ND<0.046
MW-21d5.0	5/4/10	ND<0.0090	ND<0.0090	ND<0.0090	**0.23**	ND<0.0090	ND<0.0090
MW-21d7.0	5/4/10	ND<0.022	ND<0.022	ND<0.022	**0.49**	ND<0.022	ND<0.022
D-1	1/4/07	ND<0.094	ND<0.094	ND<0.094	**2.5**	ND<0.094	ND<0.094
D-2	1/8/07	ND<0.98	ND<0.98	ND<0.98	**25**	ND<0.98	ND<0.98
MW-21d1.0Z	5/4/10	ND<0.017	ND<0.017	ND<0.017	**0.43**	ND<0.017	ND<0.017
MW-21d3.0Z	5/4/10	ND<0.048	ND<0.048	ND<0.048	**0.89**	ND<0.048	ND<0.048

Duplicate Sample Legend
D-1 = MW2d5.0
D-2 = MW5d5.0
MW-21d1.0Z = MW-21d1.0
MW-21d3.0Z = MW-21d3.0

Table 3 Reduction of PCE in Soil

A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

Sample ID	Date	PCE (mg/kg)	Sample ID	Date	PCE (mg/kg)	Percent Reduction	Sample is below PCE Target Conc. (0.37 mg/kg)
SB-1d1.0	5/31/07	**0.13**					X
SB-1d5.0	5/31/07	**0.16**					X
SB-2d1.0	5/31/07	**0.76**					
SB-2d5.0	5/31/07	**0.2**					X
SB-3d1.5	5/31/07	ND<0.0047					X
SB-3d3.5	5/31/07	ND<0.0049					X
SB-3d5.5	5/31/07	ND<0.0045					X
SB-4d1.0	5/31/07	**0.013**					X
SB-4d5.0	5/31/07	**0.014**					X
SB-5d1.0	5/31/07	**1.1**					
SB-5d5.0	5/31/07	**0.79**					
SB-6d1.0	5/31/07	**0.82**					
SB-6d5.0	5/31/07	**0.87**					
SB-7d1.0	5/31/07	**1.1**					
SB-7d5.0	5/31/07	**0.26**					X
SB-8d1.0	5/31/07	**0.82**					
SB-8d5.0	5/31/07	**0.76**					
SB-9d1.0	6/1/07	ND<0.0049					X
SB-9d5.0	6/1/07	ND<0.0046					X
SB-10d1.0	5/30/07	ND<0.0043					X
SB-10d5.0	5/30/07	ND<0.0059					X
SB-11d1.0	5/31/07	**0.24**					X
SB-11d5.0	5/31/07	**0.13**					X
SB-12d1.0	5/31/07	**0.48**					
SB-12d5.0	5/31/07	**0.73**					
SB-13d1.0	5/30/07	**0.55**					
SB-13d5.0	5/30/07	**0.037**					X
SB-14d1.0	5/31/07	**0.12**					X
SB-14d5.0	5/31/07	**0.039**					X
SB-15d1.0	6/1/07	ND<0.0045					X
SB-15d5.0	6/1/07	**0.0088**					X
SB-16d1.0	6/1/07	**0.028**					X
SB-16d5.0	6/1/07	ND<0.0052					X
SB-17d1.0	5/31/07	ND<0.020					X
SB-17d3.0	5/31/07	**0.21**					X
SB-17d5.0	5/31/07	**0.064**					X
SB-18d1.0	5/30/07	**0.011**	VS-8d1.0	11/3/10	0.0076	31%	X
SB-18d3.0	5/30/07	**5.3**	VS-8d3.0	11/3/10	1.8	66%	
SB-18d5.0	5/30/07	**2.3**	VS-8d5.0	11/3/10	3.0	-30%	
SB-19d1.0	5/30/07	**15**	VS-7d1.0	11/3/10	11	27%	
SB-19d3.0	5/30/07	**36**	VS-7d3.0	11/3/10	16	56%	
SB-19d5.0	5/30/07	**53**	VS-7d5.0	11/3/10	8.0	85%	
SB-19d7.0	5/30/07	**11**					

Table 3 Reduction of PCE in Soil

A J Commercial

1173-1175 Campbell Avenue, San Jose, California

Sample ID	Date	PCE (mg/kg)	Sample ID	Date	PCE (mg/kg)	Percent Reduction	Sample is below PCE Target Conc. (0.37 mg/kg)
SB-20d1.0	5/31/07	**0.91**	VS-14d1.0	11/3/10	<0.0058	100%	X
SB-20d3.0	5/31/07	**26**	VS-14d3.0	11/3/10	1.6	94%	
SB-20d5.0	5/31/07	**2.7**	VS-14d5.0	11/3/10	0.99	63%	
SB-21d1.0	6/1/07	ND<0.0054					X
SB-21d5.0	6/1/07	ND<0.0044					X
SB-22d1.0	6/1/07	**0.0079**					X
SB-22d5.0	6/1/07	**0.47**					
SB-23d1.0	6/1/07	**7.9**	VS-13d1.0	11/3/10	<0.0047	100%	X
SB-23d3.0	6/1/07	**17**	VS-13d3.0	11/3/10	<0.0045	100%	X
SB-23d5.0	6/1/07	**3.2**	VS-13d5.0	11/3/10	<0.005	100%	X
SB-23d7.0	6/1/07	**3.8**					
SB-24d3.0	5/30/07	**44**	VS-6d3.0	11/3/10	4.5	90%	
SB-24d5.0	5/30/07	**42**	VS-6d5.0	11/3/10	2.6	94%	
SB-24d7.0	5/30/07	**11**					
SB-25d3.0	5/30/07	**20**	VS-5d3.0	11/3/10	1.6	92%	
SB-25d5.0	5/30/07	**18**	VS-5d5.0	11/3/10	3.3	82%	
SB-25d7.0	5/30/07	**6.6**					
SB-26d1.0	6/1/07	**31**	VS-11d1.0	11/3/10	0.0054	100%	X
SB-26d3.0	6/1/07	**17**	VS-11d3.0	11/3/10	4.7	72%	
SB-26d5.0	6/1/07	**16**	VS-11d5.0	11/3/10	1.1	93%	
SB-26d7.0	6/1/07	**6.3**					
SB-27d1.5	5/30/07	ND<0.005					X
SB-27d5.5	5/30/07	**0.01**					X
SB-28d1.5	5/30/07	**0.22**					X
SB-28d5.5	5/30/07	**0.48**					
SB-29d1.0	6/1/07	**8.2**	VS-10d1.0	11/3/10	1.0	88%	
SB-29d3.0	6/1/07	**13**	VS-10d3.0	11/3/10	2.6	80%	
SB-29d5.0	6/1/07	**7.9**	VS-10d5.0	11/3/10	1.6	80%	
SB-29d7.0	6/1/07	**3.4**					
SB-30	NS	-					
SB-31d1.0	5/30/07	**4.7**	VS-2d1.0	11/3/10	0.046	99%	X
SB-31d3.0	5/30/07	**2.8**	VS-2d3.0	11/3/10	0.61	78%	
SB-31d5.0	5/30/07	**3.1**	VS-2d5.0	11/3/10	1.3	58%	
SB-31d7.0	5/30/07	**0.64**					
SB-32d3.0	6/1/07	**1.6**	VS-9d3.0	11/3/10	0.78	51%	
SB-32d5.0	6/1/07	**0.52**	VS-9d5.0	11/3/10	0.85	-63%	
SB-33d1.5	5/30/07	ND<0.0057					X
SB-33d5.5	5/30/07	**0.0084**					X
SB-34d1.0	6/1/07	**0.057**					X
SB-34d5.0	6/1/07	**0.044**					X
SB-35d1.0	6/1/07	**0.47**					X
SB-35d5.0	6/1/07	**0.4**					
SB-36d1.0	6/1/07	**1.2**	VS-1d1.0	11/3/10	0.24	80%	X
SB-36d5.0	6/1/07	**0.86**	VS-1d5.0	11/3/10	0.93	-8%	

Table 4 Selected Volatile Organic Compounds - Groundwater
A J Commercial
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE ug/L	cis-1,2-DCE ug/L	trans-1,2-DCE ug/L	PCE ug/L	TCE ug/L	VC ug/L
MW-1	1/12/07	ND<120	ND<120	ND<120	**3,200**	ND<120	ND<120
	3/6/08	ND<50	ND<50	ND<50	**4,100**	ND<50	ND<50
	5/13/10	ND<25	ND<25	ND<25	**1,200**	**94**	ND<25
	5/20/11	ND<50	ND<50	ND<50	**1,100**	**380**	ND<50
MW-2	1/12/07	ND<0.5	**0.78**	ND<0.5	**37**	ND<0.5	ND<0.5
	3/5/08	ND<5.0	ND<5.0	ND<5.0	**190**	ND<5.0	ND<5.0
	5/13/10	ND<5.0	ND<5.0	ND<5.0	**190**	ND<5.0	ND<5.0
	5/20/11	ND<5.0	ND<5.0	ND<5.0	**98**	ND<5.0	ND<5.0
MW-3	1/12/07	ND<50	**540**	ND<50	**3,400**	**110**	**220**
	3/6/08	ND<5.0	ND<5.0	ND<5.0	**370**	ND<5.0	ND<5.0
	5/13/10	ND<2.5	ND<2.5	ND<2.5	**130**	**6.9**	ND<2.5
	5/20/11	ND<5.0	ND<5.0	ND<5.0	**92**	ND<5.0	ND<5.0
MW-4	1/12/07	ND<100	**350**	ND<100	**5,700**	**110**	ND<100
	3/7/08	ND<250	**1,700**	ND<250	**15,000**	**340**	ND<250
	5/13/10	ND<500	**2,300**	ND<500	**21,000**	ND<500	ND<500
	7/22/10	ND<250	**1,200**	ND<250	**18,000**	**340**	ND<250
	9/29/10	ND<500	**1,400**	ND<500	**21,000**	ND<500	ND<500
	2/22/11	ND<17	**88**	ND<17	**1,100**	22	ND<17
	5/20/11	ND<100	**220**	ND<100	**4,000**	ND<100	ND<100
MW-5	1/12/07	ND<0.5	**0.78**	ND<0.5	**2.8**	ND<0.5	**7.7**
	3/7/08	ND<170	**270**	ND<170	**7,200**	ND<170	ND<170
	5/13/10	ND<5.0	**27**	ND<5.0	**270**	**7.6**	ND<5.0
	7/22/10	ND<2.5	**16**	ND<2.5	**110**	**6.0**	ND<2.5
	9/29/10	ND<5.0	**22**	ND<5.0	**110**	**6.2**	ND<5.0
	5/20/11	ND<5.0	**8.7**	ND<5.0	**78**	**5.4**	ND<5.0
MW-6	1/12/07	ND<250	ND<250	ND<250	**5,200**	ND<250	ND<250
	3/7/08	ND<0.5	**8.3**	ND<0.5	**30**	**1.6**	ND<0.5
	5/13/10	ND<0.5	ND<0.5	ND<0.5	**3.7**	ND<0.5	**0.90**
	5/20/11	ND<0.5	**0.92**	ND<0.5	**1.8**	ND<0.5	**7.40**
MW-7	3/6/08	ND<5.0	ND<5.0	ND<5.0	**370**	**19**	ND<5.0
	5/17/10	ND<5.0	ND<5.0	ND<5.0	**240**	**17**	ND<5.0
MW-8	3/6/08	ND<0.5	ND<0.5	ND<0.5	**7.7**	ND<0.5	ND<0.5
	5/17/10	ND<0.5	ND<0.5	ND<0.5	**3.6**	ND<0.5	ND<0.5
MW-9	3/6/08	ND<0.5	ND<0.5	ND<0.5	**14**	ND<0.5	ND<0.5
	5/17/10	ND<0.5	ND<0.5	ND<0.5	**6.6**	ND<0.5	ND<0.5
MW-10	3/6/08	ND<0.5	ND<0.5	ND<0.5	**9.1**	ND<0.5	ND<0.5
	5/17/10	ND<0.5	ND<0.5	ND<0.5	**3.2**	ND<0.5	ND<0.5
MW-11	3/6/08	ND<0.5	**5.4**	ND<0.5	**5.9**	**1.3**	ND<0.5
	5/12/10	ND<0.5	**11**	ND<0.5	**12**	**1.5**	ND<0.5

Table 4 Selected Volatile Organic Compounds - Groundwater

A J Commercial

1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12	3/6/08	ND<1.7	**28**	ND<1.7	**68**	**4.6**	ND<1.7
	5/12/10	ND<1.0	**22**	ND<1.0	**33**	**3.4**	ND<1.0
	5/20/11	ND<0.5	**5.5**	ND<0.5	**24**	**2.6**	ND<0.5
MW-13	3/6/08	ND<100	**3,500**	ND<100	ND<100	ND<100	ND<100
	5/12/10	ND<50	**3,100**	ND<50	ND<50	ND<50	**120**
MW-14	3/6/08	ND<50	**1,100**	**130**	ND<50	ND<50	ND<50
	5/12/10	ND<25	**990**	**99**	ND<25	ND<25	**27**
MW-15	3/6/08	ND<5.0	**160**	ND<5.0	**200**	ND<5.0	**34**
	5/17/10	ND<10	**340**	ND<10	**26**	ND<10	**29**
MW-16	3/7/08	ND<10	**100**	ND<10	**390**	ND<10	**26**
	5/12/10	ND<10	**72**	ND<10	**380**	**19**	ND<10
	5/20/11	ND<50	**170**	ND<50	**1,200**	ND<50	ND<50
MW-17	3/7/08	ND<5.0	**32**	ND<5.0	**150**	**7.4**	ND<5.0
	5/12/10	ND<5.0	**24**	ND<5.0	**150**	**12**	ND<5.0
	5/20/11	ND<0.5	**5.9**	ND<0.5	**26**	**4.9**	ND<0.5
MW-18	3/7/08	ND<2.5	**160**	**31**	**69**	**66**	**45**
	5/17/10	ND<0.5	**2.1**	ND<0.5	**11**	**1.1**	ND<0.5
MW-19	5/11/10	ND<0.5	**0.55**	ND<0.5	**8.1**	ND<0.5	ND<0.5
MW-20	5/11/10	ND<10	ND<10	ND<10	**250**	ND<10	ND<10
	5/20/11	ND<10	ND<10	ND<10	**170**	ND<10	ND<10
MW-21	5/11/10	ND<1.0	ND<1.0	ND<1.0	**41**	**1.0**	ND<1.0
MW-22	5/11/10	ND<0.5	ND<0.5	ND<0.5	**16**	ND<0.5	ND<0.5
MW-25	5/11/10	ND<100	**390**	ND<100	ND<100	ND<100	**230**
	5/20/11	ND<17	**31**	ND<17	ND<17	ND<17	**32**
MW-26	5/11/10	ND<25	**46**	ND<25	**1,500**	**80**	ND<25
	7/22/10	ND<5.0	**16**	ND<5.0	**150**	**15**	ND<5.0
	9/29/10	ND<5.0	**16**	ND<5.0	**80**	**21**	ND<5.0
	5/20/11	ND<0.5	**0.94**	ND<0.5	**19**	**2.1**	ND<0.5
MW-27	5/11/10	ND<5.0	**80**	ND<5.0	**130**	**17**	ND<5.0
	9/29/10	ND<1.2	**37**	**1.8**	**42**	**9.6**	ND<1.2
	5/20/11	ND<0.5	**5.7**	ND<0.5	**24**	**3.5**	ND<0.5
MW-28	5/11/10	ND<10	**23**	ND<10	**560**	**11**	ND<10
	9/29/10	ND<10	**28**	ND<10	**210**	ND<10	ND<10
	5/20/11	ND<5.0	**12**	ND<5.0	**320**	**6.1**	ND<5.0
MW-29	5/11/10	ND<50	ND<50	ND<50	**3,000**	ND<50	ND<50
	7/22/10	ND<50	**61**	ND<50	**1,200**	ND<50	ND<50
	9/29/10	ND<17	**120**	ND<17	**1,000**	ND<17	**18**

Table 4 Selected Volatile Organic Compounds - Groundwater

A J Commercial

1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	PCE	TCE	VC
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-29, cont.	5/20/11	ND<25	**120**	ND<25	**1,200**	ND<25	ND<25
MW-30	5/11/10	ND<100	**220**	ND<100	**4,100**	ND<100	ND<100
	9/29/10	ND<50	**410**	ND<50	**1,200**	ND<50	ND<50
	5/20/11	ND<25	**110**	ND<25	**1,600**	**27**	ND<25
MW-31	5/11/10	ND<10	**20**	ND<10	**470**	**12**	ND<10
	9/29/10	ND<10	ND<10	ND<10	**320**	**19**	ND<10
	5/20/11	ND<5.0	ND<5.0	ND<5.0	**150**	ND<50	ND<5.0
MW-32	5/11/10	ND<0.5	**25**	**0.78**	**21**	**0.77**	ND<0.5
MW-33	5/11/10	ND<10	ND<10	ND<10	**360**	ND<10	ND<10
	5/20/11	ND<10	ND<10	ND<10	**410**	**17**	ND<10
MW-37	5/17/10	ND<0.5	ND<0.5	ND<0.5	**1.6**	ND<0.5	ND<0.5
MW-38	5/17/10	ND<0.5	ND<0.5	ND<0.5	**0.88**	ND<0.5	ND<0.5
MW-39	5/17/10	ND<0.5	ND<0.5	ND<0.5	**20**	**0.62**	ND<0.5
MW-40	5/17/10	ND<0.5	ND<0.5	ND<0.5	**10**	ND<0.5	ND<0.5
MW-41	5/12/10	ND<2.5	**56**	ND<2.5	**67**	**18**	ND<2.5
MW-42	5/12/10	ND<2.5	**35**	ND<2.5	**55**	**11**	ND<2.5
MW-43	5/12/10	ND<1.7	**5.7**	ND<1.7	**50**	**3.2**	ND<1.7
D-1	3/7/08	ND<0.5	**7.7**	ND<0.5	**31**	**1.7**	ND<0.5
D-2	3/7/08	ND<170	**280**	ND<170	**6,000**	ND<170	ND<170
TB	3/7/08	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
E-1	3/7/08	ND<0.5	**2.0**	ND<0.5	**1.3**	**0.55**	ND<0.5
TB-1	5/12/10	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
D-1	5/17/10	ND<5.0	ND<5.0	ND<5.0	**220**	**17**	ND<5.0
D-2	5/17/10	ND<0.5	ND<0.5	ND<0.5	**5.4**	ND<0.5	ND<0.5
D-3	5/17/10	ND<0.5	ND<0.5	ND<0.5	**21**	ND<0.5	ND<0.5
D-4	5/17/10	ND<0.5	ND<0.5	ND<0.5	**3.2**	ND<0.5	ND<0.5
EB-1	5/17/10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Table 4 Notes:

1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis 1,2 Dichloroethene
trans-1,2-DCE = cis 1,2 Dichloroethene
PCE = Tetrachloroethene
TCE = Trichloroethene
VC = Vinyl Chloride

NS = not sampled
ND = Not detected above test reporting limit

Duplicate Sample Legend

Sample date 3/7/08
D-1 = MW-6
D-2 = MW-5
Sample date 5/17/10
D-1 = MW-7
D-2 = MW-9
D-3 = MW-39
D-4 = MW-10

E-1 = equipment rinsate sample
EB-1 = equipment rinsate sample

Table 5 Reduction of PCE in Groundwater

A J Commercial

1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	PCE ug/L	Sampling Date	PCE ug/L	Percent Reduction		
MW-1	1/12/07	**3,200**	5/20/11	**1,100**	**66%**		
MW-2	5/13/10	**190**	5/20/11	**98**	**48%**		
MW-3	1/12/07	**3,400**	5/20/11	**92**	**97%**		
MW-4	9/29/10	**21,000**	5/20/11	**4,000**	**81%**		
MW-5	3/7/08	**7,200**	5/20/11	**78**	**99%**		
MW-6	1/12/07	**5,200**	5/20/11	**1.8**	**100%**		
MW-7	3/6/08	**370**	5/17/10	**240**	**35%**		
MW-8	3/6/08	**7.7**	5/17/10	**3.6**	**53%**		
MW-9	3/6/08	**14**	5/17/10	**6.6**	**53%**		
MW-10	3/6/08	**9.1**	5/17/10	**3.2**	**65%**		
MW-11	3/6/08	**12**	5/12/10	**5.9**	**51%**		
MW-12	3/7/08	**68**	5/20/11	**24**	**65%**		
MW-13	3/6/08	**<100**	5/12/10	**<50**	**-**		
MW-14	3/6/08	**<50**	5/12/10	**<25**	**-**		
MW-15	12/12/09	**550**	5/17/10	**26**	**95%**		
MW-16	3/7/08	**390**	5/20/11	**1,200**	**-208%**		
MW-17	5/12/10	**150**	5/20/11	**26**	**83%**		
MW-18	3/7/08	**69**	5/17/10	**11**	**84%**		
MW-20	5/11/10	**250**	5/20/11	**170**	**32%**		
MW-25	5/11/10	**ND<100**	5/20/11	**ND<17**	**-**		
MW-26	5/11/10	**1,500**	5/20/11	**19**	**99%**		
MW-27	5/11/10	**130**	5/20/11	**24**	**82%**		
MW-28	5/11/10	**560**	5/20/11	**320**	**43%**		
MW-29	5/11/10	**3000**	5/20/11	**1200**	**60%**		
MW-30	5/11/10	**4,100**	5/20/11	**1600**	**61%**		
MW-31	5/11/10	**470**	5/20/11	**150**	**68%**		
MW-33	5/11/10	**360**	5/20/11	**410**	**-14%**		

Table 5 Notes:

PCE = Tetrachloroethene

Percent reduction = highest value reported in groundwater compared to most recent sample result.

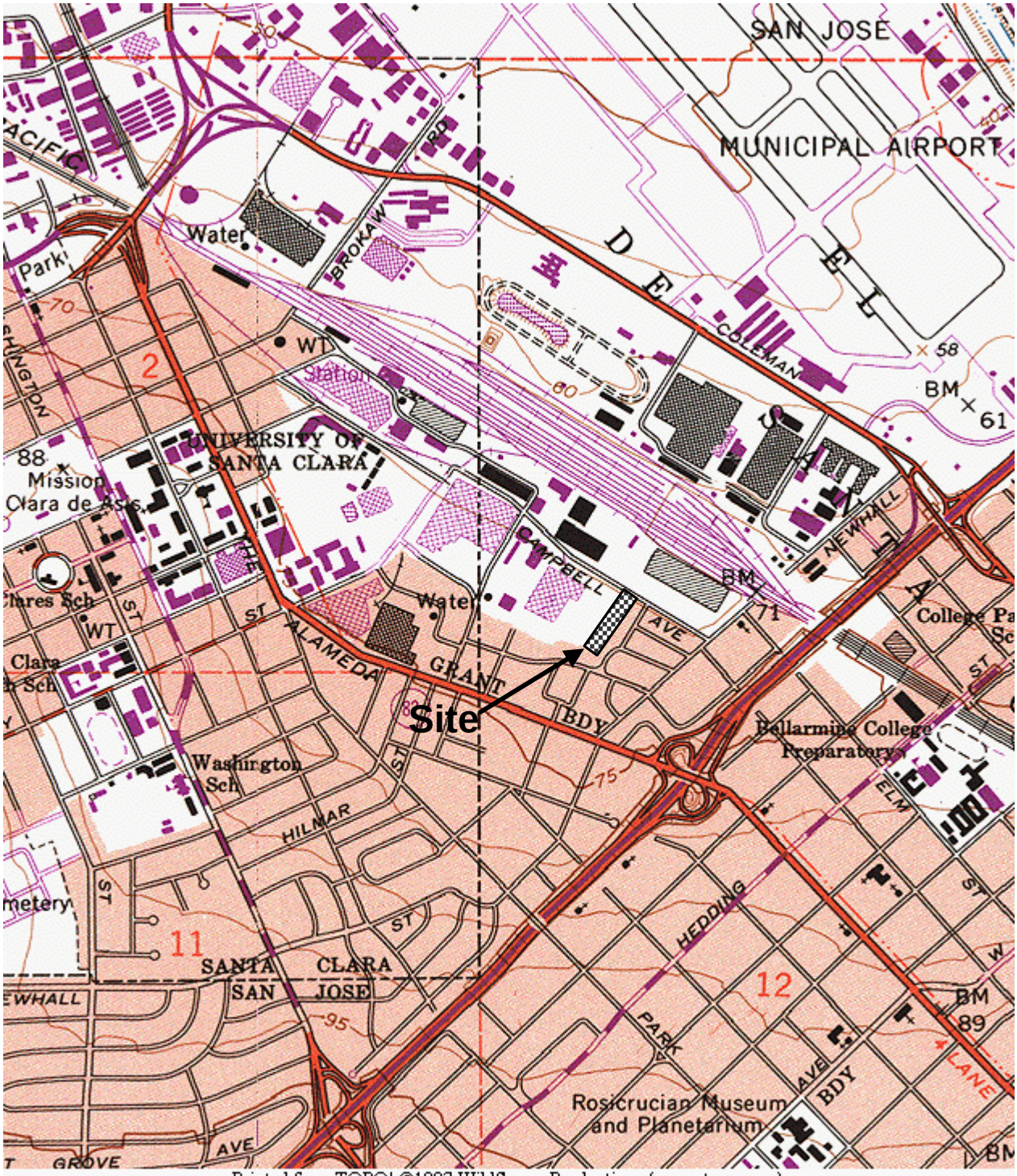
Table 6 PCE in Indoor Air
AJ Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

Sample ID	Sampling Date	PCE ($\mu g/m^3$)				
1A	3/11/08	3.2				
1B	3/11/08	4.2				
2A	3/11/08	1.2				
2B	3/11/08	1.2				
3A	3/11/08	18				
	2/21/10	23				
3B	3/11/08	52				
3C	3/11/08	240				
	12/02/09*	350				
	1/31/10	690				
	2/21/10	120				
3D	3/11/08	20				
	2/21/10	2.0				
AJL-Cont	3/11/08	0.55				
BG-1	2/21/10	ND<0.69				

Notes:

Samples AJL-Cont and BG-1 are ambient air samples
* Sample ID mistakenly labeled as 3B on COC and laboratory report
PCE tetrachloroethene
$\mu g/m^3$ micrograms per cubic meter

FIGURES



N

Scale: 1:12,000

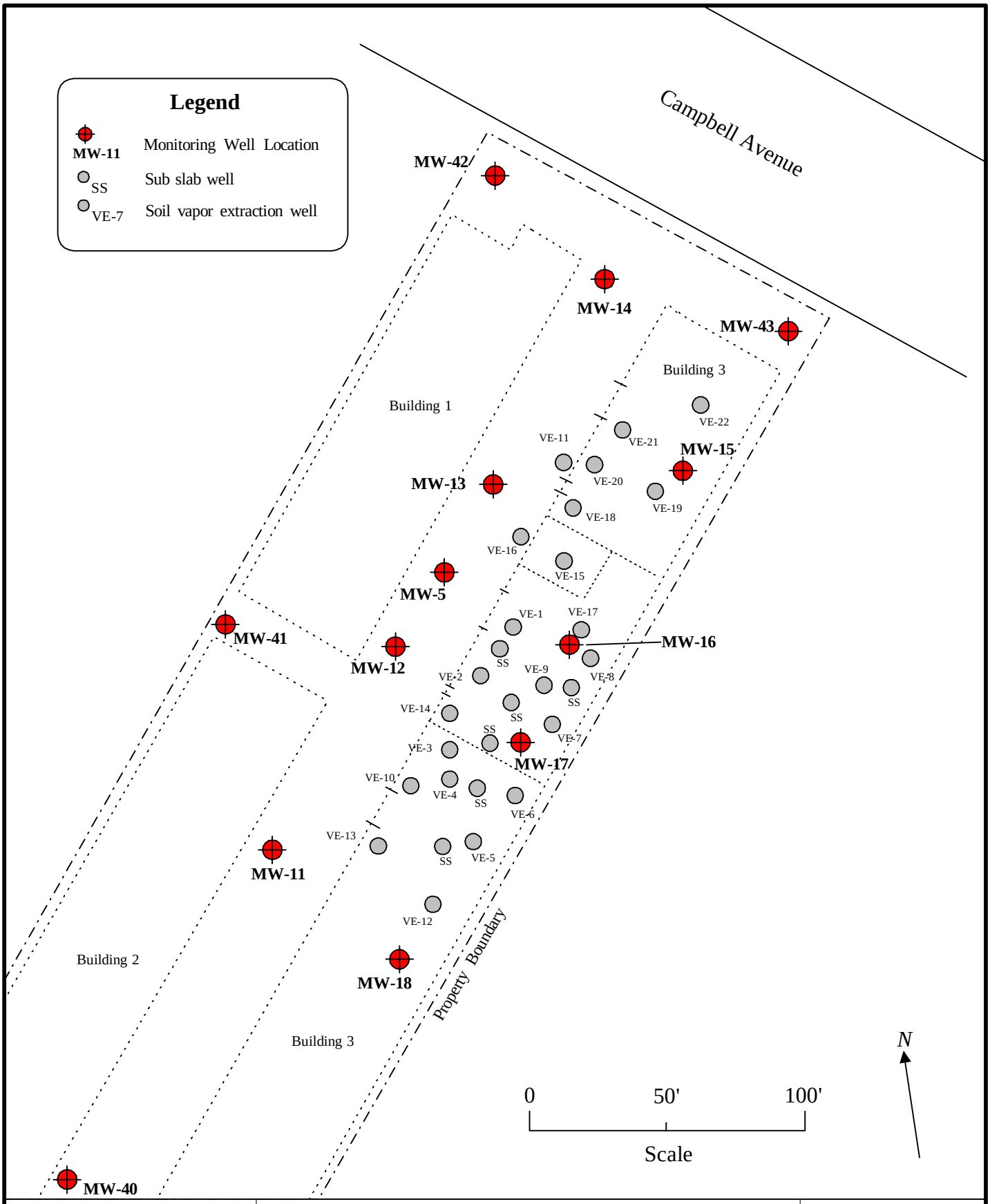
GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Topographic Location Map** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue San Jose, California	**FIGURE** **1**

GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Aerial Photo** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue, San Jose, California	**FIGURE** **2**

N

Scale: 1" = 188'

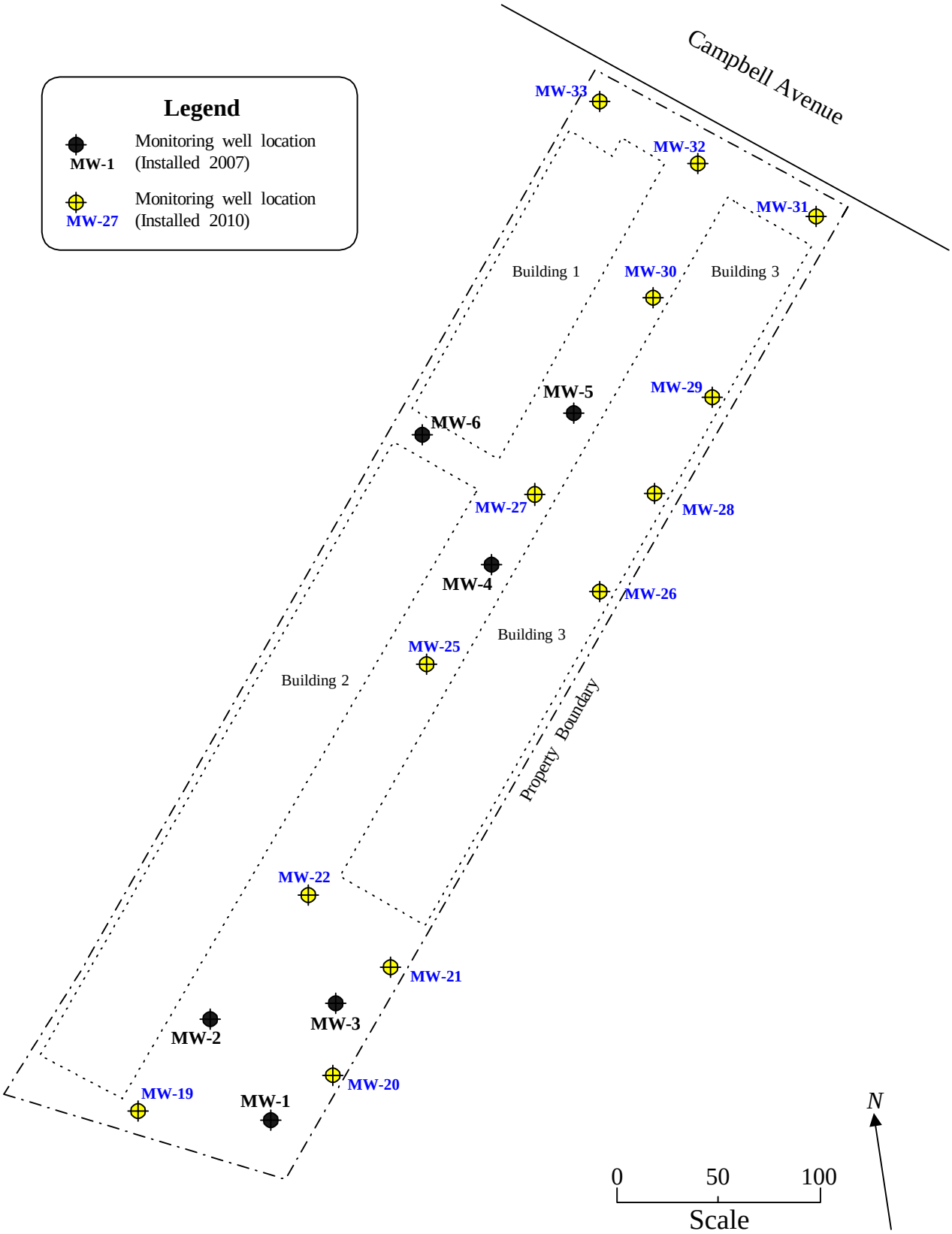
GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Vicinity Map** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue San Jose, California	**FIGURE** **3**



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Location Map for Soil and Sub Slap Vapor Extraction Wells
Former A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

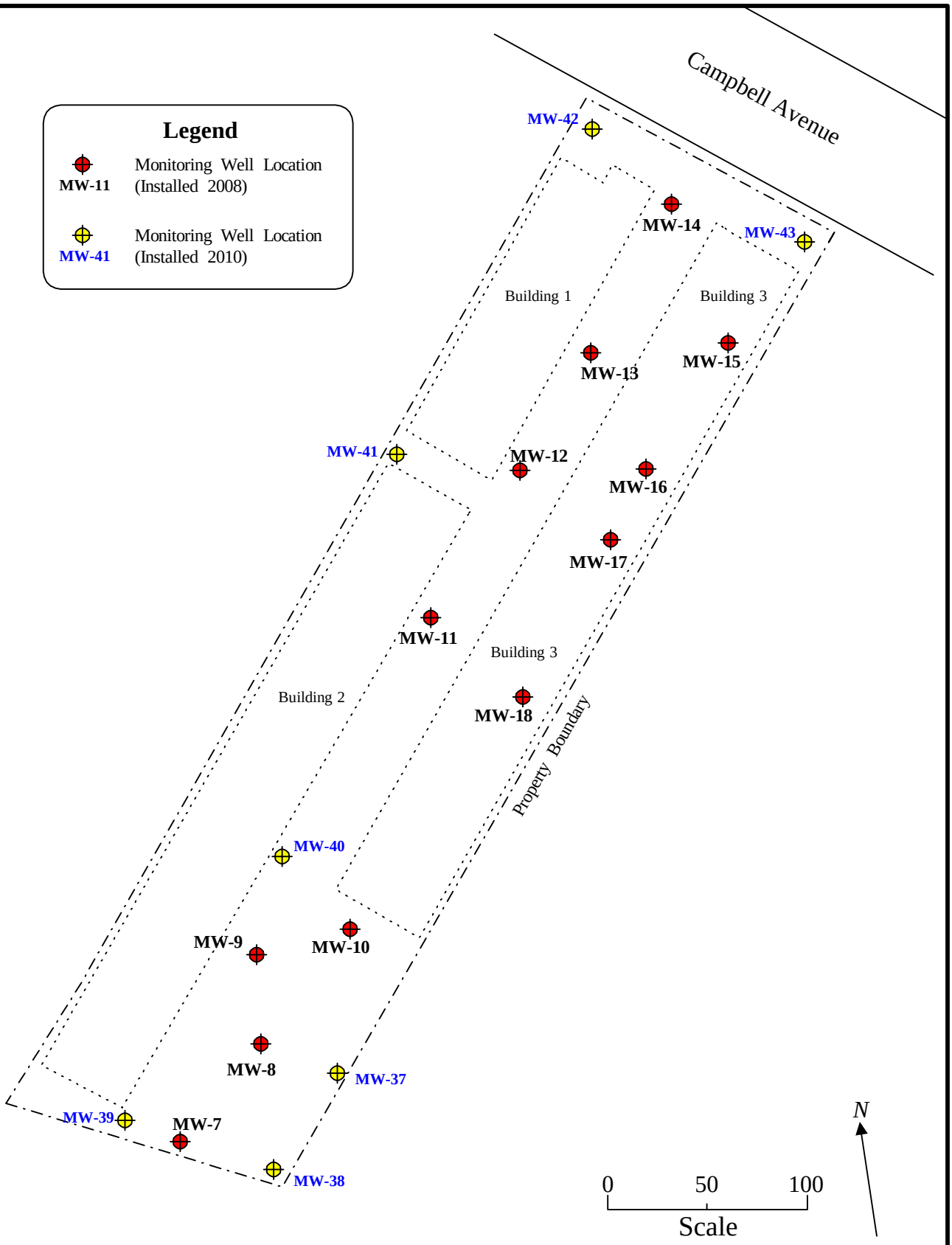
FIGURE 4a



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Location Map for 17-20' Total Depth Wells
Former A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

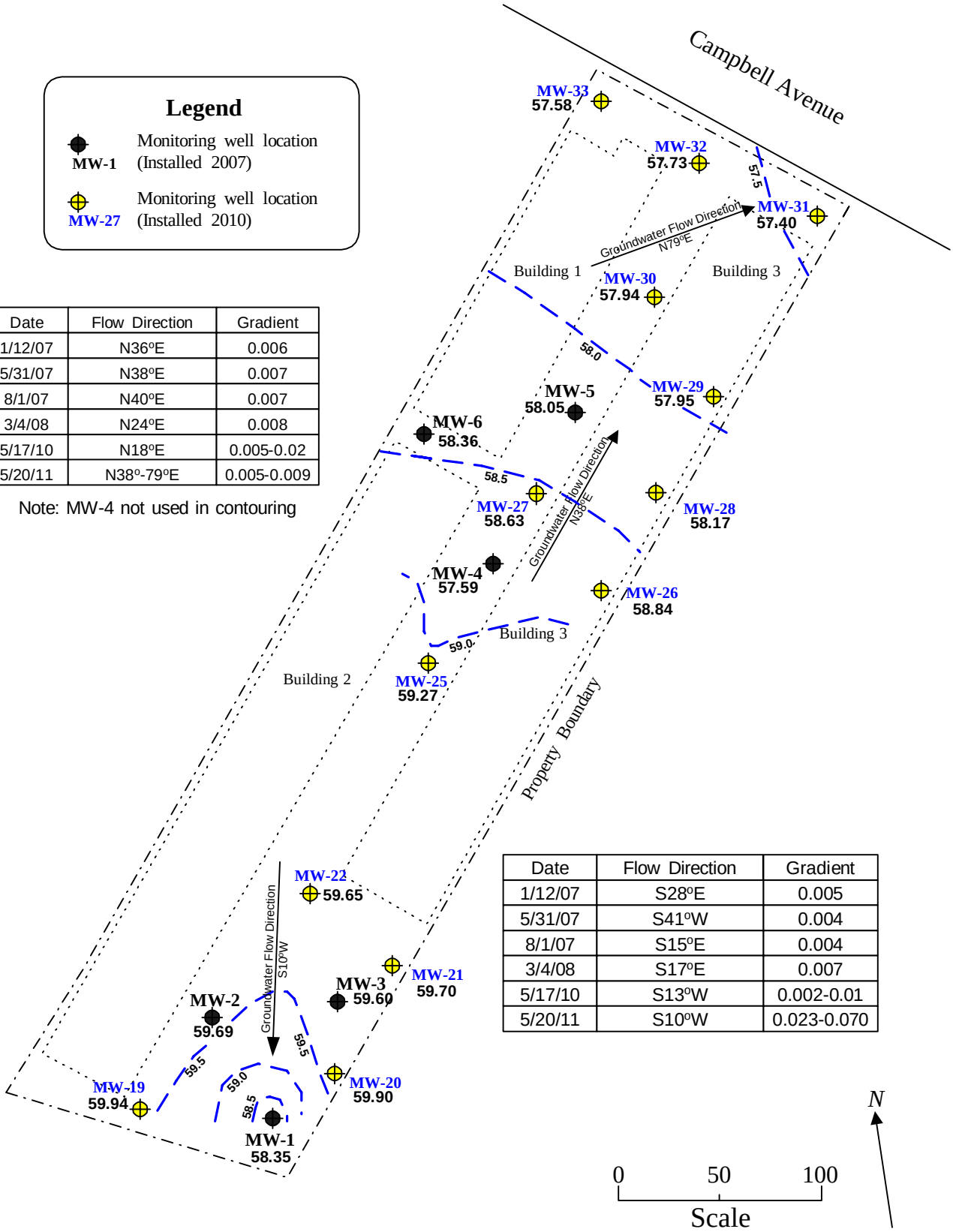
FIGURE
4b



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Location Map for 30' Total Depth Wells
Former A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

FIGURE
4c



Date	Flow Direction	Gradient
1/12/07	N36°E	0.006
5/31/07	N38°E	0.007
8/1/07	N40°E	0.007
3/4/08	N24°E	0.008
5/17/10	N18°E	0.005-0.02
5/20/11	N38°-79°E	0.005-0.009

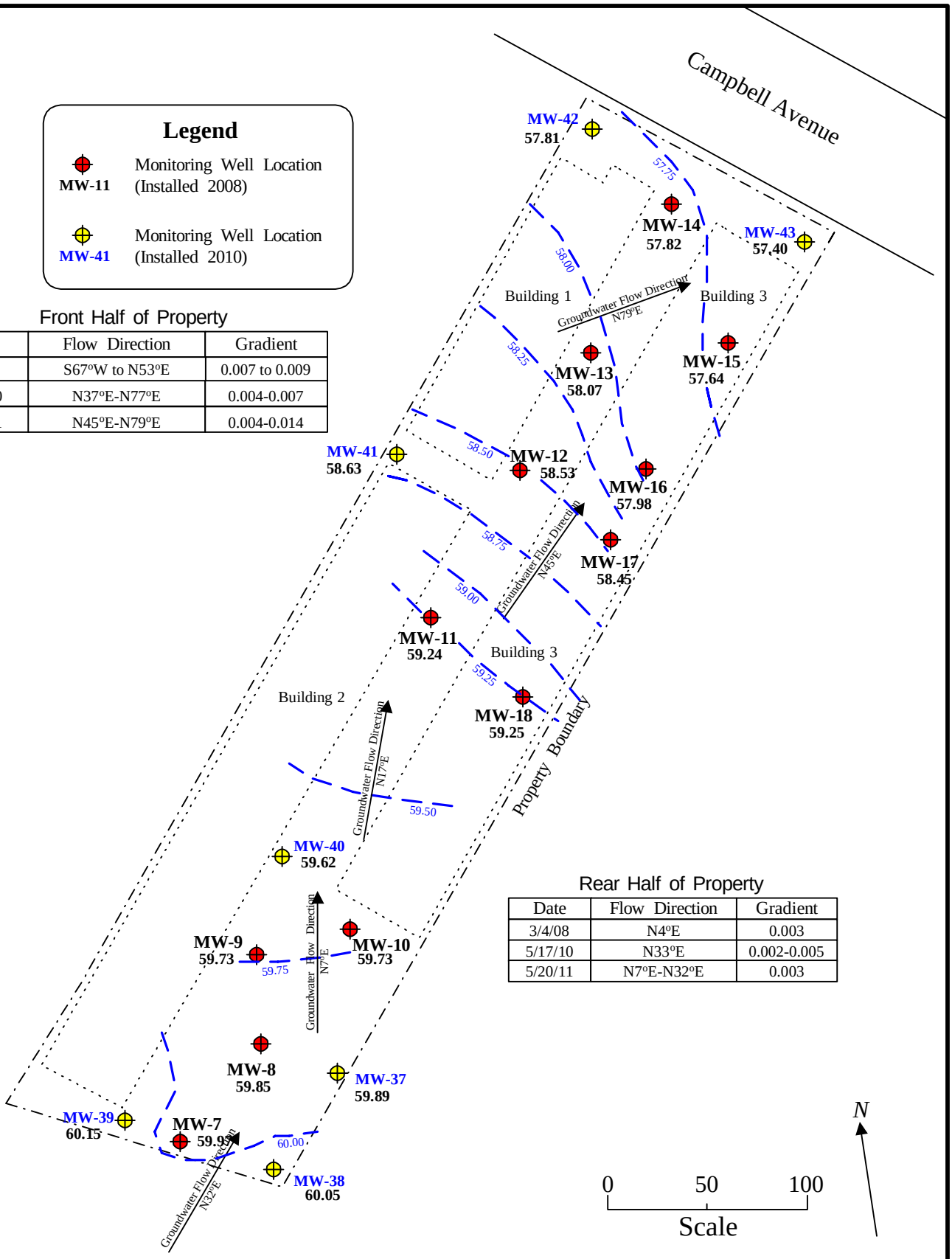
Note: MW-4 not used in contouring

Date	Flow Direction	Gradient
1/12/07	S28°E	0.005
5/31/07	S41°W	0.004
8/1/07	S15°E	0.004
3/4/08	S17°E	0.007
5/17/10	S13°W	0.002-0.01
5/20/11	S10°W	0.023-0.070

GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater Elevation Map (5/20/11)
Wells <20' TD
A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

FIGURE
5a



Front Half of Property

Date	Flow Direction	Gradient
3/4/08	S67°W to N53°E	0.007 to 0.009
5/17/10	N37°E-N77°E	0.004-0.007
5/20/11	N45°E-N79°E	0.004-0.014

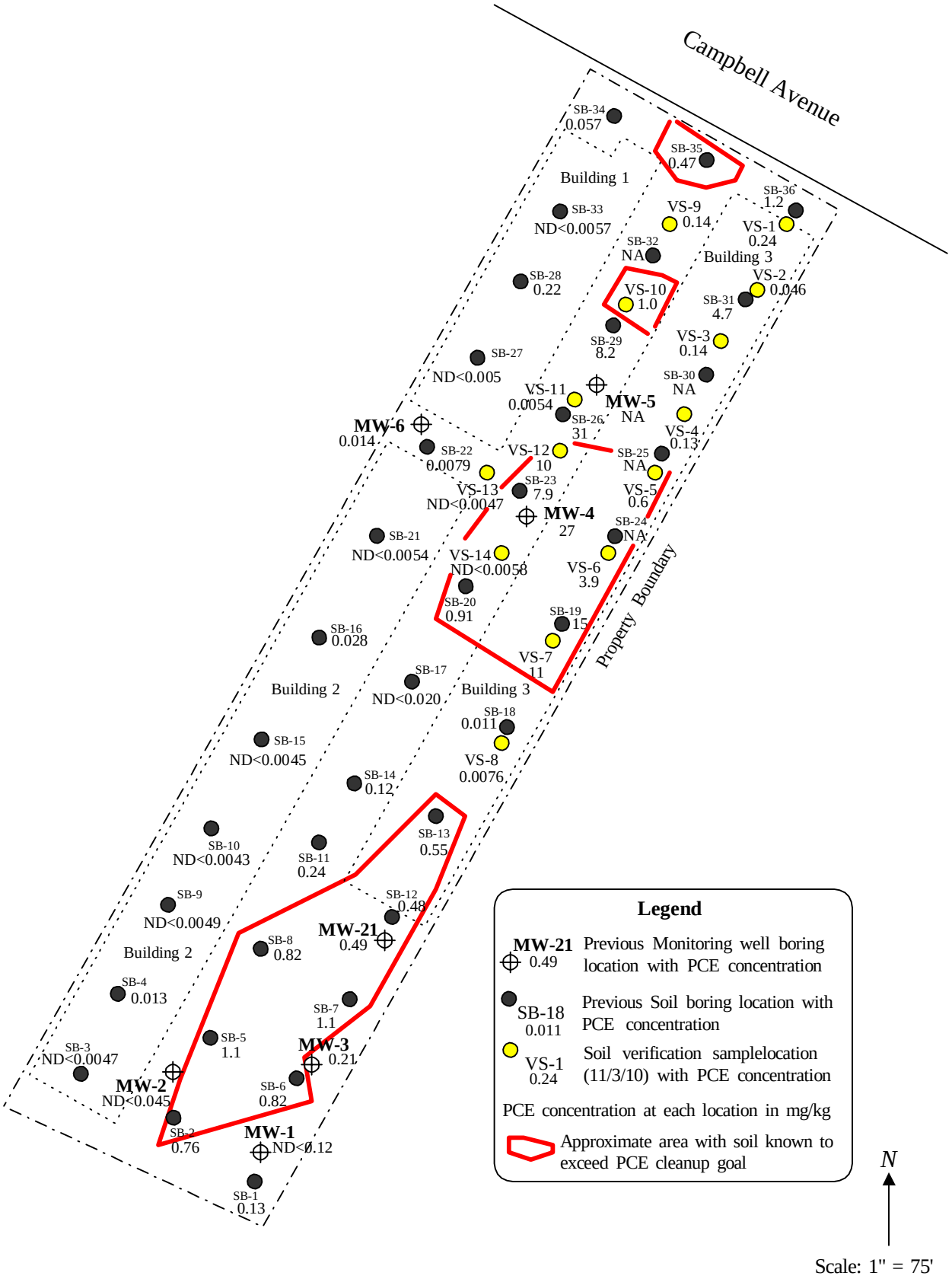
Rear Half of Property

Date	Flow Direction	Gradient
3/4/08	N4°E	0.003
5/17/10	N33°E	0.002-0.005
5/20/11	N7°E-N32°E	0.003

GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater Elevation Map (5/20/11)
Wells 30' TD
A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

FIGURE
5b



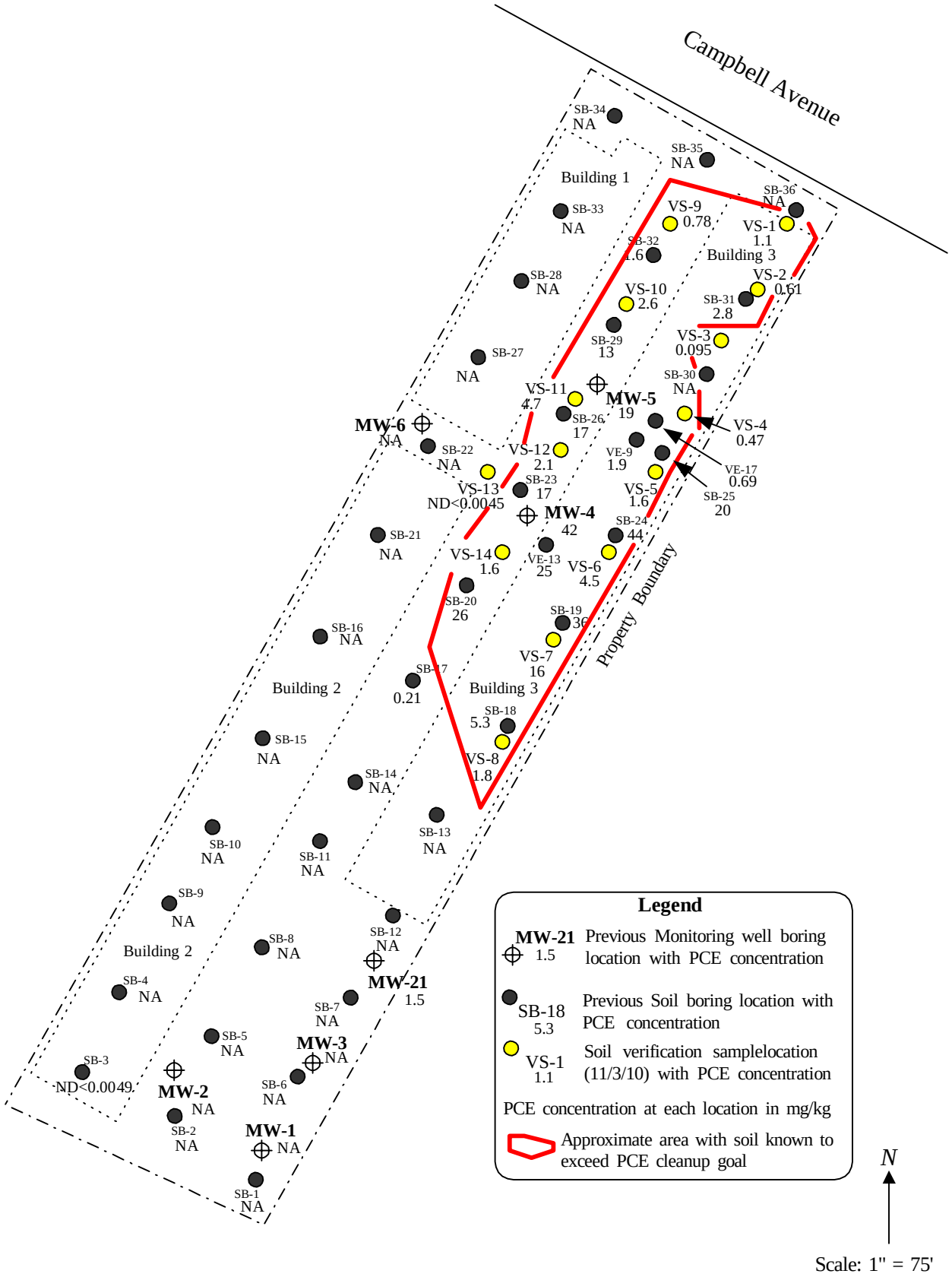
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

PCE Soil Concentration Map Depth 1.0-1.5'

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

FIGURE 6a



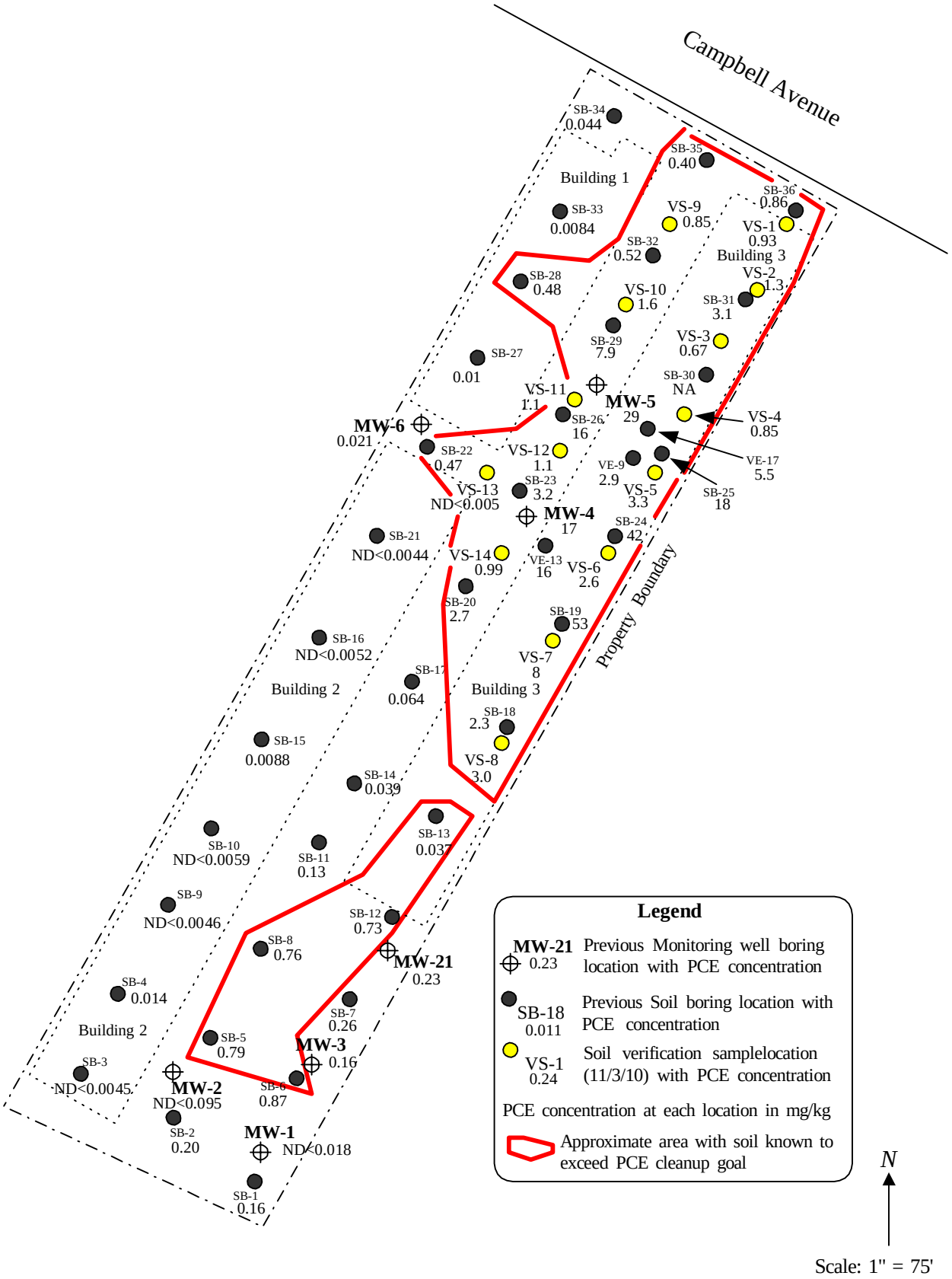
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

PCE Soil Concentration Map Depth 3.0-3.5'

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

FIGURE
6b



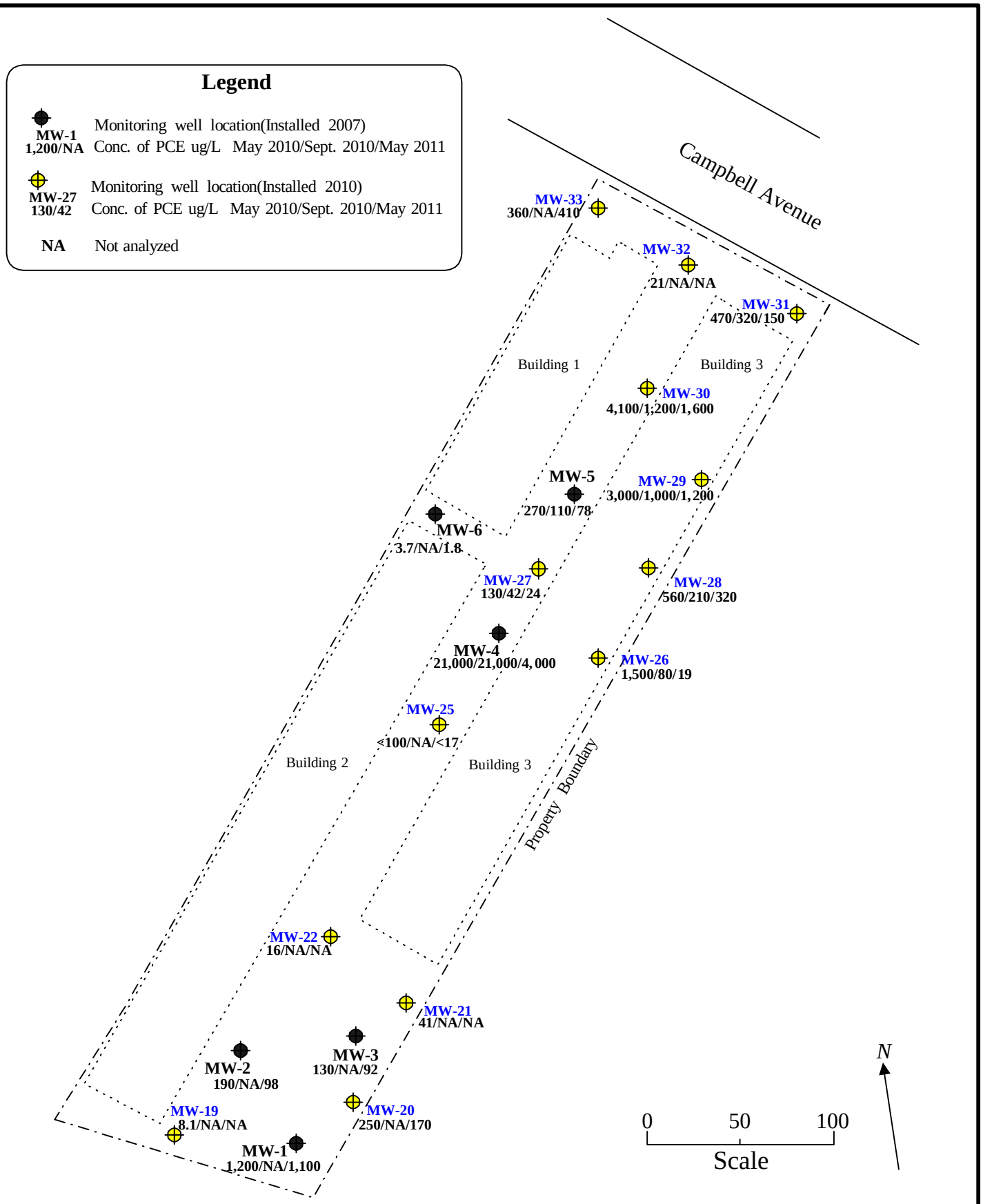
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

PCE Soil Concentration Map Depth 5.0-5.5'

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

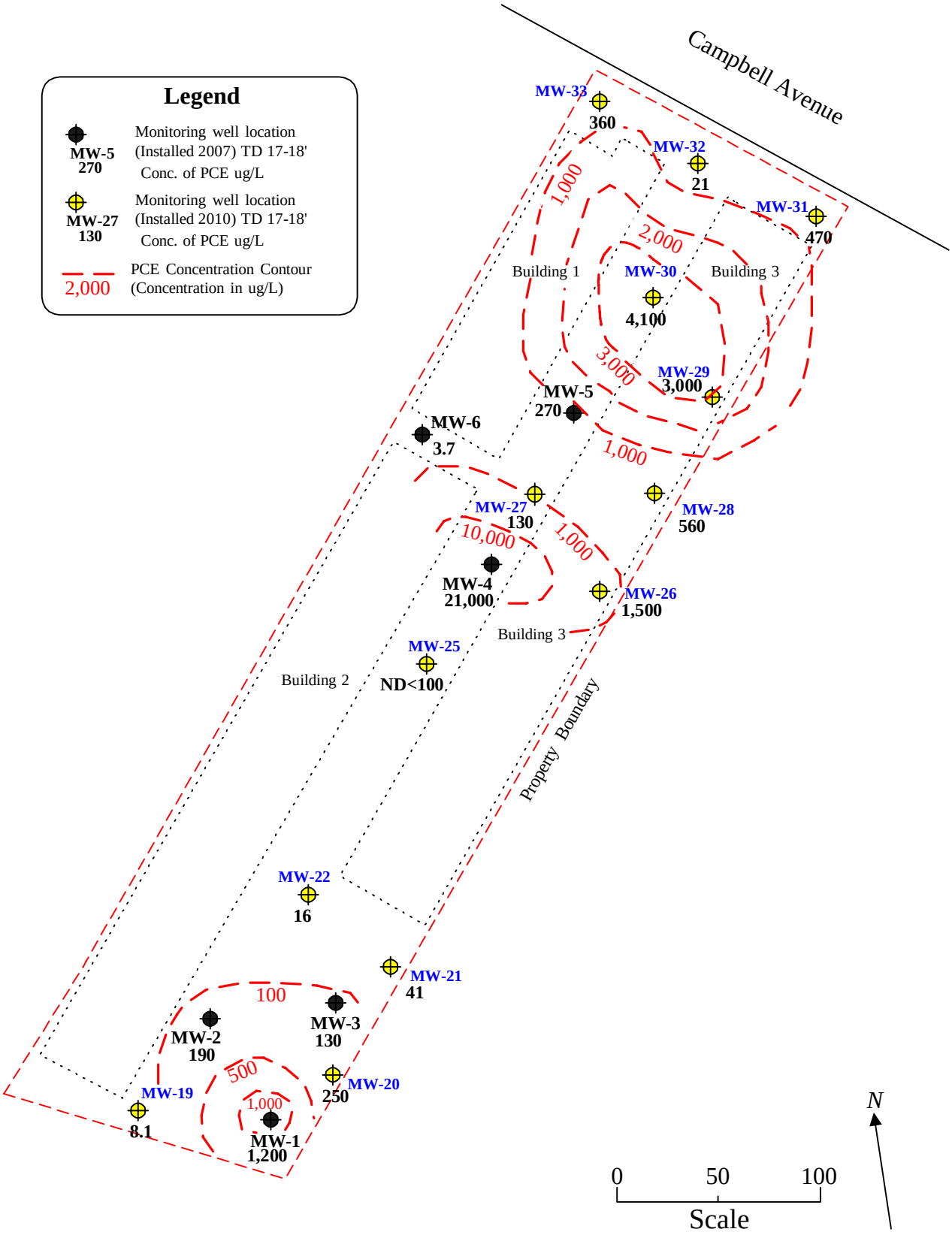
FIGURE 6c



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater PCE Concentration Map for Wells with Total Depths of 17-20'
Former A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

FIGURE 7



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater PCE Concentration Contour Map

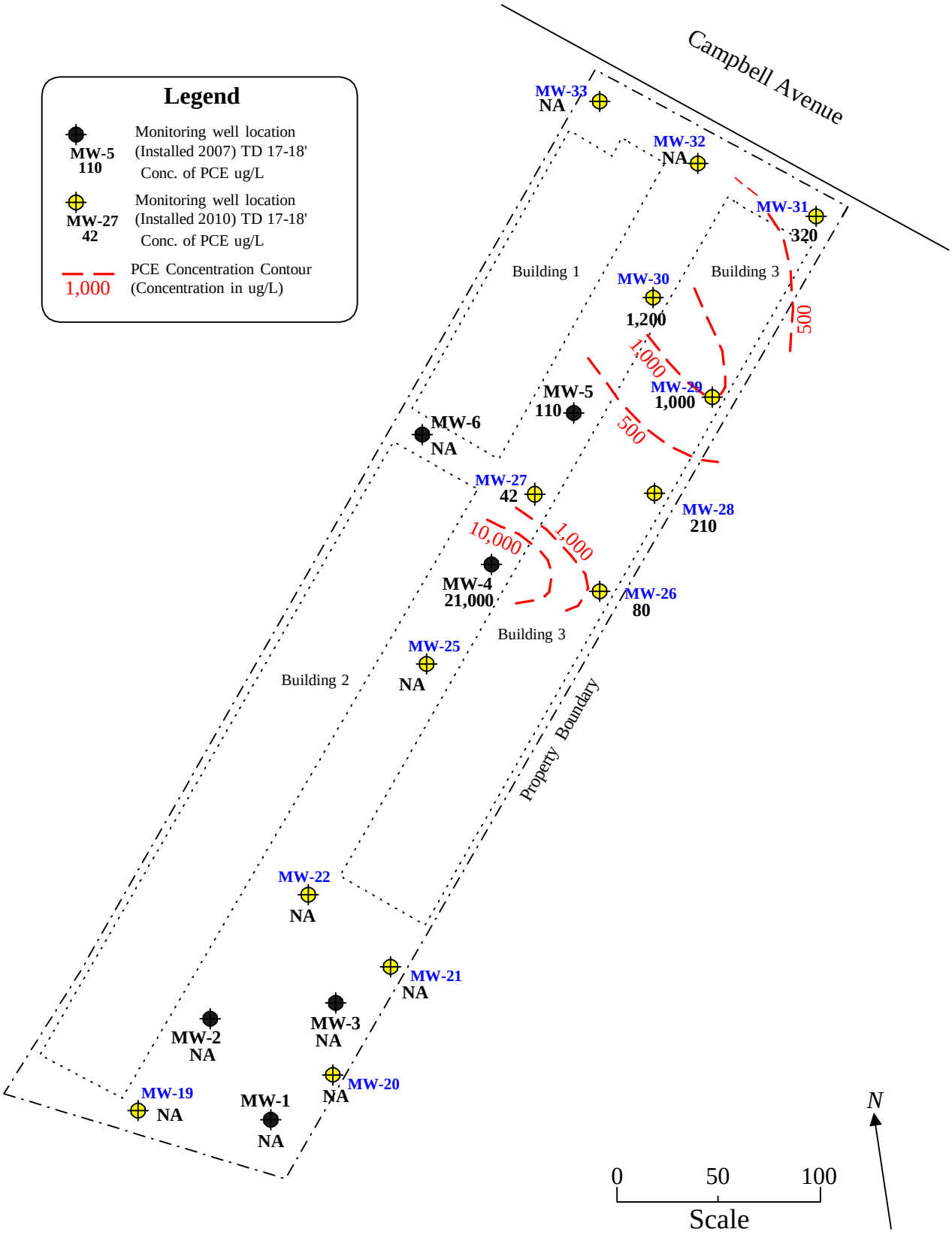
(Depth 17-20', May 2010 Sampling)

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

FIGURE

8a



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater PCE Concentration Contour Map

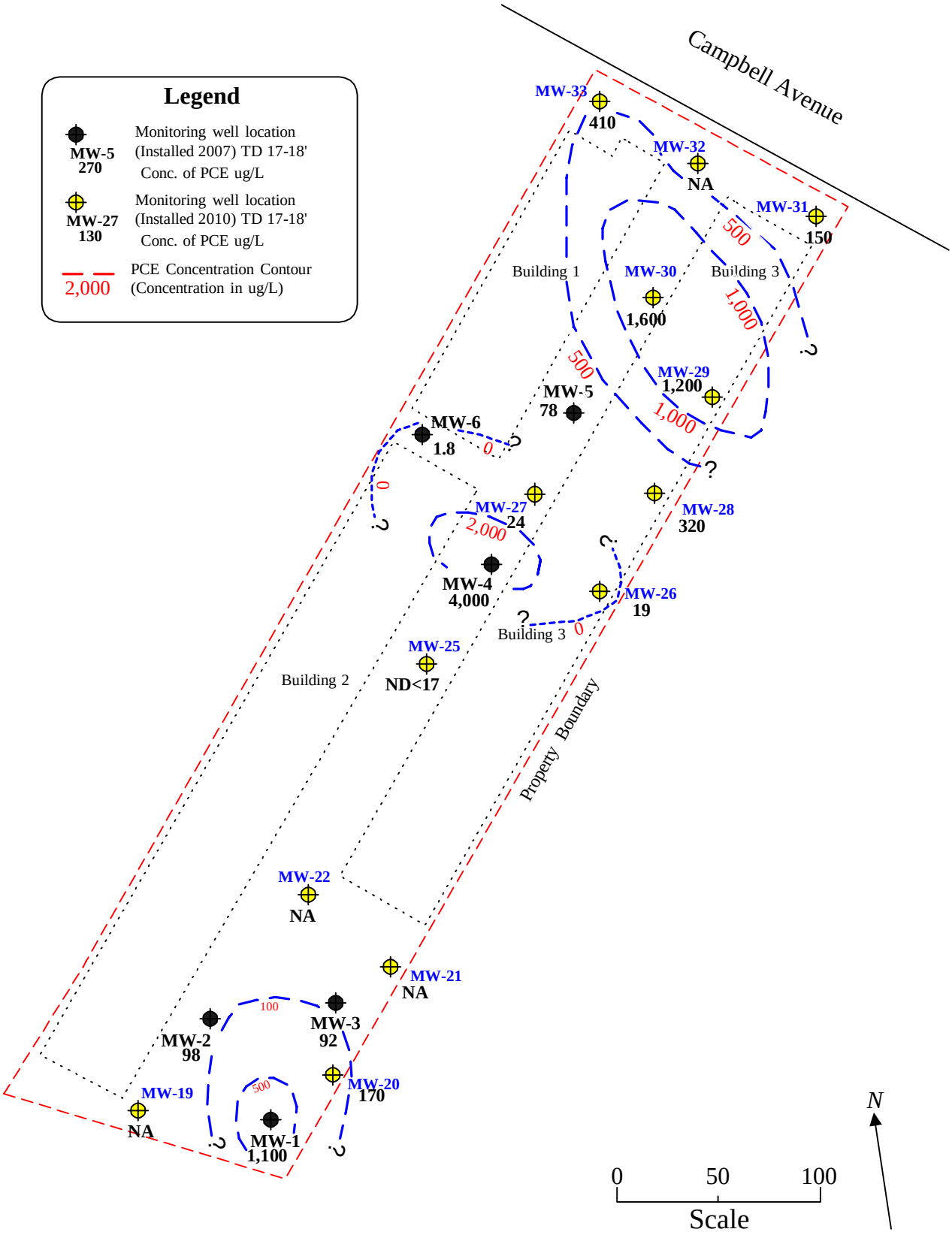
(Depth 17-20', September 2010 Sampling)

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

FIGURE

8b



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater PCE Concentration Contour Map

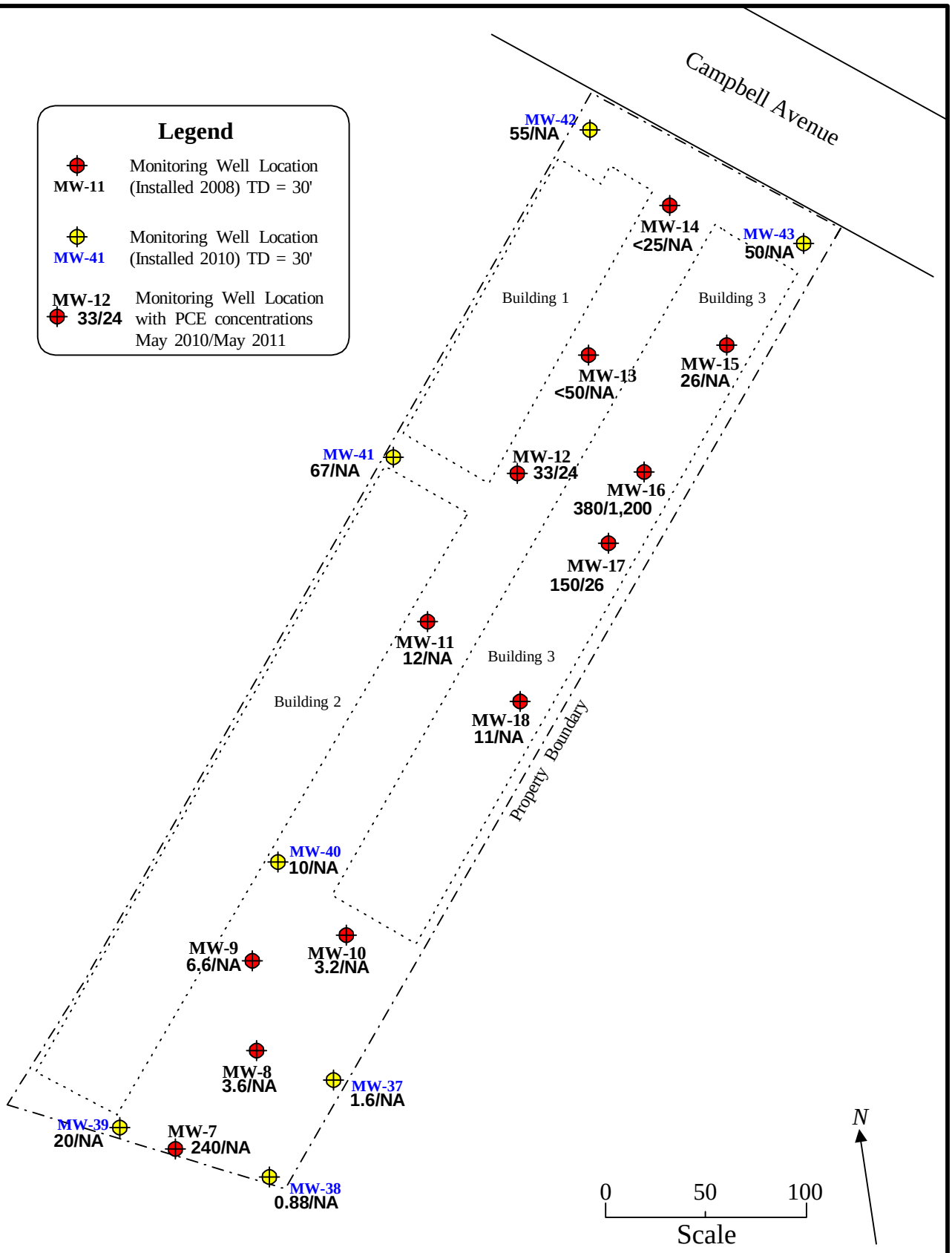
(Depth 17-20', May 2011 Sampling)

Former A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

FIGURE

8c



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Groundwater PCE Concentration Map

(Depth 30', May 2010/May 2011 Sampling)
Former A J Commercial Laundry
1173-1175 Campbell Avenue, San Jose, California

FIGURE
9

APPENDICES

APPENDIX A

Certified Analytical Reports

Groundwater Verification Sampling (5/20/11)

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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
15940 Concord Circle		Date Received: 05/23/11
	Client Contact: Roger Dockter	Date Reported: 05/31/11
Morgan Hill, CA 95037	Client P.O.:	Date Completed: 05/31/11

WorkOrder: 1105676

May 31, 2011

Dear Roger:

Enclosed within are:

1) The results of the **22** analyzed samples from your project: **#0543; AJ Commercial Laundry/Lindsell Property,**
2) A QC report for the above samples,
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.

1105676

GeoRestoration, Inc.

15940 Concord Circle, Suite 100
Morgan Hill, CA 95037
Main Line: (408) 779-5533
Facsimile: (408) 779-5530

CHAIN OF CUSTODY FORM

Turnaround Time: (working days) __ 10 day __ 3 day __ Same day __ 7 day __ 2 day __ other __ 5 day __ 1 day (_____)

Project Name: AJ Commercial Laundry/Lindsell Property
Project Number: 0543 Task: _____
Global I.D.:
Project Address: 1173-1175 Campbell Ave., San Jose, CA
Laboratory: McCampbell Analytical Contact: Rosa
Lab Address/Phone: 1535 Willow Pass Road, Pittsburg, CA (877) 252-9262
Project Manager: Roger Dockter
PM Phone Number: (408) 857-0648 Email: main@georestoration.com
Sampler: Jim Phone: (408) 779-5533

Sample Information						Container Information			Comments	Analyses Requested
Sample ID	Date	Time	Matrix: Soil	Matrix: Water	Matrix: Vapor	No.	Type	Preservative		VOCs (8260)
MW-1	5/20/11	1500		✓		2	V	HCL, C		✓
MW-2		1240		✓		2	V	HCL, C		✓
MW-3		1155		✓		2	V	HCL, C		✓
MW-4		1430		✓		2	V	HCL, C		✓
MW-5		1135		✓		2	V	HCL, C		✓
MW-6		1000		✓		2	V	HCL, C		✓
MW-12		1020		✓		2	V	HCL, C		✓
MW-16		1400		✓		2	V	HCL, C		✓
MW-17		1215		✓		2	V	HCL, C		✓
MW-20		1310		✓		2	V	HCL, C		✓
MW-25		1115		✓		2	V	HCL, C		✓
MW-26		1100		✓		2	V	HCL, C		✓
MW-27		1040		✓		2	V	HCL, C		✓
MW-28		1255		✓		2	V	HCL, C		✓
MW-29		1415		✓		2	V	HCL, C		✓
MW-30		1445		✓		2	V	HCL, C		✓
MW-31		1330		✓		2	V	HCL, C		✓
MW-33		1345		✓		2	V	HCL, C		✓

Additional Comments: Invoice to GeoRestoration, Inc. and send report to main@georestoration.com

Geotracker EDF:

Relinquished By: [signature] Date/Time: 5/23/11 1435 Received By: [signature] Date/Time: 5/23/11 1435
Relinquished By: [signature] Date/Time: 5/23 1612 Received By: [signature] Date/Time: 5/23/1612
Relinquished By: Date/Time: Received By: Date/Time:

Sample Condition: Good? Yes ___ No ___ Refrigerated ? Yes ___ No ___ Cooler Temp 9.8 Transportation Method: _____ Page ___ of ___

Container Type: V = 40 ml vial, L = 1 liter amber bottle, 500 ml = 500 milliliter bottle, T = tube (B - brass, S - stailess steel, P - plastic) **Preservative:** HCL = Hydrochloric acid, N = Nitric acid, C = 4o C

FORM 1C

GeoRestoration, Inc.

15940 Concord Circle, Suite 100
Morgan Hill, CA 95037
Main Line: (408) 779-5533
Facsimile: (408) 779-5530

CHAIN OF CUSTODY FORM

Turnaround Time: (working days) __ 10 day __ 3 day __ Same day __ 7 day __ 2 day __ other __ 5 day __ 1 day (_____)

Project Name: AJ Commercial Laundry/Lindsell Property
Project Number: 0543 Task: _____
Global I.D.:
Project Address: 1173-1175 Campbell Ave., San Jose, CA
Laboratory: McCampbell Analytical Contact: Rosa
Lab Address/Phone: 1535 Willow Pass Road, Pittsburg, CA (877) 252-9262
Project Manager: Roger Dockter
PM Phone Number: (408) 857-0648 Email: main@georestoration.com
Sampler: Jim Phone: (408) 779-5533

Sample Information						Container Information			Comments	Analyses Requested
			Matrix							
Sample ID	Date	Time	Soil	Water	Vapor	No.	Type	Preservative		VOCs (8260)
DUP-1				✓		2	V	HCL, C		✓
DUP-2				✓		2	V	HCL, C		✓
Trip Blank				✓		2	V	HCL, C		✓
Equipment Blank	5/20/11	1515		✓		2	V	HCL, C		✓

Additional Comments: Invoice to GeoRestoration, Inc. and send report to main@georestoration.com

Geotracker EDF:

Relinquished By:	Date/Time: 5/23/11 1435	Received By:	Date/Time: 5/23/11 1435
Relinquished By:	Date/Time: 5/23/11 1812	Received By:	Date/Time: 5/23/11 1812
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition: Good? Yes ___ No ___ Refrigerated ? Yes ___ No ___ Cooler Temp _____ Transportation Method: _____ Page ___ of ___

Container Type: V = 40 ml vial, L = 1 liter amber bottle, 500 ml = 500 milliliter bottle, T = tube (B - brass, S - stailess steel, P - plastic) **Preservative:** HCL = Hydrochloric acid, N = Nitric acid, C = 4o C

FORM 1C

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1105676 **ClientCode: GEOS**

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

Report to:
Roger Dockter
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037
408-292-8450 FAX 408-295-8451

Email: main@georestoration.com
cc:
PO:
ProjectNo: #0543; AJ Commercial Laundry/Lindsell Property

Bill to:
Accounts Payable
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037

Requested TAT: 5 days

Date Received: 05/23/2011
Date Printed: 05/23/2011

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
1105676-001	MW-1	Water	5/20/2011 15:00	☐	A											
1105676-002	MW-2	Water	5/20/2011 12:40	☐	A											
1105676-003	MW-3	Water	5/20/2011 11:55	☐	A											
1105676-004	MW-4	Water	5/20/2011 14:30	☐	A											
1105676-005	MW-5	Water	5/20/2011 11:35	☐	A											
1105676-006	MW-6	Water	5/20/2011 10:00	☐	A											
1105676-007	MW-12	Water	5/20/2011 10:20	☐	A											
1105676-008	MW-16	Water	5/20/2011 14:00	☐	A											
1105676-009	MW-17	Water	5/20/2011 12:15	☐	A											
1105676-010	MW-20	Water	5/20/2011 13:10	☐	A											
1105676-011	MW-25	Water	5/20/2011 11:15	☐	A											
1105676-012	MW-26	Water	5/20/2011 11:00	☐	A											
1105676-013	MW-27	Water	5/20/2011 10:40	☐	A											
1105676-014	MW-28	Water	5/20/2011 12:55	☐	A											

Test Legend:

1	8260B_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1105676 **ClientCode: GEOS**

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

Report to:
Roger Dockter
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037
408-292-8450 FAX 408-295-8451

Email: main@georestoration.com
cc:
PO:
ProjectNo: #0543; AJ Commercial Laundry/Lindsell Property

Bill to:
Accounts Payable
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037

Requested TAT: 5 days

Date Received: 05/23/2011
Date Printed: 05/23/2011

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
1105676-015	MW-29	Water	5/20/2011 14:15	☐	A											
1105676-016	MW-30	Water	5/20/2011 14:45	☐	A											
1105676-017	MW-31	Water	5/20/2011 13:30	☐	A											
1105676-018	MW-33	Water	5/20/2011 13:45	☐	A											
1105676-019	DUP-1	Water	5/20/2011	☐	A											
1105676-020	DUP-2	Water	5/20/2011	☐	A											
1105676-021	Trip Blank	Water	5/20/2011	☐	A											
1105676-022	Equipment Blank	Water	5/20/2011 15:15	☐	A											

Test Legend:

1	8260B_W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments:

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: **GeoRestoration, Inc.**

Date and Time Received: **5/23/2011 7:44:15 PM**

Project Name: **#0543; AJ Commercial Laundry/Lindsell Property**

Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **1105676** Matrix Water

Carrier: Benjamin Yslas (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: 9.8°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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-001A						
Client ID	MW-1						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<200	100	2.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	Chloroform	ND<50	100	0.5
Chloromethane	ND<50	100	0.5	2-Chlorotoluene	ND<50	100	0.5
4-Chlorotoluene	ND<50	100	0.5	Dibromochloromethane	ND<50	100	0.5
1,2-Dibromo-3-chloropropane	ND<20	100	0.2	1,2-Dibromoethane (EDB)	ND<50	100	0.5
Dibromomethane	ND<50	100	0.5	1,2-Dichlorobenzene	ND<50	100	0.5
1,3-Dichlorobenzene	ND<50	100	0.5	1,4-Dichlorobenzene	ND<50	100	0.5
Dichlorodifluoromethane	ND<50	100	0.5	1,1-Dichloroethane	ND<50	100	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5	1,1-Dichloroethene	ND<50	100	0.5
cis-1,2-Dichloroethene	ND<50	100	0.5	trans-1,2-Dichloroethene	ND<50	100	0.5
1,2-Dichloropropane	ND<50	100	0.5	1,3-Dichloropropane	ND<50	100	0.5
2,2-Dichloropropane	ND<50	100	0.5	1,1-Dichloropropene	ND<50	100	0.5
cis-1,3-Dichloropropene	ND<50	100	0.5	trans-1,3-Dichloropropene	ND<50	100	0.5
Diisopropyl ether (DIPE)	ND<50	100	0.5	Ethylbenzene	ND<50	100	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5	Freon 113	ND<1000	100	10
Hexachlorobutadiene	ND<50	100	0.5	Hexachloroethane	ND<50	100	0.5
2-Hexanone	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	ND<50	100	0.5
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5
Naphthalene	ND<50	100	0.5	n-Propyl benzene	ND<50	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	1100	100	0.5
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	380	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	ND<50	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5
Vinyl Chloride	ND<50	100	0.5	Xylenes, Total	ND<50	100	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	94
%SS3:	101		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-002A						
Client ID	MW-2						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	98	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes, Total	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	93
%SS3:	103		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-003A
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	92	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes, Total	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	94
%SS3:	105		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-004A						
Client ID	MW-4						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2000	200	10	tert-Amyl methyl ether (TAME)	ND<100	200	0.5
Benzene	ND<100	200	0.5	Bromobenzene	ND<100	200	0.5
Bromochloromethane	ND<100	200	0.5	Bromodichloromethane	ND<100	200	0.5
Bromoform	ND<100	200	0.5	Bromomethane	ND<100	200	0.5
2-Butanone (MEK)	ND<400	200	2.0	t-Butyl alcohol (TBA)	ND<400	200	2.0
n-Butyl benzene	ND<100	200	0.5	sec-Butyl benzene	ND<100	200	0.5
tert-Butyl benzene	ND<100	200	0.5	Carbon Disulfide	ND<100	200	0.5
Carbon Tetrachloride	ND<100	200	0.5	Chlorobenzene	ND<100	200	0.5
Chloroethane	ND<100	200	0.5	Chloroform	ND<100	200	0.5
Chloromethane	ND<100	200	0.5	2-Chlorotoluene	ND<100	200	0.5
4-Chlorotoluene	ND<100	200	0.5	Dibromochloromethane	ND<100	200	0.5
1,2-Dibromo-3-chloropropane	ND<40	200	0.2	1,2-Dibromoethane (EDB)	ND<100	200	0.5
Dibromomethane	ND<100	200	0.5	1,2-Dichlorobenzene	ND<100	200	0.5
1,3-Dichlorobenzene	ND<100	200	0.5	1,4-Dichlorobenzene	ND<100	200	0.5
Dichlorodifluoromethane	ND<100	200	0.5	1,1-Dichloroethane	ND<100	200	0.5
1,2-Dichloroethane (1,2-DCA)	ND<100	200	0.5	1,1-Dichloroethene	ND<100	200	0.5
cis-1,2-Dichloroethene	220	200	0.5	trans-1,2-Dichloroethene	ND<100	200	0.5
1,2-Dichloropropane	ND<100	200	0.5	1,3-Dichloropropane	ND<100	200	0.5
2,2-Dichloropropane	ND<100	200	0.5	1,1-Dichloropropene	ND<100	200	0.5
cis-1,3-Dichloropropene	ND<100	200	0.5	trans-1,3-Dichloropropene	ND<100	200	0.5
Diisopropyl ether (DIPE)	ND<100	200	0.5	Ethylbenzene	ND<100	200	0.5
Ethyl tert-butyl ether (ETBE)	ND<100	200	0.5	Freon 113	ND<2000	200	10
Hexachlorobutadiene	ND<100	200	0.5	Hexachloroethane	ND<100	200	0.5
2-Hexanone	ND<100	200	0.5	Isopropylbenzene	ND<100	200	0.5
4-Isopropyl toluene	ND<100	200	0.5	Methyl-t-butyl ether (MTBE)	ND<100	200	0.5
Methylene chloride	ND<100	200	0.5	4-Methyl-2-pentanone (MIBK)	ND<100	200	0.5
Naphthalene	ND<100	200	0.5	n-Propyl benzene	ND<100	200	0.5
Styrene	ND<100	200	0.5	1,1,1,2-Tetrachloroethane	ND<100	200	0.5
1,1,2,2-Tetrachloroethane	ND<100	200	0.5	Tetrachloroethene	4000	200	0.5
Toluene	ND<100	200	0.5	1,2,3-Trichlorobenzene	ND<100	200	0.5
1,2,4-Trichlorobenzene	ND<100	200	0.5	1,1,1-Trichloroethane	ND<100	200	0.5
1,1,2-Trichloroethane	ND<100	200	0.5	Trichloroethene	ND<100	200	0.5
Trichlorofluoromethane	ND<100	200	0.5	1,2,3-Trichloropropane	ND<100	200	0.5
1,2,4-Trimethylbenzene	ND<100	200	0.5	1,3,5-Trimethylbenzene	ND<100	200	0.5
Vinyl Chloride	ND<100	200	0.5	Xylenes, Total	ND<100	200	0.5

Surrogate Recoveries (%)

%SS1:	86	%SS2:	95
%SS3:	104		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-005A
Client ID	MW-5
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	8.7	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	78	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	5.4	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes, Total	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	93
%SS3:	103		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/24/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/24/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-006A
Client ID	MW-6
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	12	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	0.92	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	1.8	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	7.4	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	93
%SS3:	102		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/25/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/25/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-007A						
Client ID	MW-12						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	3.4	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	5.5	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	24	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	2.6	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	92
%SS3:	103		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-008A						
Client ID	MW-16						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	100	10	tert-Amyl methyl ether (TAME)	ND<50	100	0.5
Benzene	ND<50	100	0.5	Bromobenzene	ND<50	100	0.5
Bromochloromethane	ND<50	100	0.5	Bromodichloromethane	ND<50	100	0.5
Bromoform	ND<50	100	0.5	Bromomethane	ND<50	100	0.5
2-Butanone (MEK)	ND<200	100	2.0	t-Butyl alcohol (TBA)	ND<200	100	2.0
n-Butyl benzene	ND<50	100	0.5	sec-Butyl benzene	ND<50	100	0.5
tert-Butyl benzene	ND<50	100	0.5	Carbon Disulfide	ND<50	100	0.5
Carbon Tetrachloride	ND<50	100	0.5	Chlorobenzene	ND<50	100	0.5
Chloroethane	ND<50	100	0.5	Chloroform	ND<50	100	0.5
Chloromethane	ND<50	100	0.5	2-Chlorotoluene	ND<50	100	0.5
4-Chlorotoluene	ND<50	100	0.5	Dibromochloromethane	ND<50	100	0.5
1,2-Dibromo-3-chloropropane	ND<20	100	0.2	1,2-Dibromoethane (EDB)	ND<50	100	0.5
Dibromomethane	ND<50	100	0.5	1,2-Dichlorobenzene	ND<50	100	0.5
1,3-Dichlorobenzene	ND<50	100	0.5	1,4-Dichlorobenzene	ND<50	100	0.5
Dichlorodifluoromethane	ND<50	100	0.5	1,1-Dichloroethane	ND<50	100	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	100	0.5	1,1-Dichloroethene	ND<50	100	0.5
cis-1,2-Dichloroethene	170	100	0.5	trans-1,2-Dichloroethene	ND<50	100	0.5
1,2-Dichloropropane	ND<50	100	0.5	1,3-Dichloropropane	ND<50	100	0.5
2,2-Dichloropropane	ND<50	100	0.5	1,1-Dichloropropene	ND<50	100	0.5
cis-1,3-Dichloropropene	ND<50	100	0.5	trans-1,3-Dichloropropene	ND<50	100	0.5
Diisopropyl ether (DIPE)	ND<50	100	0.5	Ethylbenzene	ND<50	100	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	100	0.5	Freon 113	ND<1000	100	10
Hexachlorobutadiene	ND<50	100	0.5	Hexachloroethane	ND<50	100	0.5
2-Hexanone	ND<50	100	0.5	Isopropylbenzene	ND<50	100	0.5
4-Isopropyl toluene	ND<50	100	0.5	Methyl-t-butyl ether (MTBE)	ND<50	100	0.5
Methylene chloride	ND<50	100	0.5	4-Methyl-2-pentanone (MIBK)	ND<50	100	0.5
Naphthalene	ND<50	100	0.5	n-Propyl benzene	ND<50	100	0.5
Styrene	ND<50	100	0.5	1,1,1,2-Tetrachloroethane	ND<50	100	0.5
1,1,2,2-Tetrachloroethane	ND<50	100	0.5	Tetrachloroethene	1200	100	0.5
Toluene	ND<50	100	0.5	1,2,3-Trichlorobenzene	ND<50	100	0.5
1,2,4-Trichlorobenzene	ND<50	100	0.5	1,1,1-Trichloroethane	ND<50	100	0.5
1,1,2-Trichloroethane	ND<50	100	0.5	Trichloroethene	ND<50	100	0.5
Trichlorofluoromethane	ND<50	100	0.5	1,2,3-Trichloropropane	ND<50	100	0.5
1,2,4-Trimethylbenzene	ND<50	100	0.5	1,3,5-Trimethylbenzene	ND<50	100	0.5
Vinyl Chloride	ND<50	100	0.5	Xylenes, Total	ND<50	100	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	92
%SS3:	100		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
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15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/25/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/25/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-009A						
Client ID	MW-17						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	1.0	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	5.9	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	26	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	4.9	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	92
%SS3:	100		

Comments:

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

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15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/26/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/26/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-010A						
Client ID	MW-20						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<200	20	10	tert-Amyl methyl ether (TAME)	ND<10	20	0.5
Benzene	ND<10	20	0.5	Bromobenzene	ND<10	20	0.5
Bromochloromethane	ND<10	20	0.5	Bromodichloromethane	ND<10	20	0.5
Bromoform	ND<10	20	0.5	Bromomethane	ND<10	20	0.5
2-Butanone (MEK)	ND<40	20	2.0	t-Butyl alcohol (TBA)	ND<40	20	2.0
n-Butyl benzene	ND<10	20	0.5	sec-Butyl benzene	ND<10	20	0.5
tert-Butyl benzene	ND<10	20	0.5	Carbon Disulfide	ND<10	20	0.5
Carbon Tetrachloride	ND<10	20	0.5	Chlorobenzene	ND<10	20	0.5
Chloroethane	ND<10	20	0.5	Chloroform	ND<10	20	0.5
Chloromethane	ND<10	20	0.5	2-Chlorotoluene	ND<10	20	0.5
4-Chlorotoluene	ND<10	20	0.5	Dibromochloromethane	ND<10	20	0.5
1,2-Dibromo-3-chloropropane	ND<4.0	20	0.2	1,2-Dibromoethane (EDB)	ND<10	20	0.5
Dibromomethane	ND<10	20	0.5	1,2-Dichlorobenzene	ND<10	20	0.5
1,3-Dichlorobenzene	ND<10	20	0.5	1,4-Dichlorobenzene	ND<10	20	0.5
Dichlorodifluoromethane	ND<10	20	0.5	1,1-Dichloroethane	ND<10	20	0.5
1,2-Dichloroethane (1,2-DCA)	ND<10	20	0.5	1,1-Dichloroethene	ND<10	20	0.5
cis-1,2-Dichloroethene	ND<10	20	0.5	trans-1,2-Dichloroethene	ND<10	20	0.5
1,2-Dichloropropane	ND<10	20	0.5	1,3-Dichloropropane	ND<10	20	0.5
2,2-Dichloropropane	ND<10	20	0.5	1,1-Dichloropropene	ND<10	20	0.5
cis-1,3-Dichloropropene	ND<10	20	0.5	trans-1,3-Dichloropropene	ND<10	20	0.5
Diisopropyl ether (DIPE)	ND<10	20	0.5	Ethylbenzene	ND<10	20	0.5
Ethyl tert-butyl ether (ETBE)	ND<10	20	0.5	Freon 113	ND<200	20	10
Hexachlorobutadiene	ND<10	20	0.5	Hexachloroethane	ND<10	20	0.5
2-Hexanone	ND<10	20	0.5	Isopropylbenzene	ND<10	20	0.5
4-Isopropyl toluene	ND<10	20	0.5	Methyl-t-butyl ether (MTBE)	ND<10	20	0.5
Methylene chloride	ND<10	20	0.5	4-Methyl-2-pentanone (MIBK)	ND<10	20	0.5
Naphthalene	ND<10	20	0.5	n-Propyl benzene	ND<10	20	0.5
Styrene	ND<10	20	0.5	1,1,1,2-Tetrachloroethane	ND<10	20	0.5
1,1,2,2-Tetrachloroethane	ND<10	20	0.5	Tetrachloroethene	170	20	0.5
Toluene	ND<10	20	0.5	1,2,3-Trichlorobenzene	ND<10	20	0.5
1,2,4-Trichlorobenzene	ND<10	20	0.5	1,1,1-Trichloroethane	ND<10	20	0.5
1,1,2-Trichloroethane	ND<10	20	0.5	Trichloroethene	ND<10	20	0.5
Trichlorofluoromethane	ND<10	20	0.5	1,2,3-Trichloropropane	ND<10	20	0.5
1,2,4-Trimethylbenzene	ND<10	20	0.5	1,3,5-Trimethylbenzene	ND<10	20	0.5
Vinyl Chloride	ND<10	20	0.5	Xylenes, Total	ND<10	20	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	93
%SS3:	103		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-011A						
Client ID	MW-25						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<330	33	10	tert-Amyl methyl ether (TAME)	ND<17	33	0.5
Benzene	700	33	0.5	Bromobenzene	ND<17	33	0.5
Bromochloromethane	ND<17	33	0.5	Bromodichloromethane	ND<17	33	0.5
Bromoform	ND<17	33	0.5	Bromomethane	ND<17	33	0.5
2-Butanone (MEK)	ND<67	33	2.0	t-Butyl alcohol (TBA)	ND<67	33	2.0
n-Butyl benzene	24	33	0.5	sec-Butyl benzene	23	33	0.5
tert-Butyl benzene	ND<17	33	0.5	Carbon Disulfide	ND<17	33	0.5
Carbon Tetrachloride	ND<17	33	0.5	Chlorobenzene	ND<17	33	0.5
Chloroethane	ND<17	33	0.5	Chloroform	ND<17	33	0.5
Chloromethane	ND<17	33	0.5	2-Chlorotoluene	ND<17	33	0.5
4-Chlorotoluene	ND<17	33	0.5	Dibromochloromethane	ND<17	33	0.5
1,2-Dibromo-3-chloropropane	ND<6.7	33	0.2	1,2-Dibromoethane (EDB)	ND<17	33	0.5
Dibromomethane	ND<17	33	0.5	1,2-Dichlorobenzene	ND<17	33	0.5
1,3-Dichlorobenzene	ND<17	33	0.5	1,4-Dichlorobenzene	ND<17	33	0.5
Dichlorodifluoromethane	ND<17	33	0.5	1,1-Dichloroethane	ND<17	33	0.5
1,2-Dichloroethane (1,2-DCA)	ND<17	33	0.5	1,1-Dichloroethene	ND<17	33	0.5
cis-1,2-Dichloroethene	31	33	0.5	trans-1,2-Dichloroethene	ND<17	33	0.5
1,2-Dichloropropane	ND<17	33	0.5	1,3-Dichloropropane	ND<17	33	0.5
2,2-Dichloropropane	ND<17	33	0.5	1,1-Dichloropropene	ND<17	33	0.5
cis-1,3-Dichloropropene	ND<17	33	0.5	trans-1,3-Dichloropropene	ND<17	33	0.5
Diisopropyl ether (DIPE)	ND<17	33	0.5	Ethylbenzene	570	33	0.5
Ethyl tert-butyl ether (ETBE)	ND<17	33	0.5	Freon 113	ND<330	33	10
Hexachlorobutadiene	ND<17	33	0.5	Hexachloroethane	ND<17	33	0.5
2-Hexanone	ND<17	33	0.5	Isopropylbenzene	55	33	0.5
4-Isopropyl toluene	ND<17	33	0.5	Methyl-t-butyl ether (MTBE)	ND<17	33	0.5
Methylene chloride	ND<17	33	0.5	4-Methyl-2-pentanone (MIBK)	ND<17	33	0.5
Naphthalene	60	33	0.5	n-Propyl benzene	130	33	0.5
Styrene	ND<17	33	0.5	1,1,1,2-Tetrachloroethane	ND<17	33	0.5
1,1,2,2-Tetrachloroethane	ND<17	33	0.5	Tetrachloroethene	ND<17	33	0.5
Toluene	360	33	0.5	1,2,3-Trichlorobenzene	ND<17	33	0.5
1,2,4-Trichlorobenzene	ND<17	33	0.5	1,1,1-Trichloroethane	ND<17	33	0.5
1,1,2-Trichloroethane	ND<17	33	0.5	Trichloroethene	ND<17	33	0.5
Trichlorofluoromethane	ND<17	33	0.5	1,2,3-Trichloropropane	ND<17	33	0.5
1,2,4-Trimethylbenzene	540	33	0.5	1,3,5-Trimethylbenzene	180	33	0.5
Vinyl Chloride	32	33	0.5	Xylenes, Total	390	33	0.5

Surrogate Recoveries (%)

%SS1:	87	%SS2:	88
%SS3:	99		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-012A						
Client ID	MW-26						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	0.94	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	19	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	2.1	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	92	%SS2:	95
%SS3:	87		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-013A						
Client ID	MW-27						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	5.7	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	24	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	3.5	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	98
%SS3:	84		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-014A						
Client ID	MW-28						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	12	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	320	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	6.1	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes, Total	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	89
%SS3:	102		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-015A						
Client ID	MW-29						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<500	50	10	tert-Amyl methyl ether (TAME)	ND<25	50	0.5
Benzene	ND<25	50	0.5	Bromobenzene	ND<25	50	0.5
Bromochloromethane	ND<25	50	0.5	Bromodichloromethane	ND<25	50	0.5
Bromoform	ND<25	50	0.5	Bromomethane	ND<25	50	0.5
2-Butanone (MEK)	ND<100	50	2.0	t-Butyl alcohol (TBA)	ND<100	50	2.0
n-Butyl benzene	ND<25	50	0.5	sec-Butyl benzene	ND<25	50	0.5
tert-Butyl benzene	ND<25	50	0.5	Carbon Disulfide	ND<25	50	0.5
Carbon Tetrachloride	ND<25	50	0.5	Chlorobenzene	ND<25	50	0.5
Chloroethane	ND<25	50	0.5	Chloroform	ND<25	50	0.5
Chloromethane	ND<25	50	0.5	2-Chlorotoluene	ND<25	50	0.5
4-Chlorotoluene	ND<25	50	0.5	Dibromochloromethane	ND<25	50	0.5
1,2-Dibromo-3-chloropropane	ND<10	50	0.2	1,2-Dibromoethane (EDB)	ND<25	50	0.5
Dibromomethane	ND<25	50	0.5	1,2-Dichlorobenzene	ND<25	50	0.5
1,3-Dichlorobenzene	ND<25	50	0.5	1,4-Dichlorobenzene	ND<25	50	0.5
Dichlorodifluoromethane	ND<25	50	0.5	1,1-Dichloroethane	ND<25	50	0.5
1,2-Dichloroethane (1,2-DCA)	ND<25	50	0.5	1,1-Dichloroethene	ND<25	50	0.5
cis-1,2-Dichloroethene	120	50	0.5	trans-1,2-Dichloroethene	ND<25	50	0.5
1,2-Dichloropropane	ND<25	50	0.5	1,3-Dichloropropane	ND<25	50	0.5
2,2-Dichloropropane	ND<25	50	0.5	1,1-Dichloropropene	ND<25	50	0.5
cis-1,3-Dichloropropene	ND<25	50	0.5	trans-1,3-Dichloropropene	ND<25	50	0.5
Diisopropyl ether (DIPE)	ND<25	50	0.5	Ethylbenzene	ND<25	50	0.5
Ethyl tert-butyl ether (ETBE)	ND<25	50	0.5	Freon 113	ND<500	50	10
Hexachlorobutadiene	ND<25	50	0.5	Hexachloroethane	ND<25	50	0.5
2-Hexanone	ND<25	50	0.5	Isopropylbenzene	ND<25	50	0.5
4-Isopropyl toluene	ND<25	50	0.5	Methyl-t-butyl ether (MTBE)	ND<25	50	0.5
Methylene chloride	ND<25	50	0.5	4-Methyl-2-pentanone (MIBK)	ND<25	50	0.5
Naphthalene	ND<25	50	0.5	n-Propyl benzene	ND<25	50	0.5
Styrene	ND<25	50	0.5	1,1,1,2-Tetrachloroethane	ND<25	50	0.5
1,1,2,2-Tetrachloroethane	ND<25	50	0.5	Tetrachloroethene	1200	50	0.5
Toluene	ND<25	50	0.5	1,2,3-Trichlorobenzene	ND<25	50	0.5
1,2,4-Trichlorobenzene	ND<25	50	0.5	1,1,1-Trichloroethane	ND<25	50	0.5
1,1,2-Trichloroethane	ND<25	50	0.5	Trichloroethene	ND<25	50	0.5
Trichlorofluoromethane	ND<25	50	0.5	1,2,3-Trichloropropane	ND<25	50	0.5
1,2,4-Trimethylbenzene	ND<25	50	0.5	1,3,5-Trimethylbenzene	ND<25	50	0.5
Vinyl Chloride	ND<25	50	0.5	Xylenes, Total	ND<25	50	0.5

Surrogate Recoveries (%)

%SS1:	88	%SS2:	89
%SS3:	104		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-016A						
Client ID	MW-30						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<500	50	10	tert-Amyl methyl ether (TAME)	ND<25	50	0.5
Benzene	ND<25	50	0.5	Bromobenzene	ND<25	50	0.5
Bromochloromethane	ND<25	50	0.5	Bromodichloromethane	ND<25	50	0.5
Bromoform	ND<25	50	0.5	Bromomethane	ND<25	50	0.5
2-Butanone (MEK)	ND<100	50	2.0	t-Butyl alcohol (TBA)	ND<100	50	2.0
n-Butyl benzene	ND<25	50	0.5	sec-Butyl benzene	ND<25	50	0.5
tert-Butyl benzene	ND<25	50	0.5	Carbon Disulfide	ND<25	50	0.5
Carbon Tetrachloride	ND<25	50	0.5	Chlorobenzene	ND<25	50	0.5
Chloroethane	ND<25	50	0.5	Chloroform	ND<25	50	0.5
Chloromethane	ND<25	50	0.5	2-Chlorotoluene	ND<25	50	0.5
4-Chlorotoluene	ND<25	50	0.5	Dibromochloromethane	ND<25	50	0.5
1,2-Dibromo-3-chloropropane	ND<10	50	0.2	1,2-Dibromoethane (EDB)	ND<25	50	0.5
Dibromomethane	ND<25	50	0.5	1,2-Dichlorobenzene	ND<25	50	0.5
1,3-Dichlorobenzene	ND<25	50	0.5	1,4-Dichlorobenzene	ND<25	50	0.5
Dichlorodifluoromethane	ND<25	50	0.5	1,1-Dichloroethane	ND<25	50	0.5
1,2-Dichloroethane (1,2-DCA)	ND<25	50	0.5	1,1-Dichloroethene	ND<25	50	0.5
cis-1,2-Dichloroethene	110	50	0.5	trans-1,2-Dichloroethene	ND<25	50	0.5
1,2-Dichloropropane	ND<25	50	0.5	1,3-Dichloropropane	ND<25	50	0.5
2,2-Dichloropropane	ND<25	50	0.5	1,1-Dichloropropene	ND<25	50	0.5
cis-1,3-Dichloropropene	ND<25	50	0.5	trans-1,3-Dichloropropene	ND<25	50	0.5
Diisopropyl ether (DIPE)	ND<25	50	0.5	Ethylbenzene	ND<25	50	0.5
Ethyl tert-butyl ether (ETBE)	ND<25	50	0.5	Freon 113	ND<500	50	10
Hexachlorobutadiene	ND<25	50	0.5	Hexachloroethane	ND<25	50	0.5
2-Hexanone	ND<25	50	0.5	Isopropylbenzene	ND<25	50	0.5
4-Isopropyl toluene	ND<25	50	0.5	Methyl-t-butyl ether (MTBE)	ND<25	50	0.5
Methylene chloride	ND<25	50	0.5	4-Methyl-2-pentanone (MIBK)	ND<25	50	0.5
Naphthalene	ND<25	50	0.5	n-Propyl benzene	ND<25	50	0.5
Styrene	ND<25	50	0.5	1,1,1,2-Tetrachloroethane	ND<25	50	0.5
1,1,2,2-Tetrachloroethane	ND<25	50	0.5	Tetrachloroethene	1600	50	0.5
Toluene	ND<25	50	0.5	1,2,3-Trichlorobenzene	ND<25	50	0.5
1,2,4-Trichlorobenzene	ND<25	50	0.5	1,1,1-Trichloroethane	ND<25	50	0.5
1,1,2-Trichloroethane	ND<25	50	0.5	Trichloroethene	27	50	0.5
Trichlorofluoromethane	ND<25	50	0.5	1,2,3-Trichloropropane	ND<25	50	0.5
1,2,4-Trimethylbenzene	ND<25	50	0.5	1,3,5-Trimethylbenzene	ND<25	50	0.5
Vinyl Chloride	ND<25	50	0.5	Xylenes, Total	ND<25	50	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	88
%SS3:	99		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-017A						
Client ID	MW-31						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<100	10	10	tert-Amyl methyl ether (TAME)	ND<5.0	10	0.5
Benzene	ND<5.0	10	0.5	Bromobenzene	ND<5.0	10	0.5
Bromochloromethane	ND<5.0	10	0.5	Bromodichloromethane	ND<5.0	10	0.5
Bromoform	ND<5.0	10	0.5	Bromomethane	ND<5.0	10	0.5
2-Butanone (MEK)	ND<20	10	2.0	t-Butyl alcohol (TBA)	ND<20	10	2.0
n-Butyl benzene	ND<5.0	10	0.5	sec-Butyl benzene	ND<5.0	10	0.5
tert-Butyl benzene	ND<5.0	10	0.5	Carbon Disulfide	ND<5.0	10	0.5
Carbon Tetrachloride	ND<5.0	10	0.5	Chlorobenzene	ND<5.0	10	0.5
Chloroethane	ND<5.0	10	0.5	Chloroform	ND<5.0	10	0.5
Chloromethane	ND<5.0	10	0.5	2-Chlorotoluene	ND<5.0	10	0.5
4-Chlorotoluene	ND<5.0	10	0.5	Dibromochloromethane	ND<5.0	10	0.5
1,2-Dibromo-3-chloropropane	ND<2.0	10	0.2	1,2-Dibromoethane (EDB)	ND<5.0	10	0.5
Dibromomethane	ND<5.0	10	0.5	1,2-Dichlorobenzene	ND<5.0	10	0.5
1,3-Dichlorobenzene	ND<5.0	10	0.5	1,4-Dichlorobenzene	ND<5.0	10	0.5
Dichlorodifluoromethane	ND<5.0	10	0.5	1,1-Dichloroethane	ND<5.0	10	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	10	0.5	1,1-Dichloroethene	ND<5.0	10	0.5
cis-1,2-Dichloroethene	ND<5.0	10	0.5	trans-1,2-Dichloroethene	ND<5.0	10	0.5
1,2-Dichloropropane	ND<5.0	10	0.5	1,3-Dichloropropane	ND<5.0	10	0.5
2,2-Dichloropropane	ND<5.0	10	0.5	1,1-Dichloropropene	ND<5.0	10	0.5
cis-1,3-Dichloropropene	ND<5.0	10	0.5	trans-1,3-Dichloropropene	ND<5.0	10	0.5
Diisopropyl ether (DIPE)	ND<5.0	10	0.5	Ethylbenzene	ND<5.0	10	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	10	0.5	Freon 113	ND<100	10	10
Hexachlorobutadiene	ND<5.0	10	0.5	Hexachloroethane	ND<5.0	10	0.5
2-Hexanone	ND<5.0	10	0.5	Isopropylbenzene	ND<5.0	10	0.5
4-Isopropyl toluene	ND<5.0	10	0.5	Methyl-t-butyl ether (MTBE)	ND<5.0	10	0.5
Methylene chloride	ND<5.0	10	0.5	4-Methyl-2-pentanone (MIBK)	ND<5.0	10	0.5
Naphthalene	ND<5.0	10	0.5	n-Propyl benzene	ND<5.0	10	0.5
Styrene	ND<5.0	10	0.5	1,1,1,2-Tetrachloroethane	ND<5.0	10	0.5
1,1,2,2-Tetrachloroethane	ND<5.0	10	0.5	Tetrachloroethene	150	10	0.5
Toluene	ND<5.0	10	0.5	1,2,3-Trichlorobenzene	ND<5.0	10	0.5
1,2,4-Trichlorobenzene	ND<5.0	10	0.5	1,1,1-Trichloroethane	ND<5.0	10	0.5
1,1,2-Trichloroethane	ND<5.0	10	0.5	Trichloroethene	ND<5.0	10	0.5
Trichlorofluoromethane	ND<5.0	10	0.5	1,2,3-Trichloropropane	ND<5.0	10	0.5
1,2,4-Trimethylbenzene	ND<5.0	10	0.5	1,3,5-Trimethylbenzene	ND<5.0	10	0.5
Vinyl Chloride	ND<5.0	10	0.5	Xylenes, Total	ND<5.0	10	0.5

Surrogate Recoveries (%)

%SS1:	90	%SS2:	97
%SS3:	87		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-018A						
Client ID	MW-33						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<200	20	10	tert-Amyl methyl ether (TAME)	ND<10	20	0.5
Benzene	ND<10	20	0.5	Bromobenzene	ND<10	20	0.5
Bromochloromethane	ND<10	20	0.5	Bromodichloromethane	ND<10	20	0.5
Bromoform	ND<10	20	0.5	Bromomethane	ND<10	20	0.5
2-Butanone (MEK)	ND<40	20	2.0	t-Butyl alcohol (TBA)	ND<40	20	2.0
n-Butyl benzene	ND<10	20	0.5	sec-Butyl benzene	ND<10	20	0.5
tert-Butyl benzene	ND<10	20	0.5	Carbon Disulfide	ND<10	20	0.5
Carbon Tetrachloride	ND<10	20	0.5	Chlorobenzene	ND<10	20	0.5
Chloroethane	ND<10	20	0.5	Chloroform	ND<10	20	0.5
Chloromethane	ND<10	20	0.5	2-Chlorotoluene	ND<10	20	0.5
4-Chlorotoluene	ND<10	20	0.5	Dibromochloromethane	ND<10	20	0.5
1,2-Dibromo-3-chloropropane	ND<4.0	20	0.2	1,2-Dibromoethane (EDB)	ND<10	20	0.5
Dibromomethane	ND<10	20	0.5	1,2-Dichlorobenzene	ND<10	20	0.5
1,3-Dichlorobenzene	ND<10	20	0.5	1,4-Dichlorobenzene	ND<10	20	0.5
Dichlorodifluoromethane	ND<10	20	0.5	1,1-Dichloroethane	ND<10	20	0.5
1,2-Dichloroethane (1,2-DCA)	ND<10	20	0.5	1,1-Dichloroethene	ND<10	20	0.5
cis-1,2-Dichloroethene	ND<10	20	0.5	trans-1,2-Dichloroethene	ND<10	20	0.5
1,2-Dichloropropane	ND<10	20	0.5	1,3-Dichloropropane	ND<10	20	0.5
2,2-Dichloropropane	ND<10	20	0.5	1,1-Dichloropropene	ND<10	20	0.5
cis-1,3-Dichloropropene	ND<10	20	0.5	trans-1,3-Dichloropropene	ND<10	20	0.5
Diisopropyl ether (DIPE)	ND<10	20	0.5	Ethylbenzene	ND<10	20	0.5
Ethyl tert-butyl ether (ETBE)	ND<10	20	0.5	Freon 113	ND<200	20	10
Hexachlorobutadiene	ND<10	20	0.5	Hexachloroethane	ND<10	20	0.5
2-Hexanone	ND<10	20	0.5	Isopropylbenzene	ND<10	20	0.5
4-Isopropyl toluene	ND<10	20	0.5	Methyl-t-butyl ether (MTBE)	ND<10	20	0.5
Methylene chloride	ND<10	20	0.5	4-Methyl-2-pentanone (MIBK)	ND<10	20	0.5
Naphthalene	ND<10	20	0.5	n-Propyl benzene	ND<10	20	0.5
Styrene	ND<10	20	0.5	1,1,1,2-Tetrachloroethane	ND<10	20	0.5
1,1,2,2-Tetrachloroethane	ND<10	20	0.5	Tetrachloroethene	410	20	0.5
Toluene	ND<10	20	0.5	1,2,3-Trichlorobenzene	ND<10	20	0.5
1,2,4-Trichlorobenzene	ND<10	20	0.5	1,1,1-Trichloroethane	ND<10	20	0.5
1,1,2-Trichloroethane	ND<10	20	0.5	Trichloroethene	17	20	0.5
Trichlorofluoromethane	ND<10	20	0.5	1,2,3-Trichloropropane	ND<10	20	0.5
1,2,4-Trimethylbenzene	ND<10	20	0.5	1,3,5-Trimethylbenzene	ND<10	20	0.5
Vinyl Chloride	ND<10	20	0.5	Xylenes, Total	ND<10	20	0.5

Surrogate Recoveries (%)

%SS1:	87	%SS2:	89
%SS3:	100		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-019A						
Client ID	DUP-1						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<500	50	10	tert-Amyl methyl ether (TAME)	ND<25	50	0.5
Benzene	ND<25	50	0.5	Bromobenzene	ND<25	50	0.5
Bromochloromethane	ND<25	50	0.5	Bromodichloromethane	ND<25	50	0.5
Bromoform	ND<25	50	0.5	Bromomethane	ND<25	50	0.5
2-Butanone (MEK)	ND<100	50	2.0	t-Butyl alcohol (TBA)	ND<100	50	2.0
n-Butyl benzene	ND<25	50	0.5	sec-Butyl benzene	ND<25	50	0.5
tert-Butyl benzene	ND<25	50	0.5	Carbon Disulfide	ND<25	50	0.5
Carbon Tetrachloride	ND<25	50	0.5	Chlorobenzene	ND<25	50	0.5
Chloroethane	ND<25	50	0.5	Chloroform	ND<25	50	0.5
Chloromethane	ND<25	50	0.5	2-Chlorotoluene	ND<25	50	0.5
4-Chlorotoluene	ND<25	50	0.5	Dibromochloromethane	ND<25	50	0.5
1,2-Dibromo-3-chloropropane	ND<10	50	0.2	1,2-Dibromoethane (EDB)	ND<25	50	0.5
Dibromomethane	ND<25	50	0.5	1,2-Dichlorobenzene	ND<25	50	0.5
1,3-Dichlorobenzene	ND<25	50	0.5	1,4-Dichlorobenzene	ND<25	50	0.5
Dichlorodifluoromethane	ND<25	50	0.5	1,1-Dichloroethane	ND<25	50	0.5
1,2-Dichloroethane (1,2-DCA)	ND<25	50	0.5	1,1-Dichloroethene	ND<25	50	0.5
cis-1,2-Dichloroethene	29	50	0.5	trans-1,2-Dichloroethene	ND<25	50	0.5
1,2-Dichloropropane	ND<25	50	0.5	1,3-Dichloropropane	ND<25	50	0.5
2,2-Dichloropropane	ND<25	50	0.5	1,1-Dichloropropene	ND<25	50	0.5
cis-1,3-Dichloropropene	ND<25	50	0.5	trans-1,3-Dichloropropene	ND<25	50	0.5
Diisopropyl ether (DIPE)	ND<25	50	0.5	Ethylbenzene	ND<25	50	0.5
Ethyl tert-butyl ether (ETBE)	ND<25	50	0.5	Freon 113	ND<500	50	10
Hexachlorobutadiene	ND<25	50	0.5	Hexachloroethane	ND<25	50	0.5
2-Hexanone	ND<25	50	0.5	Isopropylbenzene	ND<25	50	0.5
4-Isopropyl toluene	ND<25	50	0.5	Methyl-t-butyl ether (MTBE)	ND<25	50	0.5
Methylene chloride	ND<25	50	0.5	4-Methyl-2-pentanone (MIBK)	ND<25	50	0.5
Naphthalene	ND<25	50	0.5	n-Propyl benzene	ND<25	50	0.5
Styrene	ND<25	50	0.5	1,1,1,2-Tetrachloroethane	ND<25	50	0.5
1,1,2,2-Tetrachloroethane	ND<25	50	0.5	Tetrachloroethene	920	50	0.5
Toluene	ND<25	50	0.5	1,2,3-Trichlorobenzene	ND<25	50	0.5
1,2,4-Trichlorobenzene	ND<25	50	0.5	1,1,1-Trichloroethane	ND<25	50	0.5
1,1,2-Trichloroethane	ND<25	50	0.5	Trichloroethene	310	50	0.5
Trichlorofluoromethane	ND<25	50	0.5	1,2,3-Trichloropropane	ND<25	50	0.5
1,2,4-Trimethylbenzene	ND<25	50	0.5	1,3,5-Trimethylbenzene	ND<25	50	0.5
Vinyl Chloride	ND<25	50	0.5	Xylenes, Total	ND<25	50	0.5

Surrogate Recoveries (%)

%SS1:	88	%SS2:	89
%SS3:	100		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/28/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/28/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-020A						
Client ID	DUP-2						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<2000	200	10	tert-Amyl methyl ether (TAME)	ND<100	200	0.5
Benzene	ND<100	200	0.5	Bromobenzene	ND<100	200	0.5
Bromochloromethane	ND<100	200	0.5	Bromodichloromethane	ND<100	200	0.5
Bromoform	ND<100	200	0.5	Bromomethane	ND<100	200	0.5
2-Butanone (MEK)	ND<400	200	2.0	t-Butyl alcohol (TBA)	ND<400	200	2.0
n-Butyl benzene	ND<100	200	0.5	sec-Butyl benzene	ND<100	200	0.5
tert-Butyl benzene	ND<100	200	0.5	Carbon Disulfide	ND<100	200	0.5
Carbon Tetrachloride	ND<100	200	0.5	Chlorobenzene	ND<100	200	0.5
Chloroethane	ND<100	200	0.5	Chloroform	ND<100	200	0.5
Chloromethane	ND<100	200	0.5	2-Chlorotoluene	ND<100	200	0.5
4-Chlorotoluene	ND<100	200	0.5	Dibromochloromethane	ND<100	200	0.5
1,2-Dibromo-3-chloropropane	ND<40	200	0.2	1,2-Dibromoethane (EDB)	ND<100	200	0.5
Dibromomethane	ND<100	200	0.5	1,2-Dichlorobenzene	ND<100	200	0.5
1,3-Dichlorobenzene	ND<100	200	0.5	1,4-Dichlorobenzene	ND<100	200	0.5
Dichlorodifluoromethane	ND<100	200	0.5	1,1-Dichloroethane	ND<100	200	0.5
1,2-Dichloroethane (1,2-DCA)	ND<100	200	0.5	1,1-Dichloroethene	ND<100	200	0.5
cis-1,2-Dichloroethene	230	200	0.5	trans-1,2-Dichloroethene	ND<100	200	0.5
1,2-Dichloropropane	ND<100	200	0.5	1,3-Dichloropropane	ND<100	200	0.5
2,2-Dichloropropane	ND<100	200	0.5	1,1-Dichloropropene	ND<100	200	0.5
cis-1,3-Dichloropropene	ND<100	200	0.5	trans-1,3-Dichloropropene	ND<100	200	0.5
Diisopropyl ether (DIPE)	ND<100	200	0.5	Ethylbenzene	ND<100	200	0.5
Ethyl tert-butyl ether (ETBE)	ND<100	200	0.5	Freon 113	ND<2000	200	10
Hexachlorobutadiene	ND<100	200	0.5	Hexachloroethane	ND<100	200	0.5
2-Hexanone	ND<100	200	0.5	Isopropylbenzene	ND<100	200	0.5
4-Isopropyl toluene	ND<100	200	0.5	Methyl-t-butyl ether (MTBE)	ND<100	200	0.5
Methylene chloride	ND<100	200	0.5	4-Methyl-2-pentanone (MIBK)	ND<100	200	0.5
Naphthalene	ND<100	200	0.5	n-Propyl benzene	ND<100	200	0.5
Styrene	ND<100	200	0.5	1,1,1,2-Tetrachloroethane	ND<100	200	0.5
1,1,2,2-Tetrachloroethane	ND<100	200	0.5	Tetrachloroethene	3600	200	0.5
Toluene	ND<100	200	0.5	1,2,3-Trichlorobenzene	ND<100	200	0.5
1,2,4-Trichlorobenzene	ND<100	200	0.5	1,1,1-Trichloroethane	ND<100	200	0.5
1,1,2-Trichloroethane	ND<100	200	0.5	Trichloroethene	ND<100	200	0.5
Trichlorofluoromethane	ND<100	200	0.5	1,2,3-Trichloropropane	ND<100	200	0.5
1,2,4-Trimethylbenzene	ND<100	200	0.5	1,3,5-Trimethylbenzene	ND<100	200	0.5
Vinyl Chloride	ND<100	200	0.5	Xylenes, Total	ND<100	200	0.5

Surrogate Recoveries (%)

%SS1:	89	%SS2:	91
%SS3:	104		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/27/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/27/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-021A						
Client ID	Trip Blank						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	91	%SS2:	100
%SS3:	90		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry/Lindsell Property	Date Sampled: 05/20/11
		Date Received: 05/23/11
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 05/28/11
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 05/28/11

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1105676

Lab ID	1105676-022A
Client ID	Equipment Blank
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	1.4	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	7.1	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	1.9	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	92	%SS2:	89
%SS3:	105		

Comments:

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58523 WorkOrder: 1105676

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1105645-004B**

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
tert-Amyl methyl ether (TAME)	ND	10	83.7	87.7	4.69	76.2	79.1	3.83	70 - 130	30	70 - 130	30
Benzene	ND	10	91.4	95.8	4.67	87.4	89.2	2.06	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	102	103	1.19	78.8	78	0.925	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	94.3	99	4.82	92.8	92.7	0.147	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	94.2	98.3	4.20	87.2	87.4	0.279	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	95.1	98.6	3.56	88.8	89.7	1.03	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	82.2	86.3	4.85	77.4	80.6	4.11	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	100	104	3.70	94.2	95.3	1.17	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	97.2	101	4.12	89.3	90.7	1.58	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	108	4.02	95.3	96.8	1.57	70 - 130	30	70 - 130	30
Toluene	ND	10	90.5	94.4	4.26	88.1	88.8	0.801	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	91.3	94.6	3.61	88.6	89.6	1.12	70 - 130	30	70 - 130	30
%SS1:	91	25	92	92	0	90	91	0.692	70 - 130	30	70 - 130	30
%SS2:	97	25	97	97	0	98	99	1.66	70 - 130	30	70 - 130	30
%SS3:	85	2.5	88	87	1.31	88	90	3.13	70 - 130	30	70 - 130	30

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

BATCH 58523 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105676-001A	05/20/11 3:00 PM	05/26/11	05/26/11 12:08 AM	1105676-002A	05/20/11 12:40 PM	05/26/11	05/26/11 12:47 AM
1105676-003A	05/20/11 11:55 AM	05/26/11	05/26/11 1:25 AM	1105676-004A	05/20/11 2:30 PM	05/26/11	05/26/11 5:57 PM
1105676-005A	05/20/11 11:35 AM	05/26/11	05/26/11 2:45 AM	1105676-006A	05/20/11 10:00 AM	05/24/11	05/24/11 11:19 PM
1105676-007A	05/20/11 10:20 AM	05/25/11	05/25/11	1105676-008A	05/20/11 2:00 PM	05/26/11	05/26/11 4:03 AM
1105676-009A	05/20/11 12:15 PM	05/25/11	05/25/11 1:19 AM	1105676-010A	05/20/11 1:10 PM	05/26/11	05/26/11 5:24 AM
1105676-011A	05/20/11 11:15 AM	05/27/11	05/27/11 7:46 PM	1105676-012A	05/20/11 11:00 AM	05/27/11	05/27/11 8:54 PM
1105676-013A	05/20/11 10:40 AM	05/27/11	05/27/11 5:16 PM	1105676-014A	05/20/11 12:55 PM	05/27/11	05/27/11 3:07 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.

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

NR = 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.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

SH 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

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58555 WorkOrder: 1105676

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 1105676-021A**

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
tert-Amyl methyl ether (TAME)	ND	10	87.2	86.4	0.966	89.9	83	7.49	70 - 130	30	70 - 130	30
Benzene	ND	10	97.3	96.2	1.16	114	112	1.62	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	93.7	89.5	4.57	93.5	88.1	6.03	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	97.8	97.5	0.328	112	112	0	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	100	100	0	101	98.8	2.07	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	95.4	94.7	0.722	112	109	2.71	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	98.9	95.8	3.24	121	120	0.704	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	103	101	1.34	119	118	1.28	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	99.6	99	0.599	102	99.2	2.72	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	103	1.43	122	116	4.42	70 - 130	30	70 - 130	30
Toluene	ND	10	97.1	97.3	0.136	112	111	0.927	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	98.4	99.1	0.649	118	117	1.01	70 - 130	30	70 - 130	30
%SS1:	91	25	93	94	0.593	99	98	0.853	70 - 130	30	70 - 130	30
%SS2:	100	25	97	98	0.421	99	99	0	70 - 130	30	70 - 130	30
%SS3:	90	2.5	94	93	0.884	98	98	0	70 - 130	30	70 - 130	30

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

BATCH 58555 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105676-015A	05/20/11 2:15 PM	05/27/11	05/27/11 8:26 PM	1105676-016A	05/20/11 2:45 PM	05/27/11	05/27/11 4:25 PM
1105676-017A	05/20/11 1:30 PM	05/27/11	05/27/11 8:12 PM	1105676-018A	05/20/11 1:45 PM	05/27/11	05/27/11 9:05 PM
1105676-019A	05/20/11	05/27/11	05/27/11 9:43 PM	1105676-020A	05/20/11	05/28/11	05/28/11 3:59 PM
1105676-021A	05/20/11	05/27/11	05/27/11 2:00 AM	1105676-022A	05/20/11 3:15 PM	05/28/11	05/28/11 11:21 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.

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

NR = 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.

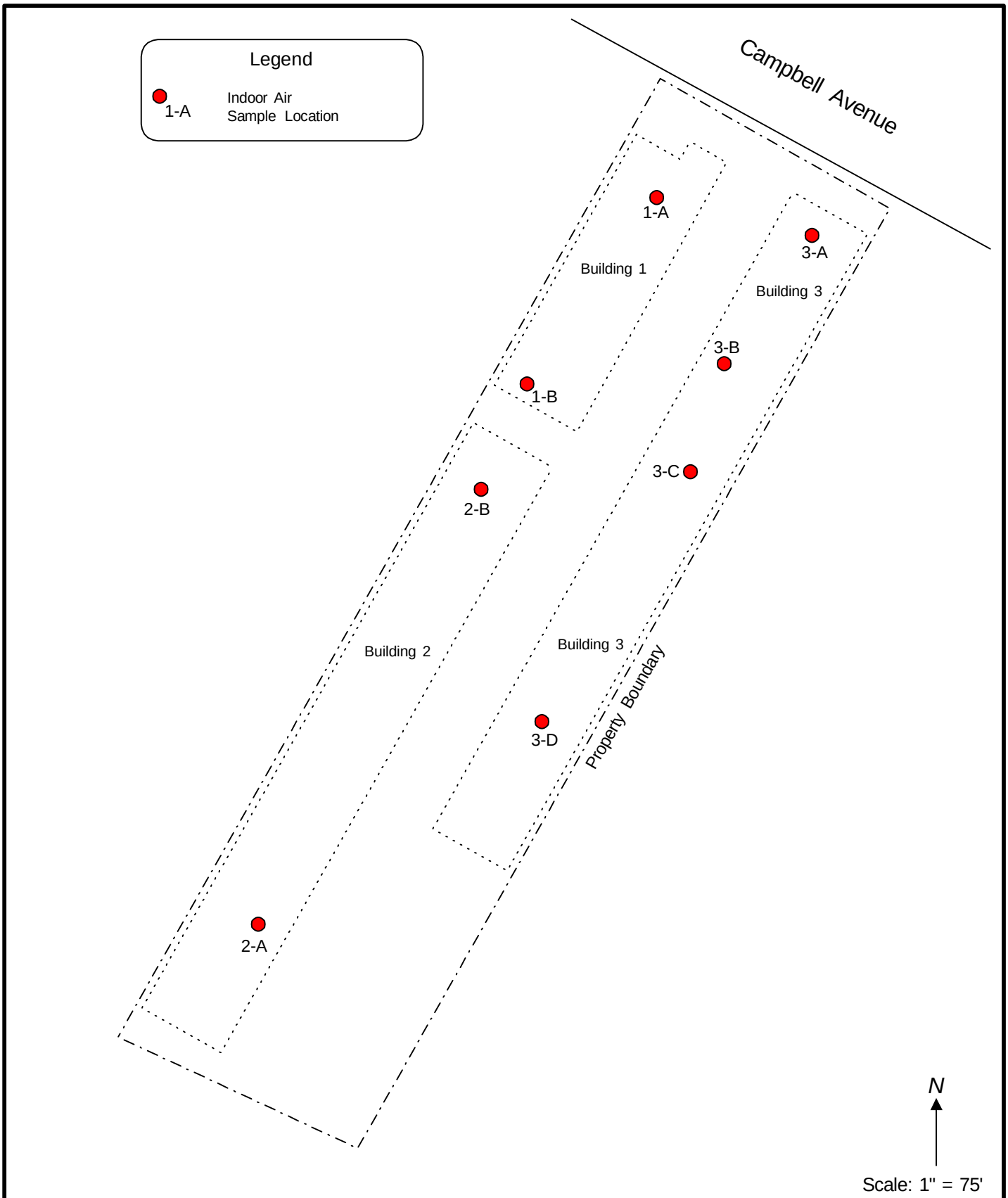
surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

SH QA/QC Officer

Indoor Air Samples
(12/2/09, 1/31/10, 2/21/10)



GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, California 95037

Indoor Air Sample Location Map

A J Commercial Laundry

1173-1175 Campbell Avenue, San Jose, California

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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Laundry	Date Sampled:	12/02/09
15940 Concord Circle		Date Received:	12/03/09
Morgan Hill, CA 95037	Client Contact: Roger Dockter	Date Reported:	12/09/09
	Client P.O.:	Date Completed:	12/09/09

WorkOrder: 0912119

December 09, 2009

Dear Roger:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#0543; AJ Laundry,**
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.

0912119

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
www.main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: GeoRestoration, Inc. Bill To: GeoRestoration, Inc.

Company: GeoRestoration, Inc.
15940 Concord Circle, Suite 100
Morgan Hill, CA 95037 E-Mail: main@georestoration.com
Tele: (408) 779-5533 Fax: (408) 779-5530
Project #: 0543 Project Name: AJ Laundry
Project Location: 1173 Campbell Ave, San Jose, CA
Sampler Signature: Roger Dockter

Lab Use Only

Pressurized By	Date	Pressurization Gas	
		N2	He

Notes:

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
3B	12/2/09	5:45	CAN6044-809	SK6782-523	TO15 for PCE + Benzene	X		29.5	3.0		

Relinquished By:	Date:	Time:	Received By:
Roger Dockter	12/3/09	11:35	Dan Klatt
Dan Klatt	12/3/09	1700	Mike Yelle

Temp (°C): n/a Work Order #: 0912119
Condition: good
Custody Seals Intact?: Yes ____ No ____ None ✓
Shipped Via: D.C. (MAI Courier)

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0912119 **ClientCode: GEOS**

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

Report to:
Roger Dockter
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037
408-292-8450 FAX 408-295-8451

Email: main@georestoration.com
cc:
PO:
ProjectNo: #0543; AJ Laundry

Bill to:
Accounts Payable
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037

Requested TAT: 5 days

Date Received: **12/03/2009**
Date Printed: **12/04/2009**

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
0912119-001	3B	Indoor Air	12/2/2009 17:45	☐	A											

Test Legend:

1	TO15_INDOOR	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

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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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **GeoRestoration, Inc.**

Date and Time Received: **12/3/2009 5:00:00 PM**

Project Name: **#0543; AJ Laundry**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0912119** Matrix Indoor Air

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:		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 ☑	

** 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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Telephone: 877-252-9262 Fax: 925-252-9269

GeoRestoration, Inc.	Client Project ID: #0543; AJ Laundry	Date Sampled: 12/02/09
15940 Concord Circle		Date Received: 12/03/09
	Client Contact: Roger Dockter	Date Extracted: 12/05/09-12/08/09
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed 12/05/09-12/08/09

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0912119

Lab ID	0912119-001A				Reporting Limit for DF =1 and Pressure Ratio (Final/Initial) = 2	
Client ID	3B					
Matrix	Indoor Air					
Initial Pressure (psia)	14.7					
Final Pressure (psia)	14.7					
DF	1				S	A
Compound	**Concentration**				ug/kg	µg/m³
Benzene	1.7				NA	0.32
Tetrachloroethene	350				NA	0.69
Surrogate Recoveries (%)						
%SS1:	105					
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Laundry	Date Sampled: 12/02/09
15940 Concord Circle		Date Received: 12/03/09
	Client Contact: Roger Dockter	Date Extracted: 12/05/09-12/08/09
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed 12/05/09-12/08/09

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 0912119

Lab ID	0912119-001A				Reporting Limit for DF =1 and Pressure Ratio (Final/Initial) = 2	
Client ID	3B					
Matrix	Indoor Air					
Initial Pressure (psia)	14.7					
Final Pressure (psia)	14.7					
DF	1				S	A
Compound	**Concentration**				ug/kg	nL/L
Benzene	0.52				NA	0.1
Tetrachloroethene	51				NA	0.1
Surrogate Recoveries (%)						
%SS1:	105					
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Indoor Air QC Matrix: Soil Vapor BatchID: 47341 WorkOrder: 0912119

EPA Method TO15 **Extraction TO15** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	N/A	25	N/A	N/A	N/A	102	100	1.84	N/A	N/A	70 - 130	30
Tetrachloroethene	N/A	25	N/A	N/A	N/A	103	101	1.64	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	107	105	2.47	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	104	102	1.08	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	99	99	0	N/A	N/A	70 - 130	30

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

BATCH 47341 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0912119-001A	12/02/09 5:45 PM	12/05/09	12/05/09 12:47 AM	0912119-001A	12/02/09 5:45 PM	12/08/09	12/08/09 12:36 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

JR QA/QC Officer

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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 01/31/10
15940 Concord Circle		Date Received: 02/08/10
	Client Contact: Roger Dockter	Date Reported: 02/10/10
Morgan Hill, CA 95037	Client P.O.:	Date Completed: 02/10/10

WorkOrder: 1002180

February 10, 2010

Dear Roger:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#0543; AJ Commercial Laundry,**
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.

1002180

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
www.main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: GeoRestoration, Inc. Bill To: GeoRestoration, Inc.

Company: GeoRestoration, Inc.
15940 Concord Circle, Suite 100
Morgan Hill, CA 95037 E-Mail: main@georestoration.com
Tele: (408) 779-5533 Fax: (408) 779-5530
Project #: 0543 Project Name: AJ Commercial Laundry
Project Location: 1173 Campbell Avenue, San Jose, CA
Sampler Signature: Roger Dockter

Lab Use Only

Pressurized By	Date	Pressurization Gas	
		N2	He

Notes:

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
3-C	1/31/10	5:00	4891	SK 8903-517	TO15 for PCE + benzene	X		30+	5.5		

Relinquished By:	Date:	Time:	Received By:
Roger Dockter	2/8/10	12:32	Dave Lo
Dave Lo	2/8/10	1600	Mike Yell

Temp (°C): n/a Work Order #: 1002180
Condition: good
Custody Seals Intact?: Yes ____ No ____ None ✓
Shipped Via: D.C. (MAI courier)

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1002180 **ClientCode: GEOS**

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

Report to:
Roger Dockter
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037
408-292-8450 FAX 408-295-8451

Email: main@georestoration.com
cc:
PO:
ProjectNo: #0543; AJ Commercial Laundry

Bill to:
Accounts Payable
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037

Requested TAT: 5 days

Date Received: **02/08/2010**
Date Printed: **02/08/2010**

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
1002180-001	3-C	Indoor Air	1/31/2010 5:00	☐	A											

Test Legend:

1	TO15_INDOOR	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

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: **GeoRestoration, Inc.**

Date and Time Received: **2/8/2010 7:27:30 PM**

Project Name: **#0543; AJ Commercial Laundry**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1002180** Matrix Indoor Air

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:		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 ☑	

** 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

GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, CA 95037	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 01/31/10
		Date Received: 02/08/10
	Client Contact: Roger Dockter	Date Extracted: 02/09/10
	Client P.O.:	Date Analyzed: 02/09/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002180

Lab ID	1002180-001A				Reporting Limit for DF =1 and Pressure Ratio (Final/Initial) = 2	
Client ID	3-C					
Matrix	Indoor Air					
Initial Pressure (psia)	13.09					
Final Pressure (psia)	13.09					
DF	1				S	A
Compound	**Concentration**				ug/kg	µg/m³
Benzene	0.72				NA	0.32
Tetrachloroethene	690				NA	0.69
Surrogate Recoveries (%)						
%SS1:	97					
Comments						

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, CA 95037	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 01/31/10
		Date Received: 02/08/10
	Client Contact: Roger Dockter	Date Extracted: 02/09/10
	Client P.O.:	Date Analyzed: 02/09/10

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002180

Lab ID	1002180-001A				Reporting Limit for DF =1 and Pressure Ratio (Final/Initial) = 2	
Client ID	3-C					
Matrix	Indoor Air					
Initial Pressure (psia)	13.09					
Final Pressure (psia)	13.09					
DF	1				S	A
Compound	**Concentration**				ug/kg	nL/L
Benzene	0.23				NA	0.1
Tetrachloroethene	100				NA	0.1
Surrogate Recoveries (%)						
%SS1:	97					
Comments						

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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

QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Indoor Air QC Matrix: Indoor Air BatchID: 48564 WorkOrder 1002180

EPA Method TO15 **Extraction TO15** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	N/A	5	N/A	N/A	N/A	110	108	1.94	N/A	N/A	70 - 130	30
Tetrachloroethene	N/A	5	N/A	N/A	N/A	111	110	1.55	N/A	N/A	70 - 130	30
%SS1:	N/A	100	N/A	N/A	N/A	100	100	0	N/A	N/A	70 - 130	30
%SS2:	N/A	100	N/A	N/A	N/A	102	102	0	N/A	N/A	70 - 130	30

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

BATCH 48564 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002180-001A	01/31/10 5:00 AM	02/09/10	02/09/10 4:51 PM	1002180-001A	01/31/10 5:00 AM	02/09/10	02/09/10 6:54 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

JR QA/QC Officer

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

GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
15940 Concord Circle		Date Received: 02/22/10
	Client Contact: Roger Dockter	Date Reported: 02/25/10
Morgan Hill, CA 95037	Client P.O.:	Date Completed: 02/25/10

WorkOrder: 1002527

February 25, 2010

Dear Roger:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **#0543; AJ Commercial Laundry,**
2) A QC report for the above samples,
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.

1002527

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565-1701
www.main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: GeoRestoration, Inc Bill To: GeoRestoration, Inc

Company: GeoRestoration, Inc.

15940 Concord Circle, Morgan Hill, CA 95037

E-Mail: Main@GeoRestoration.com

Tele: (408) 779-5533 Fax: (408) 779-5530

Project #: 0543 Project Name: AJ Commercial Laundry

Project Location: 1173 Campbell Ave, SJ, CA

Sampler Signature: Roger Dockter

Lab Use Only

Pressurized By	Date	Pressurization Gas N2	Pressurization Gas He

Notes:

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	Analysis Requested	Indoor Air	Soil Gas	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)
			6037	SK7704-546							
BG-1	2/21/10	4:45	~~3649~~	~~SK5909-535~~	TO15 8260	X		29	~~1.5~~ 1		
3-D	↓	5:00	6043	SK7702-539	TO15 8260	X		30	1.75		
3-A	↓	5:05	6060	SK7699-540	TO15 8260	X		28	1		
3-C	↓	5:10	3649	SK5909-535	TO15 8260	X		29	~~1.5~~ 1.5		

Relinquished By:	Date:	Time:	Received By:
Roger Dockter	2/22/10	12:22	Derek Lat
Derek Lat	2/22/10	1510	Mel Vall

Temp (°C): n/a Work Order #: 1002527

Condition: good

Custody Seals Intact?: Yes ____ No ____ None ✓

Shipped Via: D.C. (MAI carrier)

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1002527 **ClientCode: GEOS**

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

Report to:
Roger Dockter
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037
408-292-8450 FAX 408-295-8451

Email: main@georestoration.com
cc:
PO:
ProjectNo: #0543; AJ Commercial Laundry

Bill to:
Accounts Payable
GeoRestoration, Inc.
15940 Concord Circle
Morgan Hill, CA 95037

Requested TAT: 5 days

Date Received: 02/22/2010
Date Printed: 02/22/2010

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
1002527-001	BG-1	Indoor Air	2/21/2010 16:45	☐	A											
1002527-002	3-D	Indoor Air	2/21/2010 17:00	☐	A											
1002527-003	3-A	Indoor Air	2/21/2010 17:05	☐	A											
1002527-004	3-C	Indoor Air	2/21/2010 17:10	☐	A											

Test Legend:

1	TO15_INDOOR	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

Prepared by: Melissa Valles

Comments:

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: **GeoRestoration, Inc.**

Date and Time Received: **2/22/2010 5:51:18 PM**

Project Name: **#0543; AJ Commercial Laundry**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **1002527** Matrix Indoor Air

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:		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 ☑	

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

Client contacted: Date contacted: Contacted by:

Comments:

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-001A	Initial Pressure (psia)	11.7
Client ID	BG-1	Final Pressure (psia)	11.7
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	15	1.0	12	Acrylonitrile	ND	1.0	0.22
tert-Amyl methyl ether (TAME)	ND	1.0	0.42	Benzene	0.52	1.0	0.32
Benzyl chloride	ND	1.0	0.53	Bromodichloromethane	ND	1.0	0.7
Bromoform	ND	1.0	1.1	Bromomethane	ND	1.0	0.39
1,3-Butadiene	ND	1.0	0.22	2-Butanone (MEK)	ND	1.0	30
t-Butyl alcohol (TBA)	ND	1.0	6.2	Carbon Disulfide	ND	1.0	0.32
Carbon Tetrachloride	ND	1.0	0.64	Chlorobenzene	ND	1.0	0.47
Chloroethane	ND	1.0	0.27	Chloroform	ND	1.0	0.49
Chloromethane	ND	1.0	0.21	Cyclohexane	ND	1.0	35
Dibromochloromethane	ND	1.0	0.87	1,2-Dibromo-3-chloropropane	ND	1.0	0.98
1,2-Dibromoethane (EDB)	ND	1.0	0.78	1,2-Dichlorobenzene	ND	1.0	0.61
1,3-Dichlorobenzene	ND	1.0	0.61	1,4-Dichlorobenzene	ND	1.0	0.61
Dichlorodifluoromethane	3.1	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.41
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.41	1,1-Dichloroethene	ND	1.0	0.4
cis-1,2-Dichloroethene	ND	1.0	0.4	trans-1,2-Dichloroethene	ND	1.0	0.4
1,2-Dichloropropane	ND	1.0	0.47	cis-1,3-Dichloropropene	ND	1.0	0.46
trans-1,3-Dichloropropene	ND	1.0	0.46	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.71
Diisopropyl ether (DIPE)	ND	1.0	0.42	1,4-Dioxane	ND	1.0	0.37
Ethyl acetate	ND	1.0	0.37	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.42
Ethylbenzene	ND	1.0	0.44	4-Ethyltoluene	ND	1.0	0.5
Freon 113	ND	1.0	0.78	Heptane	ND	1.0	42
Hexachlorobutadiene	ND	1.0	1.1	Hexane	ND	1.0	36
2-Hexanone	ND	1.0	42	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.42
Methyl-t-butyl ether (MTBE)	ND	1.0	0.37	Methylene chloride	ND	1.0	0.35
Naphthalene	ND	1.0	5.3	Propene	ND	1.0	18
Styrene	ND	1.0	0.43	1,1,1,2-Tetrachloroethane	ND	1.0	0.7
1,1,2,2-Tetrachloroethane	ND	1.0	0.7	Tetrachloroethene	ND	1.0	0.69
Tetrahydrofuran	0.40	1.0	0.3	Toluene	1.1	1.0	0.38
1,2,4-Trichlorobenzene	ND	1.0	0.75	1,1,1-Trichloroethane	ND	1.0	0.55
1,1,2-Trichloroethane	ND	1.0	0.55	Trichloroethene	ND	1.0	0.55
Trichlorofluoromethane	1.8	1.0	0.57	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	36
Vinyl Chloride	ND	1.0	0.26	Xylenes	ND	1.0	1.3

Surrogate Recoveries (%)

%SS1:	100	%SS2:	99
%SS3:	102		

Comments:

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-002A	Initial Pressure (psia)	13.8
Client ID	3-D	Final Pressure (psia)	13.8
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	13	1.0	12	Acrylonitrile	ND	1.0	0.22
tert-Amyl methyl ether (TAME)	ND	1.0	0.42	Benzene	0.50	1.0	0.32
Benzyl chloride	ND	1.0	0.53	Bromodichloromethane	ND	1.0	0.7
Bromoform	ND	1.0	1.1	Bromomethane	ND	1.0	0.39
1,3-Butadiene	ND	1.0	0.22	2-Butanone (MEK)	ND	1.0	30
t-Butyl alcohol (TBA)	ND	1.0	6.2	Carbon Disulfide	ND	1.0	0.32
Carbon Tetrachloride	ND	1.0	0.64	Chlorobenzene	ND	1.0	0.47
Chloroethane	ND	1.0	0.27	Chloroform	ND	1.0	0.49
Chloromethane	0.87	1.0	0.21	Cyclohexane	ND	1.0	35
Dibromochloromethane	ND	1.0	0.87	1,2-Dibromo-3-chloropropane	ND	1.0	0.98
1,2-Dibromoethane (EDB)	ND	1.0	0.78	1,2-Dichlorobenzene	ND	1.0	0.61
1,3-Dichlorobenzene	ND	1.0	0.61	1,4-Dichlorobenzene	ND	1.0	0.61
Dichlorodifluoromethane	3.0	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.41
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.41	1,1-Dichloroethene	ND	1.0	0.4
cis-1,2-Dichloroethene	ND	1.0	0.4	trans-1,2-Dichloroethene	ND	1.0	0.4
1,2-Dichloropropane	ND	1.0	0.47	cis-1,3-Dichloropropene	ND	1.0	0.46
trans-1,3-Dichloropropene	ND	1.0	0.46	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.71
Diisopropyl ether (DIPE)	ND	1.0	0.42	1,4-Dioxane	ND	1.0	0.37
Ethyl acetate	ND	1.0	0.37	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.42
Ethylbenzene	ND	1.0	0.44	4-Ethyltoluene	ND	1.0	0.5
Freon 113	ND	1.0	0.78	Heptane	ND	1.0	42
Hexachlorobutadiene	ND	1.0	1.1	Hexane	ND	1.0	36
2-Hexanone	ND	1.0	42	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.42
Methyl-t-butyl ether (MTBE)	ND	1.0	0.37	Methylene chloride	0.41	1.0	0.35
Naphthalene	ND	1.0	5.3	Propene	ND	1.0	18
Styrene	ND	1.0	0.43	1,1,1,2-Tetrachloroethane	ND	1.0	0.7
1,1,2,2-Tetrachloroethane	ND	1.0	0.7	Tetrachloroethene	2.0	1.0	0.69
Tetrahydrofuran	0.36	1.0	0.3	Toluene	1.3	1.0	0.38
1,2,4-Trichlorobenzene	ND	1.0	0.75	1,1,1-Trichloroethane	ND	1.0	0.55
1,1,2-Trichloroethane	ND	1.0	0.55	Trichloroethene	ND	1.0	0.55
Trichlorofluoromethane	1.3	1.0	0.57	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	36
Vinyl Chloride	ND	1.0	0.26	Xylenes	ND	1.0	1.3

Surrogate Recoveries (%)

%SS1:	99	%SS2:	100
%SS3:	102		

Comments:

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-003A	Initial Pressure (psia)	13.6
Client ID	3-A	Final Pressure (psia)	13.6
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	19	1.0	12	Acrylonitrile	ND	1.0	0.22
tert-Amyl methyl ether (TAME)	ND	1.0	0.42	Benzene	0.51	1.0	0.32
Benzyl chloride	ND	1.0	0.53	Bromodichloromethane	ND	1.0	0.7
Bromoform	ND	1.0	1.1	Bromomethane	ND	1.0	0.39
1,3-Butadiene	ND	1.0	0.22	2-Butanone (MEK)	ND	1.0	30
t-Butyl alcohol (TBA)	ND	1.0	6.2	Carbon Disulfide	ND	1.0	0.32
Carbon Tetrachloride	ND	1.0	0.64	Chlorobenzene	ND	1.0	0.47
Chloroethane	ND	1.0	0.27	Chloroform	ND	1.0	0.49
Chloromethane	0.87	1.0	0.21	Cyclohexane	ND	1.0	35
Dibromochloromethane	ND	1.0	0.87	1,2-Dibromo-3-chloropropane	ND	1.0	0.98
1,2-Dibromoethane (EDB)	ND	1.0	0.78	1,2-Dichlorobenzene	ND	1.0	0.61
1,3-Dichlorobenzene	ND	1.0	0.61	1,4-Dichlorobenzene	ND	1.0	0.61
Dichlorodifluoromethane	3.3	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.41
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.41	1,1-Dichloroethene	ND	1.0	0.4
cis-1,2-Dichloroethene	ND	1.0	0.4	trans-1,2-Dichloroethene	ND	1.0	0.4
1,2-Dichloropropane	ND	1.0	0.47	cis-1,3-Dichloropropene	ND	1.0	0.46
trans-1,3-Dichloropropene	ND	1.0	0.46	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.71
Diisopropyl ether (DIPE)	ND	1.0	0.42	1,4-Dioxane	ND	1.0	0.37
Ethyl acetate	ND	1.0	0.37	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.42
Ethylbenzene	ND	1.0	0.44	4-Ethyltoluene	ND	1.0	0.5
Freon 113	ND	1.0	0.78	Heptane	ND	1.0	42
Hexachlorobutadiene	ND	1.0	1.1	Hexane	ND	1.0	36
2-Hexanone	ND	1.0	42	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.42
Methyl-t-butyl ether (MTBE)	ND	1.0	0.37	Methylene chloride	10	1.0	0.35
Naphthalene	ND	1.0	5.3	Propene	ND	1.0	18
Styrene	ND	1.0	0.43	1,1,1,2-Tetrachloroethane	ND	1.0	0.7
1,1,2,2-Tetrachloroethane	ND	1.0	0.7	Tetrachloroethene	23	1.0	0.69
Tetrahydrofuran	0.91	1.0	0.3	Toluene	1.4	1.0	0.38
1,2,4-Trichlorobenzene	ND	1.0	0.75	1,1,1-Trichloroethane	ND	1.0	0.55
1,1,2-Trichloroethane	ND	1.0	0.55	Trichloroethene	ND	1.0	0.55
Trichlorofluoromethane	2.0	1.0	0.57	1,2,4-Trimethylbenzene	ND	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	36
Vinyl Chloride	ND	1.0	0.26	Xylenes	ND	1.0	1.3

Surrogate Recoveries (%)

%SS1:	97	%SS2:	97
%SS3:	99		

Comments:

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in µg/m³*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-004A	Initial Pressure (psia)	13.2
Client ID	3-C	Final Pressure (psia)	13.2
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	12	Acrylonitrile	ND	1.0	0.22
tert-Amyl methyl ether (TAME)	ND	1.0	0.42	Benzene	0.72	1.0	0.32
Benzyl chloride	ND	1.0	0.53	Bromodichloromethane	ND	1.0	0.7
Bromoform	ND	1.0	1.1	Bromomethane	ND	1.0	0.39
1,3-Butadiene	ND	1.0	0.22	2-Butanone (MEK)	ND	1.0	30
t-Butyl alcohol (TBA)	ND	1.0	6.2	Carbon Disulfide	ND	1.0	0.32
Carbon Tetrachloride	ND	1.0	0.64	Chlorobenzene	ND	1.0	0.47
Chloroethane	ND	1.0	0.27	Chloroform	ND	1.0	0.49
Chloromethane	ND	1.0	0.21	Cyclohexane	ND	1.0	35
Dibromochloromethane	ND	1.0	0.87	1,2-Dibromo-3-chloropropane	ND	1.0	0.98
1,2-Dibromoethane (EDB)	ND	1.0	0.78	1,2-Dichlorobenzene	ND	1.0	0.61
1,3-Dichlorobenzene	ND	1.0	0.61	1,4-Dichlorobenzene	ND	1.0	0.61
Dichlorodifluoromethane	2.7	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.41
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.41	1,1-Dichloroethene	ND	1.0	0.4
cis-1,2-Dichloroethene	0.55	1.0	0.4	trans-1,2-Dichloroethene	ND	1.0	0.4
1,2-Dichloropropane	ND	1.0	0.47	cis-1,3-Dichloropropene	ND	1.0	0.46
trans-1,3-Dichloropropene	ND	1.0	0.46	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.71
Diisopropyl ether (DIPE)	ND	1.0	0.42	1,4-Dioxane	ND	1.0	0.37
Ethyl acetate	ND	1.0	0.37	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.42
Ethylbenzene	ND	1.0	0.44	4-Ethyltoluene	ND	1.0	0.5
Freon 113	ND	1.0	0.78	Heptane	ND	1.0	42
Hexachlorobutadiene	ND	1.0	1.1	Hexane	ND	1.0	36
2-Hexanone	ND	1.0	42	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.42
Methyl-t-butyl ether (MTBE)	ND	1.0	0.37	Methylene chloride	0.64	1.0	0.35
Naphthalene	ND	1.0	5.3	Propene	ND	1.0	18
Styrene	ND	1.0	0.43	1,1,1,2-Tetrachloroethane	ND	1.0	0.7
1,1,2,2-Tetrachloroethane	ND	1.0	0.7	Tetrachloroethene	120	1.0	0.69
Tetrahydrofuran	ND	1.0	0.3	Toluene	1.3	1.0	0.38
1,2,4-Trichlorobenzene	ND	1.0	0.75	1,1,1-Trichloroethane	ND	1.0	0.55
1,1,2-Trichloroethane	ND	1.0	0.55	Trichloroethene	ND	1.0	0.55
Trichlorofluoromethane	1.7	1.0	0.57	1,2,4-Trimethylbenzene	0.73	1.0	0.5
1,3,5-Trimethylbenzene	ND	1.0	0.5	Vinyl Acetate	ND	1.0	36
Vinyl Chloride	ND	1.0	0.26	Xylenes	ND	1.0	1.3

Surrogate Recoveries (%)

%SS1:	98	%SS2:	99
%SS3:	100		

Comments:

*vapor samples are reported in µg/m³.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Telephone: 877-252-9262 Fax: 925-252-9269

GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-001A	Initial Pressure (psia)	11.7
Client ID	BG-1	Final Pressure (psia)	11.7
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	6.5	1.0	5.0	Acrylonitrile	ND	1.0	0.1
tert-Amyl methyl ether (TAME)	ND	1.0	0.1	Benzene	0.16	1.0	0.1
Benzyl chloride	ND	1.0	0.1	Bromodichloromethane	ND	1.0	0.1
Bromoform	ND	1.0	0.1	Bromomethane	ND	1.0	0.1
1,3-Butadiene	ND	1.0	0.1	2-Butanone (MEK)	ND	1.0	10
t-Butyl alcohol (TBA)	ND	1.0	2.0	Carbon Disulfide	ND	1.0	0.1
Carbon Tetrachloride	ND	1.0	0.1	Chlorobenzene	ND	1.0	0.1
Chloroethane	ND	1.0	0.1	Chloroform	ND	1.0	0.1
Chloromethane	ND	1.0	0.1	Cyclohexane	ND	1.0	10
Dibromochloromethane	ND	1.0	0.1	1,2-Dibromo-3-chloropropane	ND	1.0	0.1
1,2-Dibromoethane (EDB)	ND	1.0	0.1	1,2-Dichlorobenzene	ND	1.0	0.1
1,3-Dichlorobenzene	ND	1.0	0.1	1,4-Dichlorobenzene	ND	1.0	0.1
Dichlorodifluoromethane	0.61	1.0	0.1	1,1-Dichloroethane	ND	1.0	0.1
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.1	1,1-Dichloroethene	ND	1.0	0.1
cis-1,2-Dichloroethene	ND	1.0	0.1	trans-1,2-Dichloroethene	ND	1.0	0.1
1,2-Dichloropropane	ND	1.0	0.1	cis-1,3-Dichloropropene	ND	1.0	0.1
trans-1,3-Dichloropropene	ND	1.0	0.1	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.1
Diisopropyl ether (DIPE)	ND	1.0	0.1	1,4-Dioxane	ND	1.0	0.1
Ethyl acetate	ND	1.0	0.1	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.1
Ethylbenzene	ND	1.0	0.1	4-Ethyltoluene	ND	1.0	0.1
Freon 113	ND	1.0	0.1	Heptane	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.1	Hexane	ND	1.0	10
2-Hexanone	ND	1.0	10	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.1
Methyl-t-butyl ether (MTBE)	ND	1.0	0.1	Methylene chloride	ND	1.0	0.1
Naphthalene	ND	1.0	1.0	Propene	ND	1.0	10
Styrene	ND	1.0	0.1	1,1,1,2-Tetrachloroethane	ND	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	1.0	0.1	Tetrachloroethene	ND	1.0	0.1
Tetrahydrofuran	0.13	1.0	0.1	Toluene	0.29	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.1	1,1,1-Trichloroethane	ND	1.0	0.1
1,1,2-Trichloroethane	ND	1.0	0.1	Trichloroethene	ND	1.0	0.1
Trichlorofluoromethane	0.32	1.0	0.1	1,2,4-Trimethylbenzene	ND	1.0	0.1
1,3,5-Trimethylbenzene	ND	1.0	0.1	Vinyl Acetate	ND	1.0	10
Vinyl Chloride	ND	1.0	0.1	Xylenes	ND	1.0	0.3

Surrogate Recoveries (%)

%SS1:	100	%SS2:	99
%SS3:	102		

Comments:

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-002A	Initial Pressure (psia)	13.8
Client ID	3-D	Final Pressure (psia)	13.8
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	5.4	1.0	5.0	Acrylonitrile	ND	1.0	0.1
tert-Amyl methyl ether (TAME)	ND	1.0	0.1	Benzene	0.15	1.0	0.1
Benzyl chloride	ND	1.0	0.1	Bromodichloromethane	ND	1.0	0.1
Bromoform	ND	1.0	0.1	Bromomethane	ND	1.0	0.1
1,3-Butadiene	ND	1.0	0.1	2-Butanone (MEK)	ND	1.0	10
t-Butyl alcohol (TBA)	ND	1.0	2.0	Carbon Disulfide	ND	1.0	0.1
Carbon Tetrachloride	ND	1.0	0.1	Chlorobenzene	ND	1.0	0.1
Chloroethane	ND	1.0	0.1	Chloroform	ND	1.0	0.1
Chloromethane	0.41	1.0	0.1	Cyclohexane	ND	1.0	10
Dibromochloromethane	ND	1.0	0.1	1,2-Dibromo-3-chloropropane	ND	1.0	0.1
1,2-Dibromoethane (EDB)	ND	1.0	0.1	1,2-Dichlorobenzene	ND	1.0	0.1
1,3-Dichlorobenzene	ND	1.0	0.1	1,4-Dichlorobenzene	ND	1.0	0.1
Dichlorodifluoromethane	0.61	1.0	0.1	1,1-Dichloroethane	ND	1.0	0.1
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.1	1,1-Dichloroethene	ND	1.0	0.1
cis-1,2-Dichloroethene	ND	1.0	0.1	trans-1,2-Dichloroethene	ND	1.0	0.1
1,2-Dichloropropane	ND	1.0	0.1	cis-1,3-Dichloropropene	ND	1.0	0.1
trans-1,3-Dichloropropene	ND	1.0	0.1	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.1
Diisopropyl ether (DIPE)	ND	1.0	0.1	1,4-Dioxane	ND	1.0	0.1
Ethyl acetate	ND	1.0	0.1	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.1
Ethylbenzene	ND	1.0	0.1	4-Ethyltoluene	ND	1.0	0.1
Freon 113	ND	1.0	0.1	Heptane	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.1	Hexane	ND	1.0	10
2-Hexanone	ND	1.0	10	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.1
Methyl-t-butyl ether (MTBE)	ND	1.0	0.1	Methylene chloride	0.12	1.0	0.1
Naphthalene	ND	1.0	1.0	Propene	ND	1.0	10
Styrene	ND	1.0	0.1	1,1,1,2-Tetrachloroethane	ND	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	1.0	0.1	Tetrachloroethene	0.29	1.0	0.1
Tetrahydrofuran	0.12	1.0	0.1	Toluene	0.33	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.1	1,1,1-Trichloroethane	ND	1.0	0.1
1,1,2-Trichloroethane	ND	1.0	0.1	Trichloroethene	ND	1.0	0.1
Trichlorofluoromethane	0.22	1.0	0.1	1,2,4-Trimethylbenzene	ND	1.0	0.1
1,3,5-Trimethylbenzene	ND	1.0	0.1	Vinyl Acetate	ND	1.0	10
Vinyl Chloride	ND	1.0	0.1	Xylenes	ND	1.0	0.3

Surrogate Recoveries (%)

%SS1:	99	%SS2:	100
%SS3:	102		

Comments:

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-003A	Initial Pressure (psia)	13.6
Client ID	3-A	Final Pressure (psia)	13.6
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	7.8	1.0	5.0	Acrylonitrile	ND	1.0	0.1
tert-Amyl methyl ether (TAME)	ND	1.0	0.1	Benzene	0.16	1.0	0.1
Benzyl chloride	ND	1.0	0.1	Bromodichloromethane	ND	1.0	0.1
Bromoform	ND	1.0	0.1	Bromomethane	ND	1.0	0.1
1,3-Butadiene	ND	1.0	0.1	2-Butanone (MEK)	ND	1.0	10
t-Butyl alcohol (TBA)	ND	1.0	2.0	Carbon Disulfide	ND	1.0	0.1
Carbon Tetrachloride	ND	1.0	0.1	Chlorobenzene	ND	1.0	0.1
Chloroethane	ND	1.0	0.1	Chloroform	ND	1.0	0.1
Chloromethane	0.41	1.0	0.1	Cyclohexane	ND	1.0	10
Dibromochloromethane	ND	1.0	0.1	1,2-Dibromo-3-chloropropane	ND	1.0	0.1
1,2-Dibromoethane (EDB)	ND	1.0	0.1	1,2-Dichlorobenzene	ND	1.0	0.1
1,3-Dichlorobenzene	ND	1.0	0.1	1,4-Dichlorobenzene	ND	1.0	0.1
Dichlorodifluoromethane	0.66	1.0	0.1	1,1-Dichloroethane	ND	1.0	0.1
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.1	1,1-Dichloroethene	ND	1.0	0.1
cis-1,2-Dichloroethene	ND	1.0	0.1	trans-1,2-Dichloroethene	ND	1.0	0.1
1,2-Dichloropropane	ND	1.0	0.1	cis-1,3-Dichloropropene	ND	1.0	0.1
trans-1,3-Dichloropropene	ND	1.0	0.1	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.1
Diisopropyl ether (DIPE)	ND	1.0	0.1	1,4-Dioxane	ND	1.0	0.1
Ethyl acetate	ND	1.0	0.1	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.1
Ethylbenzene	ND	1.0	0.1	4-Ethyltoluene	ND	1.0	0.1
Freon 113	ND	1.0	0.1	Heptane	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.1	Hexane	ND	1.0	10
2-Hexanone	ND	1.0	10	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.1
Methyl-t-butyl ether (MTBE)	ND	1.0	0.1	Methylene chloride	2.9	1.0	0.1
Naphthalene	ND	1.0	1.0	Propene	ND	1.0	10
Styrene	ND	1.0	0.1	1,1,1,2-Tetrachloroethane	ND	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	1.0	0.1	Tetrachloroethene	3.3	1.0	0.1
Tetrahydrofuran	0.30	1.0	0.1	Toluene	0.37	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.1	1,1,1-Trichloroethane	ND	1.0	0.1
1,1,2-Trichloroethane	ND	1.0	0.1	Trichloroethene	ND	1.0	0.1
Trichlorofluoromethane	0.35	1.0	0.1	1,2,4-Trimethylbenzene	ND	1.0	0.1
1,3,5-Trimethylbenzene	ND	1.0	0.1	Vinyl Acetate	ND	1.0	10
Vinyl Chloride	ND	1.0	0.1	Xylenes	ND	1.0	0.3

Surrogate Recoveries (%)

%SS1:	97	%SS2:	97
%SS3:	99		

Comments:

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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GeoRestoration, Inc.	Client Project ID: #0543; AJ Commercial Laundry	Date Sampled: 02/21/10
		Date Received: 02/22/10
15940 Concord Circle	Client Contact: Roger Dockter	Date Extracted: 02/23/10
Morgan Hill, CA 95037	Client P.O.:	Date Analyzed: 02/23/10

Volatile Organic Compounds in nL/L*

Extraction Method: TO15 Analytical Method: TO15 Work Order: 1002527

Lab ID	1002527-004A	Initial Pressure (psia)	13.2
Client ID	3-C	Final Pressure (psia)	13.2
Matrix	Indoor Air		

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrylonitrile	ND	1.0	0.1
tert-Amyl methyl ether (TAME)	ND	1.0	0.1	Benzene	0.23	1.0	0.1
Benzyl chloride	ND	1.0	0.1	Bromodichloromethane	ND	1.0	0.1
Bromoform	ND	1.0	0.1	Bromomethane	ND	1.0	0.1
1,3-Butadiene	ND	1.0	0.1	2-Butanone (MEK)	ND	1.0	10
t-Butyl alcohol (TBA)	ND	1.0	2.0	Carbon Disulfide	ND	1.0	0.1
Carbon Tetrachloride	ND	1.0	0.1	Chlorobenzene	ND	1.0	0.1
Chloroethane	ND	1.0	0.1	Chloroform	ND	1.0	0.1
Chloromethane	ND	1.0	0.1	Cyclohexane	ND	1.0	10
Dibromochloromethane	ND	1.0	0.1	1,2-Dibromo-3-chloropropane	ND	1.0	0.1
1,2-Dibromoethane (EDB)	ND	1.0	0.1	1,2-Dichlorobenzene	ND	1.0	0.1
1,3-Dichlorobenzene	ND	1.0	0.1	1,4-Dichlorobenzene	ND	1.0	0.1
Dichlorodifluoromethane	0.55	1.0	0.1	1,1-Dichloroethane	ND	1.0	0.1
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.1	1,1-Dichloroethene	ND	1.0	0.1
cis-1,2-Dichloroethene	0.14	1.0	0.1	trans-1,2-Dichloroethene	ND	1.0	0.1
1,2-Dichloropropane	ND	1.0	0.1	cis-1,3-Dichloropropene	ND	1.0	0.1
trans-1,3-Dichloropropene	ND	1.0	0.1	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	1.0	0.1
Diisopropyl ether (DIPE)	ND	1.0	0.1	1,4-Dioxane	ND	1.0	0.1
Ethyl acetate	ND	1.0	0.1	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.1
Ethylbenzene	ND	1.0	0.1	4-Ethyltoluene	ND	1.0	0.1
Freon 113	ND	1.0	0.1	Heptane	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.1	Hexane	ND	1.0	10
2-Hexanone	ND	1.0	10	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.1
Methyl-t-butyl ether (MTBE)	ND	1.0	0.1	Methylene chloride	0.18	1.0	0.1
Naphthalene	ND	1.0	1.0	Propene	ND	1.0	10
Styrene	ND	1.0	0.1	1,1,1,2-Tetrachloroethane	ND	1.0	0.1
1,1,2,2-Tetrachloroethane	ND	1.0	0.1	Tetrachloroethene	17	1.0	0.1
Tetrahydrofuran	ND	1.0	0.1	Toluene	0.34	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.1	1,1,1-Trichloroethane	ND	1.0	0.1
1,1,2-Trichloroethane	ND	1.0	0.1	Trichloroethene	ND	1.0	0.1
Trichlorofluoromethane	0.30	1.0	0.1	1,2,4-Trimethylbenzene	0.15	1.0	0.1
1,3,5-Trimethylbenzene	ND	1.0	0.1	Vinyl Acetate	ND	1.0	10
Vinyl Chloride	ND	1.0	0.1	Xylenes	ND	1.0	0.3

Surrogate Recoveries (%)

%SS1:	98	%SS2:	99
%SS3:	100		

Comments:

*vapor samples are reported in nL/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Indoor Air QC Matrix: Soil Vapor BatchID: 48802 WorkOrder 1002527

EPA Method TO15 **Extraction TO15** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acrylonitrile	N/A	25	N/A	N/A	N/A	114	115	0.0245	N/A	N/A	70 - 130	30
tert-Amyl methyl ether (TAME)	N/A	25	N/A	N/A	N/A	111	110	0.851	N/A	N/A	70 - 130	30
Benzene	N/A	25	N/A	N/A	N/A	110	109	0.573	N/A	N/A	70 - 130	30
Benzyl chloride	N/A	25	N/A	N/A	N/A	119	119	0	N/A	N/A	70 - 130	30
Bromodichloromethane	N/A	25	N/A	N/A	N/A	117	116	0.807	N/A	N/A	70 - 130	30
Bromoform	N/A	25	N/A	N/A	N/A	117	119	1.30	N/A	N/A	70 - 130	30
t-Butyl alcohol (TBA)	N/A	25	N/A	N/A	N/A	89	88.4	0.670	N/A	N/A	70 - 130	30
Carbon Disulfide	N/A	25	N/A	N/A	N/A	107	107	0	N/A	N/A	70 - 130	30
Carbon Tetrachloride	N/A	25	N/A	N/A	N/A	122	121	0.947	N/A	N/A	70 - 130	30
Chlorobenzene	N/A	25	N/A	N/A	N/A	110	111	1.06	N/A	N/A	70 - 130	30
Chloroethane	N/A	25	N/A	N/A	N/A	106	107	0.884	N/A	N/A	70 - 130	30
Chloroform	N/A	25	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
Chloromethane	N/A	25	N/A	N/A	N/A	90.6	88.3	2.66	N/A	N/A	70 - 130	30
Dibromochloromethane	N/A	25	N/A	N/A	N/A	122	123	0.502	N/A	N/A	70 - 130	30
1,2-Dibromo-3-chloropropane	N/A	25	N/A	N/A	N/A	106	107	0.721	N/A	N/A	70 - 130	30
1,2-Dibromoethane (EDB)	N/A	25	N/A	N/A	N/A	120	119	0.573	N/A	N/A	70 - 130	30
1,2-Dichlorobenzene	N/A	25	N/A	N/A	N/A	100	101	1.15	N/A	N/A	70 - 130	30
1,3-Dichlorobenzene	N/A	25	N/A	N/A	N/A	118	119	1.24	N/A	N/A	70 - 130	30
1,4-Dichlorobenzene	N/A	25	N/A	N/A	N/A	101	102	1.09	N/A	N/A	70 - 130	30
1,1-Dichloroethane	N/A	25	N/A	N/A	N/A	111	111	0	N/A	N/A	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	N/A	25	N/A	N/A	N/A	113	113	0	N/A	N/A	70 - 130	30
1,1-Dichloroethene	N/A	25	N/A	N/A	N/A	110	111	0.432	N/A	N/A	70 - 130	30
cis-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	117	117	0	N/A	N/A	70 - 130	30
trans-1,2-Dichloroethene	N/A	25	N/A	N/A	N/A	117	116	0.339	N/A	N/A	70 - 130	30
1,2-Dichloropropane	N/A	25	N/A	N/A	N/A	102	101	0.480	N/A	N/A	70 - 130	30
cis-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	105	106	0.800	N/A	N/A	70 - 130	30
trans-1,3-Dichloropropene	N/A	25	N/A	N/A	N/A	104	105	1.26	N/A	N/A	70 - 130	30
1,2-Dichloro-1,1,2,2-tetrafluoroetha	N/A	25	N/A	N/A	N/A	99.9	97.8	2.15	N/A	N/A	70 - 130	30
Diisopropyl ether (DIPE)	N/A	25	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
1,4-Dioxane	N/A	25	N/A	N/A	N/A	103	104	0.129	N/A	N/A	70 - 130	30
Ethyl acetate	N/A	25	N/A	N/A	N/A	115	115	0	N/A	N/A	70 - 130	30

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Indoor Air QC Matrix: Soil Vapor BatchID: 48802 WorkOrder 1002527

EPA Method TO15 **Extraction TO15** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Ethyl tert-butyl ether (ETBE)	N/A	25	N/A	N/A	N/A	113	112	0.693	N/A	N/A	70 - 130	30
Ethylbenzene	N/A	25	N/A	N/A	N/A	114	114	0	N/A	N/A	70 - 130	30
Freon 113	N/A	25	N/A	N/A	N/A	108	107	0.565	N/A	N/A	70 - 130	30
Hexachlorobutadiene	N/A	25	N/A	N/A	N/A	85.2	87.7	2.88	N/A	N/A	70 - 130	30
4-Methyl-2-pentanone (MIBK)	N/A	25	N/A	N/A	N/A	115	115	0	N/A	N/A	70 - 130	30
Methyl-t-butyl ether (MTBE)	N/A	25	N/A	N/A	N/A	112	112	0	N/A	N/A	70 - 130	30
Methylene chloride	N/A	25	N/A	N/A	N/A	97.9	98.1	0.178	N/A	N/A	70 - 130	30
Naphthalene	N/A	25	N/A	N/A	N/A	93.8	97.3	3.71	N/A	N/A	70 - 130	30
Styrene	N/A	25	N/A	N/A	N/A	117	118	0.557	N/A	N/A	70 - 130	30
1,1,1,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	116	117	0.794	N/A	N/A	70 - 130	30
1,1,2,2-Tetrachloroethane	N/A	25	N/A	N/A	N/A	112	113	0.481	N/A	N/A	70 - 130	30
Tetrachloroethene	N/A	25	N/A	N/A	N/A	111	111	0	N/A	N/A	70 - 130	30
Tetrahydrofuran	N/A	25	N/A	N/A	N/A	103	103	0	N/A	N/A	70 - 130	30
Toluene	N/A	25	N/A	N/A	N/A	111	112	0.793	N/A	N/A	70 - 130	30
1,2,4-Trichlorobenzene	N/A	25	N/A	N/A	N/A	89.8	93	3.52	N/A	N/A	70 - 130	30
1,1,1-Trichloroethane	N/A	25	N/A	N/A	N/A	114	114	0	N/A	N/A	70 - 130	30
1,1,2-Trichloroethane	N/A	25	N/A	N/A	N/A	114	114	0	N/A	N/A	70 - 130	30
Trichloroethene	N/A	25	N/A	N/A	N/A	107	106	1.04	N/A	N/A	70 - 130	30
1,2,4-Trimethylbenzene	N/A	25	N/A	N/A	N/A	109	111	0.958	N/A	N/A	70 - 130	30
1,3,5-Trimethylbenzene	N/A	25	N/A	N/A	N/A	105	107	1.91	N/A	N/A	70 - 130	30
Vinyl Chloride	N/A	25	N/A	N/A	N/A	100	85	16.6	N/A	N/A	70 - 130	30
%SS1:	N/A	500	N/A	N/A	N/A	102	102	0	N/A	N/A	70 - 130	30
%SS2:	N/A	500	N/A	N/A	N/A	102	103	1.09	N/A	N/A	70 - 130	30
%SS3:	N/A	500	N/A	N/A	N/A	101	101	0	N/A	N/A	70 - 130	30

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

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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Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR TO15

W.O. Sample Matrix: Indoor Air QC Matrix: Soil Vapor BatchID: 48802 WorkOrder 1002527

EPA Method TO15 **Extraction TO15** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD

BATCH 48802 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002527-001A	02/21/10 4:45 PM	02/23/10	02/23/10 12:13 AM	1002527-002A	02/21/10 5:00 PM	02/23/10	02/23/10 1:15 AM
1002527-003A	02/21/10 5:05 PM	02/23/10	02/23/10 2:11 AM	1002527-004A	02/21/10 5:10 PM	02/23/10	02/23/10 3:08 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).

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_____ QA/QC Officer

APPENDIX B

Remediation System Data Summary

AJ Commercial Laundry Extration Data

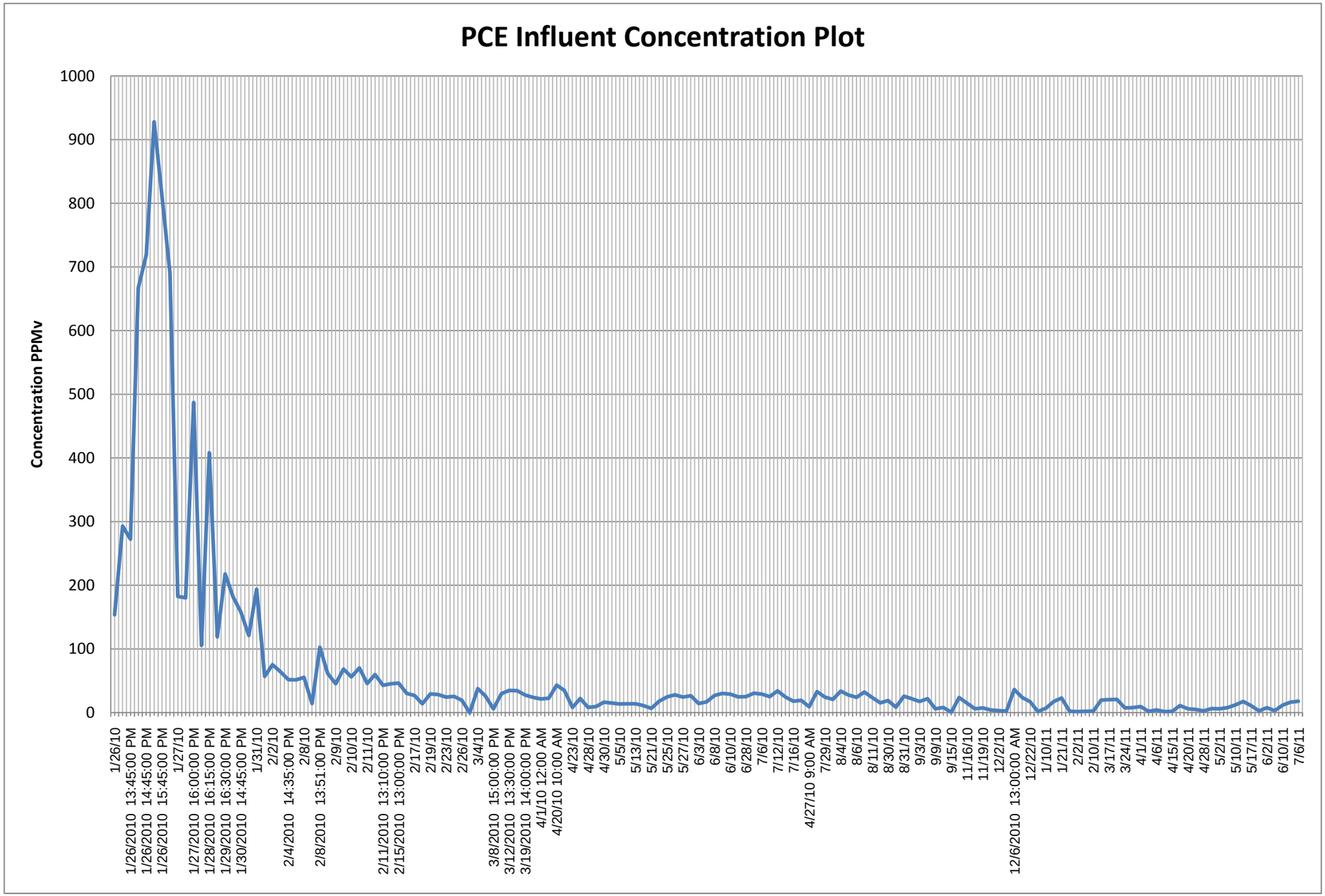
Date	Time	Meter PPMv	CFM	Converted PPMV	Avg PPMV	PCE lbs/day	PCE gal/day	Days	PCE gals	Hr Meter	Water meter
1/26/10	1145	265	300	153.7		0.00	0.00				
1/26/10	1315	505	300	292.9	223.3	41.53	3.05	0.06	0.192	17889	
1/26/10	1345	470	300	272.6	282.75	52.59	3.87	0.02	0.081		
1/26/10	1415	1150	300	667	469.8	87.38	6.43	0.02	0.135		
1/26/10	1445	1240	300	719.2	693.1	128.92	9.48	0.02	0.199		
1/26/10	1515	1600	300	928	823.6	153.19	11.26	0.02	0.237		
1/26/10	1545	1400	300	812	870	161.82	11.90	0.02	0.250		
1/26/10	1615	1190	300	690.2	751.1	139.70	10.27	0.02	0.216		
1/27/10	840	315	300	182.7	436.45	81.18	5.97	0.69	4.143		
1/27/10	1100	311	300	180.38	181.54	33.77	2.48	0.11	0.276		
1/27/10	1600	840	300	487.2	333.79	62.08	4.57	0.21	0.950		
1/28/10	820	182	300	105.56	296.38	55.13	4.05	0.68	2.756		
1/28/10	1615	704	300	408.32	256.94	47.79	3.51	0.33	1.170	17941	
1/29/10	830	205	300	118.9	263.61	49.03	3.61	0.69	2.502		
1/29/10	1630	376	300	218.08	168.49	31.34	2.30	0.33	0.767		
1/30/10	900	314	300	182.12	200.1	37.22	2.74	0.65	1.768	17982	
1/30/10	1445	272	300	157.76	169.94	31.61	2.32	0.24	0.558		
1/31/10	915	209	300	121.22	139.49	25.95	1.91	0.77	1.471		
1/31/10	1700	334	300	193.72	157.47	29.29	2.15	0.34	0.741		
2/1/10	820	98	300	56.84	125.28	23.30	1.71	0.64	1.093	18031	
2/2/10	1135	130	300	75.4	66.12	12.30	0.90	0.61	0.553		
2/3/10	840	111	300	64.38	69.89	13.00	0.96	0.86	0.820		
2/4/10	1435	89.4	295	51.852	58.116	10.63	0.78	0.79	0.619	18110	
2/5/10	1100	89.1	295	51.678	51.765	9.47	0.70	0.85	0.595	18131	
2/8/10	1045	95.7	295	55.506	53.592	9.80	0.72	2.99	2.155		
2/8/10	1350	25	145	14.5	35.003	3.15	0.23	0.13	0.029		
2/8/10	1351	177	165	102.66	58.58	5.99	0.44	0.00	0.000		
2/8/10	1600	106	165	61.48	82.07	8.40	0.62	0.08	0.051	18210	6299165
2/9/10	1000	78	165	45.24	53.36	5.46	0.40	0.75	0.301	18228	
2/9/10	1250	118	200	68.44	56.84	7.05	0.52	0.10	0.054	18230	
2/10/10	1030	97	200	56.26	62.35	7.73	0.57	0.40	0.225	18240	6300420
2/11/10	1000	121	195	70.18	63.22	7.64	0.56	0.17	0.096	18264	6301900
2/11/10	1225	79	145	45.82	51.04	4.59	0.34	0.10	0.034		
2/11/10	1255	103	150	59.74	52.78	4.91	0.36	0.02	0.008	18266	

2/11/10	1400	73.7	320	42.746	51.243	10.17	0.75	0.08	0.062	18268	
2/12/10	950	78.3	320	45.414	44.08	8.75	0.64	0.83	0.536	18288	
2/15/10	1300	80	320	46.4	45.907	9.11	0.67	1.13	0.753		
2/16/10	830	52.3	320	30.334	38.367	7.61	0.56	0.85	0.476	18384	6301900
2/17/10	830	46.4	320	26.912	28.623	5.68	0.42	1.00	0.418		6301900
2/18/10	1110	24.1	320	13.978	20.445	4.06	0.30	1.10	0.328	18435	6301900
2/19/10	1000	51	320	29.58	21.779	4.32	0.32	0.42	0.133	18445	
2/21/10	840	49.3	320	28.594	29.087	5.77	0.42	2.00	0.849	18493	
2/23/10	817	42.3	320	24.534	26.564	5.27	0.39	2.00	0.775	18541	
2/25/10	812	43.9	320	25.462	24.998	4.96	0.36	2.00	0.729	18589	
2/26/10	805	33.5	320	19.43	22.446	4.45	0.33	1.00	0.327	18613	
				0		0.00	0.00		0.000		
3/4/10	930	65.1	320	37.758	18.879	3.75	0.28	2.17	0.598	18665	
3/8/10	1445	44.6	320	25.868	31.813	6.31	0.46	4.22	1.958		6302270
3/8/10	1500	10.5	190	6.09	15.979	1.88	0.14	0.01	0.001	18765	
3/10/10	1245	51.4	220	29.812	17.951	2.45	0.18	1.96	0.353	18812	6306330
3/12/10	1330	60	240	34.8	32.306	4.81	0.35	2.04	0.721	18861	6311450
3/18/10	1400	59.7	200	34.626	34.713	4.30	0.32	0.29	0.092	18868	6312110
3/19/10	1400	48	320	27.84	31.233	6.20	0.46	1.00	0.456	18892	6314450
3/22/10	840	41.4	320	24.012	25.926	5.14	0.38	2.79	1.055	18959	6314450
4/1/10	1200	37.0	320	21.46	22.736	4.51	0.33	0.04	0.014	18960	
4/1/10	1300	38.9	320	22.562	22.011	4.37	0.32	0.40	0.128		
4/20/10	1000	74.6	320	43.268	32.915	6.53	0.48	6.00	2.881	19094	
4/21/10	1000	60.4	320	35.032	39.15	7.77	0.57	1.00	0.571	19118	
4/23/10	830	14	320	8.12	21.576	4.28	0.31	1.92	0.604	19164	
4/27/10	830	38.2	320	22.156	15.138	3.00	0.22	4.06	0.897	19261.5	
4/28/10	1215	14.4	320	8.352	15.254	3.03	0.22	0.04	0.009	19262.4	
4/28/10	1530	16.4	320	9.512	8.932	1.77	0.13	0.14	0.018	19265.8	
4/30/10	1130	28.4	320	16.472	12.992	2.58	0.19	1.84	0.349	19310	
5/3/10	1630	26	320	15.08	15.776	3.13	0.23	1.17	0.269	19338	
5/5/10	1500	23.3	320	13.514	14.297	2.84	0.21	1.96	0.409	19385	
5/11/10	1630	23.8	320	13.804	13.659	2.71	0.20	6.08	1.212	19531.7	
5/13/2010	1600	24.3	320	14.094	13.949	2.77	0.20	1.96	0.399	19579	6314910
5/18/2010	1630	19.4	320	11.252	12.673	2.51	0.18		0.000		6315920
5/21/2010	930	11.7	320	6.786	9.019	1.79	0.13	2.25	0.296	19633	6328840
5/24/10	830	31	240	17.98	12.383	1.84	0.14	0.88	0.119	19654	6333920
5/25/10	830	42.8	230	24.824	21.402	3.05	0.22	0.13	0.029	19657	
5/25/10	1230	48.2	210	27.956	26.39	3.44	0.25	0.16	0.040		

5/27/10	830	42.4	230	24.592	26.274	3.75	0.28	1.83	0.504	19705	
5/28/10	1245	45.8	230	26.564	25.578	3.65	0.27	1.20	0.322	19733	6355200
6/3/10	930	24.6	200	14.268	20.416	2.53	0.19	3.00	0.558	21337	6364670
6/4/10	1415	28.9	230	16.762	15.515	2.21	0.16	1.25	0.203	21367	6370420
6/8/10	900	46.3	250	26.854	21.808	3.38	0.25	2.38	0.590	21424	6383770
6/9/10	830	52.2	240	30.276	28.565	4.25	0.31	1.00	0.313	21448	6388500
6/10/10	1045	50	245	29	29.638	4.50	0.33	1.08	0.359	21474	6393600
6/18/10	830	42.8	260	24.824	26.912	4.34	0.32	7.04	2.246	21643	6424250
6/28/10	1330	43.4	260	25.172	24.998	4.03	0.30	8.21	2.432	21840	6456600
7/2/10	830	52.7	250	30.566	27.869	4.32	0.32	3.79	1.204	21931	6473690
7/6/10	1300	50	250	29	29.783	4.62	0.34	4.17	1.414	22031	6491540
7/7/10	830	43.5	250	25.23	27.115	4.20	0.31	0.79	0.245	22050	6495050
7/12/10	900	58.9	320	34.162	29.696	5.89	0.43	3.08	1.336	22124	6496600
7/13/10	1045	42.1	320	24.418	29.29	5.81	0.43	1.08	0.463	22150	NA
7/16/10	830	31.2	320	18.096	21.257	4.22	0.31	2.88	0.892	22219	NA
7/21/10	900	33.2	320	19.256	18.676	3.71	0.27	5.04	1.374	22340	NA
7/27/10	900	16	320	9.28	14.268	2.83	0.21	6.00	1.249	22484	
7/27/10	1000	57.3	220	33.234	21.257	2.90	0.21	0.04	0.009	22485	6496600
7/29/10	830	41.9	230	24.302	28.768	4.10	0.30	1.92	0.578	22531	6505400
8/3/10	830	35.8	230	20.764	22.533	3.21	0.24	4.96	1.171	22650	6524700
8/4/10	1200	58.5	250	33.93	27.347	4.24	0.31	1.13	0.351	22677	6528850
8/5/10	730	47.9	240	27.782	30.856	4.59	0.34	0.83	0.281	22697	6535170
8/6/10	800	41.4	230	24.012	25.897	3.69	0.27	1.04	0.283	22722	6542040
8/6/10	830	55.6	250	32.248	28.13	4.36	0.32	0.00	0.000	22722	6542040
8/11/10	830	41.2	230	23.896	28.072	4.00	0.29	3.75	1.104	22812	6565910
8/23/10	830	26.6	250	15.428	19.662	3.05	0.22	11.54	2.586	23089	6636890
8/30/10	900	33.1	250	19.198	17.313	2.68	0.20	5.21	1.028	23214	6671410
8/31/10	830	14.5	250	8.41	13.804	2.14	0.16	1.00	0.157	23238	6677640
8/31/10	930	44.6	350	25.868	17.139	3.72	0.27	0.04	0.011	23239	NA
9/1/10	830	37.6	320	21.808	23.838	4.73	0.35	0.92	0.319	23261	NA
9/3/10	900	30.2	320	17.516	19.662	3.90	0.29	1.63	0.466	23300	NA
9/3/10	930	37.6	280	21.808	19.662	3.41	0.25	0.21	0.052	23305	NA
9/9/10	830	10.7	270	6.206	14.007	2.34	0.17	6.17	1.063	23453	NA
9/9/10	845	14.4	320	8.352	7.279	1.44	0.11	0.00	0.000	23453	NA
9/15/10	1300	1.2	290	0.696	4.524	0.81	0.06	5.21	0.312	23578	NA
11/15/10	1430	41.0	250	23.78	12.238	1.90	0.14	0.00	0.000	23578	6677650
11/16/10	830	25.8	285	14.964	19.372	3.42	0.25	0.79	0.199	23597	6677760
11/19/10	1130	10.4	285	6.032	10.498	1.85	0.14	3.13	0.426	23672	6678340

11/19/10	1230	12.6	330	7.308	6.67	1.36	0.10	0.04	0.004	23673	
11/30/10	1445	7	300	4.06	5.684	1.06	0.08	1.42	0.110	23707	6678830
12/2/10	1330	5.3	300	3.074	3.567	0.66	0.05	1.96	0.096	23754	6679200
12/6/10	1000	4.1	300	2.378	2.726	0.51	0.04	3.83	0.143	23846	6680390
12/6/10	1300	62.7	160	36.366	19.372	1.92	0.14	0.08	0.012	23848	
12/16/10	1550	40.8	150	23.664	30.015	2.79	0.21	2.50	0.513	23908	6692000
12/22/10	1520	29.5	150	17.11	20.387	1.90	0.14	5.83	0.813	24048	6719580
1/4/10	1400	3.2	150	1.856	9.483	0.88	0.06	5.54	0.359	24181	6743540
1/10/11	800	12.4	150	7.192	4.524	0.42	0.03	4.75	0.147	24295	6765100
1/17/11	1030	30.1	150	17.458	12.325	1.15	0.08	6.04	0.509	24440	6789700
1/21/11	1245	39.4	150	22.852	20.155	1.87	0.14	4.04	0.557	24537	6806510
1/28/11	1230	3.5	150	2.03	12.441	1.16	0.09	7.00	0.596	24705	6858265
2/2/11	1320	3	150	1.74	1.885	0.18	0.01	5.00	0.064	24825	
2/7/11	1130	3.6	150	2.088	1.914	0.18	0.01	5.00	0.065	24945	
3/5/11	830	4	150	2.32	2.204	0.20	0.02	26.50	0.399	25581	
3/16/11	1340	34.1	150	19.778	11.049	1.03	0.08	0.00	0.000	25581	6858265
3/17/11	830	35	150	20.3	20.039	1.86	0.14	0.79	0.108	25600	6865300
3/21/11	1430	35.8	150	20.764	20.532	1.91	0.14	4.25	0.597	25702	6891800
3/24/11	1300	13	150	7.54	14.152	1.32	0.10	2.88	0.278	25771	6912250
3/29/11	1300	13.3	150	7.714	7.627	0.71	0.05	3.33	0.174	25851	6942160
4/1/11	1100	16.8	160	9.744	8.729	8.178	0.60	2.92	1.754	25921	6964310
4/4/11	1300	3.4	150	1.972	5.858	7.2935	0.54	3.08	1.654	25995	6984800
4/6/11	1300	7.1	150	4.118	3.045	4.4515	0.33	2.00	0.655	26043	
4/13/11	1700	3	150	1.74	2.929	2.987	0.22	3.17	0.696	26119	7027090
4/15/11	1000	3.6	150	2.088	1.914	2.4215	0.18	1.63	0.289	26158	7044800
4/15/11	1200	19.1	150	11.078	6.583	4.2485	0.31	0.08	0.026	26160	7045800
4/20/11	830	10.3	190	5.974	8.526	7.5545	0.56	1.96	1.088	26207	7059720
4/26/11	845	8.8	200	5.104	5.539	7.0325	0.52	6.04	3.124	26352	7090260
4/28/11	1200	4.5	150	2.61	3.857	4.698	0.35	2.25	0.777	26406	7100350
4/28/11	1400	11.2	150	6.496	4.553	4.205	0.31	0.04	0.013	26407	7100350
5/2/11	1130	10.2	140	5.916	6.206	5.3795	0.40	1.96	0.775	26454	7109000
5/2/11	1230	13.8	150	8.004	6.96	6.583	0.48	0.04	0.020	26455	7109440
5/10/11	1100	20.8	170	12.064	10.034	8.497	0.62	7.92	4.946	26645	7154580
5/12/11	1500	30.3	150	17.574	14.819	12.4265	0.91	2.17	1.980	26697	7169670
5/17/11	1315	19.2	150	11.136	14.355	14.587	1.07	4.92	5.273	26815	7204780
5/25/11	1300	4.8	320	2.784	6.96	10.6575	0.78	0.04	0.033	26816	7204780
6/2/11	1540	13.8	150	8.004	5.394	6.177	0.45	5.25	2.385	26942	7209910
6/6/11	1400	5.4	160	3.132	5.568	5.481	0.40	3.92	1.578	27036	7240330

6/10/11	1300	20.5	160	11.89	7.511	6.5395	0.48	3.96	1.903	27131	7273100
6/27/11	1420	28.2	140	16.356	14.123	10.817	0.80	10.46	8.318	27382	7353250
7/6/11	930	31	140	17.98	17.168	15.6455	1.15	8.79	10.114	27593	7405360
							Totals	337.35	122.95		1,106,195
								Days	Gallons		Gallons


PCE Influent Concentration Plot
Concentration PPMv
1000
900
800
700
600
500
400
300
200
100
0
1/26/10
1/26/2010 13:45:00 PM
1/26/2010 14:45:00 PM
1/26/2010 15:45:00 PM
1/27/10
1/27/2010 16:00:00 PM
1/28/2010 16:15:00 PM
1/29/2010 16:30:00 PM
1/30/2010 14:45:00 PM
1/31/10
2/2/10
2/4/2010 14:35:00 PM
2/8/10
2/8/2010 13:51:00 PM
2/9/10
2/10/10
2/11/10
2/11/2010 13:10:00 PM
2/15/2010 13:00:00 PM
2/17/10
2/19/10
2/23/10
2/26/10
3/4/10
3/8/2010 15:00:00 PM
3/12/2010 13:30:00 PM
3/19/2010 14:00:00 PM
4/1/10 12:00 AM
4/20/10 10:00 AM
4/23/10
4/28/10
4/30/10
5/5/10
5/13/10
5/21/10
5/25/10
5/27/10
6/3/10
6/8/10
6/10/10
6/28/10
7/6/10
7/12/10
7/16/10
4/27/10 9:00 AM
7/29/10
8/4/10
8/6/10
8/11/10
8/30/10
8/31/10
9/3/10
9/9/10
9/15/10
11/16/10
11/19/10
12/2/10
12/6/2010 13:00:00 AM
12/22/10
1/10/11
1/21/11
2/2/11
2/10/11
3/17/11
3/24/11
4/1/11
4/6/11
4/15/11
4/20/11
4/28/11
5/2/11
5/10/11
5/17/11
6/2/11
6/10/11
7/6/11

Former AJ Laundry, 1173-1175 Campbell Avenue, San Jose, CA

Field Measurements - Radius of Influence

Date	Ext Well(s)	Vacuum (In. Hg)	Observation Well	Vacuum (In. H_2O)	Distance (ft)	Calculated ROI (ft)
7/12/11	VE-14	1.5	VE-2	0.15	20.4	21
7/12/11	VE-14	1.5	VE-1	0.06	41.3	42
7/12/11	VE-14	1.5	VE-15	0.01	65.0	65
7/12/11	VE-5	1.5	VE-7	0.065	31.0	31
7/12/11	VE-14	1.5	VE-7	0.065	39.5	40
7/12/11	VE-14	1.5	VE-18	0	81.3	nc

Laboratory Testing - Influent Vapor Concentrations (uL/L)

Sample #	Date	PCE	TCE	1,1-DCE	cis-1,2-DCE	ans-1,2-DC	VC	PID PCE
INF-1	1/26/10	630	<23	<31	<31	<31	<48	272.6
INF-1	1/28/10	200	<9.2	<12	<12	<12	<19	105.56
I-1	2/1/10	130	<4.6	<6.2	<6.2	<6.2	<9.6	56.84

Note: Converted PID readings as PCE are approximately 50 percent less than the corresponding lab data. Mass removal calculations may be twice the amount calculated using PID data.

Former AJ Laundry, 1173-1175 Campbell Avenue, San Jose, CA

Discharge Samples - Treated Vapor (uL/L)

								% Destruction*	
Sample #	Date	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	VC	PCE	
INF-1	1/26/10	630	<23	<31	<31	<31	<48		
EFF-1	1/26/10	<0.036	<0.046	<0.062	<0.062	<0.062	<0.096	99.99%	

* Uses detection limit as effluent concentration if ND.

Discharge Samples - Treated Groundwater (ug/L)

Sample #	Date	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	VC				
EFF-1	4/6/11	NA	NA	NA	NA	NA	NA				
EFF Trailer T1	6/27/11	50	13	<1.0	<1.0	<1.0	<1.0				

APPENDIX C

Sampling Procedures and Purge/Sampling Worksheets

Monitoring Well Sampling

- Before purging, water levels were measured with an electronic interface tape. Purging preceded sampling to ensure collection of non-stagnant water. The low-flow sampling method was used to sample groundwater from the wells. The wells were purged using a peristaltic pump. Clean polyethylene tubing was placed in each well and the intake set near the bottom of the well. Stabilization of water quality parameters were monitored to determine when groundwater representative of formation water was ready to sample.

- To prevent potential cross-contamination between wells, all measuring, purging, and sampling equipment was washed in an Alconox detergent solution, rinsed with tap water, and then rinsed with distilled water.

- Groundwater samples were collected in containers supplied by the laboratory. Water collected for analysis of VOCs was decanted into 40-milliliter vials with Teflon-lined septa. The vials were preserved using hydrochloric acid and acidified to a pH of less than 2.0. All samples were labeled, placed in a refrigerated cooler, and accompanied by the chain-of-custody document. Samples transported to the laboratory were analyzed within the specified holding time.

- Groundwater produced during purging and sampling was processed through the remediation system.

Indoor Air Sampling

All canister and flow controller preparation, sample analysis, and quality assurance tasks were performed by McCampbell Analytical, Inc. of Pittsburg, CA. Sample canisters were cleaned and certified by McCampbell Analytical. Canisters will be obtained from the lab via courier service and transported in a manner that avoids excessive temperature changes or significant shock. McCampbell Analytical is accredited by California State Environmental Laboratory Accreditation Program (#1644).

The instructions for the method of sample collection was as follows:

1. Verify initial canister vacuum is at 27" Hg or greater.
   - Verify gauge operation. Indicator should read zero. If not zero, the gauge either needs equilibrium or replacement.
   - Confirm that the valve is closed.
   - Remove the brass cap from Summa canister.
   - Attach vacuum gauge and seal side of gauge tee fitting.
   - Open and close valve quickly (one second or less).
   - Read and record vacuum on gauge.
   - Verify that the canister valve is closed and remove gauge.
   - Replace cap.
2. Set up canister and begin sampling:
   - Setup canister at location that is not in direct sunlight or subject to significant temperature changes, as this prevents an altered sampling rate.
   - Remove the brass cap.

- Attach flow controller to canister. Tighten Swagelok fitting to finger tight plus 1/4 turn.
- Open valve 1/2 turn.
- Monitor vacuum periodically during sampling to verify that vacuum is decreasing by approximately 1" Hg/hr.
- Terminate sampling when gauge reads 5" Hg vacuum.
- At end of sampling period, close valve (hand tight only) and disconnect flow controller.

3. Verify final vacuum reading:
   - at end of 8 hour sample period, read and record canister vacuum. Final vacuum should be between 3" and 7" Hg, but not less than 1" Hg.
   - Replace brass cap.
4. Package and ship samples:
   - Complete sample tag on canister and chain of custody document.
   - Do not refrigerate and ship by courier to lab within 72 hours.
   - Analyze samples within 14 days from time of collection.

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-1
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18
Depth to Water (ft): 6.85
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other Dup 1

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1453	500	19.1	1521	7.0	Clear	Low		
1455	1000	18.2	1538	7.2	"	"		
1456	1500	17.6	1569	7.2	"	"		
1458	2000	17.5	1573	7.2	"	"		
1459	2500	17.5	1574	7.2	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1500	17.5	1574	7.2	.9	Clear	15.76	306	1240

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-2
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18
Depth to Water (ft): 4.92
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1231	500	22.8	1295	7.4	clear	low		
1233	1000	21.0	1207	7.3	"	"		
1234	1500	20.0	862	7.3	"	"		
1236	2000	19.9	857	7.3	"	"		
1238	2500	19.8	853	7.3	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1240	19.8	853	7.3	3.3	clear	0.00	-075	746

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-3
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18
Depth to Water (ft): 5.06
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1143	500	19.1	613	7.8	clear	low		
1145	1000	17.6	805	7.7	"	"		
1147	1500	17.5	939	7.6	"	"		
1149	2000	17.5	940	7.6	"	"		
1150	2500	17.5	941	7.6	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic Pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1155	17.5	941	7.6	1.5	clear	58	180	639

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCL pH 2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-4
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 17'
Depth to Water (ft): 5.89
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:
Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 16.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other Dup 2

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1420	500	19.2	1519	6.4	Clear	Low		
1422	1000	18.8	1546	5.9	"	"		
1424	1500	18.7	1563	5.9	"	"		
1426	2000	18.7	1567	5.9	"	"		
1427	2500	18.7	1568	5.9	"	"		

Purge Date: 5/20/11

SAMPLE:
Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1430	18.7	1568	5.9	2.0	Clear	17.08	310	1560

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-5
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 17'
Depth to Water (ft): 5.22
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 16.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1126	500	20.8	581	7.6	clear	low		
1128	1000	19.3	622	7.6	"	"		
1130	1500	19.2	625	7.5	"	"		
1131	2000	19.0	627	7.5	"	"		
1133	2500	19.0	627	7.5	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1135	19.0	627	7.5	1.2	clear	0.00	108	519

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater _X_ Other _____

Sample ID: MW-6
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 _X_ 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 17 — Depth to Water Initial (I) _____ (ft)
Depth to Water (ft): 5.92 — Depth to Water after purging (P) _____ (ft)
Calculated Purge Total: (gal):_____ (ml): _____ — Depth to Water before sampling (S) _____ (ft)
80% Recovery: S = P - 0.8 X (P-I) — (P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 16.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
950	500	15.8	544	5.0	Clear	Low		
951	1000	16.2	522	6.7	"	"		
953	1500	16.5	507	6.7	"	"		
955	2000	16.7	467	6.7	"	"		
957	2500	16.7	465	6.7	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1000	16.7	465	6.7	2.4	Clear	.10	157	1660

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test — DO: SM 600
pH: Hanna Water Test — ORP: Hanna Water Test
Turbidity: Hanna HI 731313 — TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-12
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 30
Depth to Water (ft): 4.95
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 29.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1010	500	17.0	886	7.6	Clear	Low		
1012	1000	16.5	735	7.6	"	"		
1014	1500	16.2	864	7.6	"	"		
1015	2000	16.2	860	7.6	"	"		
1017	2500	16.1	862	7.4	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic Pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1020	16.[illegible]	862	7.6	1.0	Clear	2.10	111	NM

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl/NH4
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-16
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 30 — Depth to Water Initial (I) _____ (ft)
Depth to Water (ft): 6.48 — Depth to Water after purging (P) _____ (ft)
Calculated Purge Total: (gal): _____ (ml): _____ — Depth to Water before sampling (S) _____ (ft)
80% Recovery: S = P - 0.8 X (P-I) — (P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:
Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 29.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1352	500	22.2	1167	7.3	Clear	low		
1353	1000	20.3	794	7.6	"	"		
1355	1500	20.0	791	7.6	"	"		
1357	2000	20.0	787	7.6	"	"		
1358	2500	20.1	786	7.6	"	"		

Purge Date: 5/20/11

SAMPLE:
Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1400	20.1	786	7.6	1.0	Clear	14.05	274	835

Sheen: No Odor: No Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test — DO: SM 600
pH: Hanna Water Test — ORP: Hanna Water Test
Turbidity: Hanna HI 731313 — TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater _X_ Other _____

Sample ID: MW-17
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 _X_ 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 30
Depth to Water (ft): 6.12
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ____0____ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 29.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1207	500	19.0	784	8.0	clear	Low		
1208	1000	17.7	595	7.7	"	"		
1210	1500	17.6	780	7.7	"	"		
1212	2000	17.6	779	7.7	"	"		
1214	2500	17.6	781	7.7	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic Pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1215	17.6	781	7.7	1.9	clear	41.34	206	611

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-20
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18
Depth to Water (ft): 4.85
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1301	500	18.7	992	7.9	Clear	Low		
1303	1000	18.0	984	7.8	"	"		
1305	1500	17.5	951	7.8	"	"		
1306	2000	17.3	945	7.8	"	"		
1308	2500	17.3	943	7.8	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1310	17.3	943	7.8	2.3	Clear	125	182	690

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-25
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 20
Depth to Water (ft): 4.49
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 14.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1106	500	17.7	288	8.2	Clear	Low		
1107	1000	18.5	436	8.0	"	"		
1109	1500	18.2	521	7.9	"	"		
1111	2000	18.2	522	7.9	"	"		
1112	2500	18.3	525	7.9	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1115	18.3	525	7.9	1.9	Clear	144	-082	165

Sheen: MU Odor: MU Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH<2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-26
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 20'
Depth to Water (ft): 5.80
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:
Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump ✓ 19.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1049	500	21.4	438	7.7	Clear	Low		
1051	1000	20.3	637	7.7	"	"		
1053	1500	20.1	639	7.6	"	"		
1054	2000	20.0	641	7.6	"	"		
1056	2500	20.2	640	7.6	"	"		

Purge Date: 5/20/11

SAMPLE:
Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1100	20.2	640	7.6	1.5	Clear	11.34	278	368

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCL/HCL
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater _X_ Other _____

Sample ID: MW-27
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 _X_ 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 20'
Depth to Water (ft): 5.05
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 19.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1029	500	17.0	643	7.7	Clear	Low		
1031	1000	18.0	649	7.6	"	"		
1032	1500	18.5	650	7.6	"	"		
1034	2000	18.6	649	7.6	"	"		
1036	2500	18.6	649	7.6	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic Pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1040	18.6	649	7.6	.8	Clear	24.54	244	559

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: [signature] DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-28
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 20'
Depth to Water (ft): 6.51
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ____0____ (ft.) (in.)

PURGE:
Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 19.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1245	500	23.1	1060	7.7	Clear	low		
1247	1000	19.8	932	7.8	"	"		
1249	1500	17.8	928	7.7	"	"		
1250	2000	17.7	925	7.7	"	"		
1252	2500	17.5	927	7.7	"	"		

Purge Date: 5/20/11

SAMPLE:
Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1255	17.5	927	7.7	.3	Clear	1324	147	440

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCL pH<2
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-29
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 20'
Depth to Water (ft): 6.42
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 19.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1405	500	19.6	997	8.0	Clear	Low		
1407	1000	17.8	964	7.6	"	"		
1408	1500	17.3	997	7.6	"	"		
1410	2000	17.3	997	7.6	"	"		
1412	2500	17.2	996	7.6	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1415	17.2	996	7.6	1.4	Clear	15.24	243	797

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-30
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18'
Depth to Water (ft): 5.88
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product 0 (ft.) (in.)

PURGE:
Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1436	500	20.4	1507	6.0	Clear	Low		
1438	1000	18.9	1520	6.1	"	"		
1439	1500	18.9	1513	6.4	"	"		
1441	2000	18.9	1510	6.4	"	"		
1442	2500	18.9	1512	6.4	"	"		

Purge Date: 5/20/11

SAMPLE:
Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1445	18.9	1512	6.4	1.0	Clear	65.0	355	1440

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCL
Other: _____

Field Measurement Devices:
EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-31
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 19'
Depth to Water (ft): 6.10
Calculated Purge Total: (gal):_____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ~~0~~ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 18.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1321	500	18.0	1213	7.3	Clear	Low		
1323	1000	18.1	1019	6.9	"	"		
1326	1500	18.2	1165	6.8	"	"		
1328	2000	18.2	1171	6.8	"	"		
1329	2500	18.3	1168	6.8	"	"		

Purge Date: 3/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: Peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1330	18.3	1168	6.8	1.5	Clear	18.04	224	944

Sheen: NO Odor: NO Sample Date: 3/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCl pH 2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Sample Field Data

Address: 1173-1175 Campbell Ave., San Jose, CA
Project Number: 0543
Project Name: Former A J Commercial Laundry
Sample type: Groundwater X Other _____

Sample ID: MW-33
Sampled by: Jim
Regulatory Agency: DTSC

Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 X 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): 18
Depth to Water (ft): 5.26
Calculated Purge Total: (gal): _____ (ml): _____
80% Recovery: S = P - 0.8 X (P-I)

Depth to Water Initial (I) _____ (ft)
Depth to Water after purging (P) _____ (ft)
Depth to Water before sampling (S) _____ (ft)
(P-S) / (P-I) X 100 = % Total Recovery

Floating Product ____ (ft.) (in.)

PURGE:

Device (Depth of Intake from TOC): Electric ~~Submersible~~ Peristaltic Pump 17.5 Bailer: _____

Purge Water Containment: 1 gallons stored in _____ 55 gal drum, ✓ Processed through GAC system
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (°C)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
1334	500	20.9	1630	7.0	Clear	Low		
1336	1000	19.6	1590	6.4	"	"		
1337	1500	19.5	1607	6.0	"	"		
1339	2000	19.5	1535	6.0	"	"		
1340	2500	19.4	1530	6.0	"	"		

Purge Date: 5/20/11

SAMPLE:

Device: Dedicated bailer _____, Electric Submersible Pump _____
Other: peristaltic pump

Time	Temp. (°C)	EC (us)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (FTU)	ORP (mV)	TDS PPM
1345	19.4	1530	6.0	.8	Clear	83	261	1980

Sheen: NO Odor: NO Sample Date: 5/20/11

Sample container: 1 liter, amber glass _____ Preservative: _____
40 ml VOA 2 Preservative: HCL pH<2
Other: _____

Field Measurement Devices:

EC : Hanna Water Test
pH: Hanna Water Test
Turbidity: Hanna HI 731313
DO: SM 600
ORP: Hanna Water Test
TDS: HM Digital

Notes: _____

SIGNATURE: _____ DATE: 5/24/11

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA
FORM 7a

Water Level Data Sheet

Project: Lindsell Property
Project No.: 0543

GeoResrtoration, Inc.
15940 Concord Circle, Morgan Hill, CA

Date(s): 5/20/11
Sampler: Bill Duong
Weather: Sunny, warm
Sounder:

Well	Date	~~Time~~ DTW system on	DTW (TOC)	Total Depth	Measured By	Comments
MW-1	5/20/11	6.77	6.85		Bill	New well Head
MW-2		4.82	4.92			
MW-3		4.98	5.06			
MW-4		19.00	5.89			
MW-5		5.64	5.22			
MW-6		6.01	5.92			
MW-7		4.75	4.87			
MW-8		5.32	5.41			
MW-9		4.50	~~5.03~~ 4.59			
MW-10		4.95	~~4.66~~ 5.03			
MW-11		4.58	4.66			
MW-12		4.92	4.95			
MW-13		5.49	5.31			
MW-14		5.70	5.70			
MW-15		6.96	6.85			
MW-16		29.00	6.48			
MW-17		29.00	6.12			
MW-18		5.16	5.22			
MW-19		4.57	4.68			
MW-20		4.76	4.85			
MW-21		4.55	4.64			
MW-22		5.13	5.21			
~~MW-23~~						
~~MW-24~~						
MW-25		4.81	4.49			
MW-26		5.94	5.80			
MW-27		5.07	5.05			
MW-28		19.00	6.51			
MW-29		18.00	6.62			
MW-30		6.16	5.88			
MW-31		5.94	6.10			
MW-32		5.56	5.57			
MW-33		5.24	5.26			
MW-37		5.06	5.15			
MW-38		5.43	5.53			
MW-39		4.15	4.25			
MW-40		4.72	4.81			
MW-41		5.65	5.71			
MW-42		5.33	5.37			
MW-43		6.11	6.23			

Note: for multi-level well the indentation marks septa number 1, chambers are numbered clockwise from indentation.

FORM 5

◆ **GRI**
GeoRestoration, Inc.
(408) 779-5533 ⌖ Fax (408) 779-5530
15940 Concord Circle
Morgan Hill, CA 95037

March 13, 2015

Mr. Alex Lee
Department of Toxic Substances Control
700 Heinz Avenue, Building F, Suite 100
Berkeley, CA 94701

Reference: 1173-1175 Campbell Avenue
San Jose, CA
Docket No. IS&E 05/06-012

Subject: Revised Workplan for Soil Gas and Groundwater Sampling

Dear Mr. Lee:

Please find enclosed GRI's revised workplan for a soil gas survey and groundwater sampling prior to determineremediation progress at the referenced site. Groundwater samples from select wells will be collected and analyzed to obtain baseline concentrations in groundwater prior to continued remediation and determine if any rebound has occurred since previous remedial efforts.

Soil gas sampling was also planned to evaluate the effects of previous remedial efforts. Currently, the scheduled soil gas vendor is booked until mid-April. Therefore, GRI proposes to defer the soil gas survey for a few months and beginning remediation immediately after the proposed groundwater sampling. This would allow further reduction of higher groundwater concentration areas prior to the soil gas sampling and allow the installation of permanent soil gas sampling points, rather than one-time sampling probes, for any future soil gas sampling that may be required. Also, our client has been requesting that remediation restart as quickly as possible. Therefore, GRI requests that DTSC consider and approve this modified work schedule.

Copies of this workplan were also sent to those persons named in the distribution section. If you have any questions regarding the content of this report, please contact me at (408) 779-5533.

Sincerely,

GEORESTORATION, INC.

Roger D. Dockter, P.G. CA #6152
Project Manager

cc: file 0543-2
RDD

REVISED
WORKPLAN FOR SOIL GAS AND GROUNDWATER SAMPLING
1173-1175 CAMPBELL AVENUE
SAN JOSE, CALIFORNIA

IMMINENT AND SUBSTANTIAL ENDANGERMENT DETERMINATION AND ORDER AND REMEDIAL ACTION ORDER

DOCKET NO. IS&E 05/06-012

Prepared for:

R&C BROWN ASSOCIATES
1475 S. BASCOM AVENUE #206
CAMPBELL, CALIFORNIA 95008

Prepared by:

GEORESTORATION, INC.
15940 CONCORD CIRCLE
SAN JOSE, CALIFORNIA 95110

March 13, 2015

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FIGURES

Figure 1 Topographic Location Map
Figure 2 Soil Gas Probe Location Map
Figure 3 Groundwater PCE Concentration Contour Map

TABLES

Table 1 Sampling and Analysis Plan
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APPENDICES

Appendix A Sampling and Analysis Plan
Appendix B Health and Safety Plan
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REVISED WORKPLAN FOR SOIL GAS AND GROUNDWATER SAMPLING
1173-1175 CAMPBELL AVENUE
SAN JOSE, CALIFORNIA

March 13, 2015

1.0 INTRODUCTION

Per the DTSC Imminent and Substantial Endangerment Determination and Order and Remedial Action Order (Docket No. IS&E 05/06-012), GeoRestoration, Inc. (GRI) has been retained by R&C Brown Associates to provide environmental services for the site located at 1173-1175 Campbell Avenue in San Jose, California (Figure 1). This workplan proposes groundwater sampling to provide data regarding the current site conditions prior to initiating further remediation of soil and groundwater and deferring soil gas sampling to a later date following further reduction of high concentration groundwater areas. The proposed environmental services include the following: 1) preparation of a work plan and updated health and safety plan; 2) groundwater sampling at select locations; 3) oversight of soil gas probe installation and soil gas sampling activities when appropriate; and 4) preparation of a summary report of the work completed. This investigation is being conducted within the boundaries of the site.

This workplan provides the basis for the site investigation to be performed. The workplan provides the following information: 1) site description and background; 2) scope of work; 3) sampling and analysis methods; 4) type of reporting; 5) quality control discussion; 6) health and safety plan; and 7) proposed work schedule.

1.1 Site Description

The site is flat with buildings along the eastern and western sides of the property (except for the southeastern corner of the site which is undeveloped). A driveway runs down the center of the property. The site is paved except for the undeveloped southeastern corner. The site previously contained underground fuel storage tanks and there were sumps at the rear of Building 2 and in the front half of Building 3.

Figure 2 is a site plan that shows the proposed locations of soil gas samples and site monitoring wells. Figure 3 is a site plan that shows monitoring well locations and lists the wells proposed for groundwater samples.

1.2 Site Background

The site is a commercial property that was formerly occupied by a number of business tenants, including a commercial laundry (A J Commercial Laundry), a cabinet shop, a plumbing company, and a janitorial supply company (All-Chem Supply) now occupied by a packaging supply company. The western half of the site contains the packaging company with offices at the front of Building 1 and the remaining portion of Building 1 is used as a warehouse. The other building on the western side (Building 2) is either unoccupied or used for storage with minor entry and occupancy time. The building located on the eastern half of the property is vacant.

Site investigation and remediation activities have been performed at the site. The chronology of site work is as follows.

May 2005 – A site investigation involving grab groundwater sampling was completed by GRI. The investigation was completed to screen the site prior to a future sale of the property. A report was submitted to the Santa Clara Valley Water District on 8/15/05 to disclose the detection of groundwater impact. Measurements obtained during the May sampling event indicated that groundwater was encountered between 6.5 to 11.5 feet below grade and stabilized between 4 to 11.5 feet below grade. Soil (to a depth of at least 16 feet) was primarily a silty clay with interbeds (generally 2 feet or less, but up to 5 feet thick) of clayey gravel, gravelly sand, clayey sand, and silty sand. The 2005 groundwater analytical results were presented in a report dated 8/10/05.

December 2006 – A soil gas survey was completed at the site. Samples were collected at 20 locations. A soil gas report dated 4/2/07 was submitted to DTSC. The report presented modeling results of soil gas data that indicated areas which had exceeded risk or hazard quotient values for vapor intrusion to indoor air.

January 2007 – Six wells were installed on 1/04 and 1/08/07. A well survey was completed on 1/09/07. The wells were developed on 1/10/07 and purged and sampled on 1/12/07. The well installation details and results of soil and groundwater sampling were presented in a report dated 7/16/07.

May and June 2007 – Thirty-five soil borings were completed to sample soil. The samples were spaced to screen soil throughout the property. The borings were completed on 5/30/07, 5/31/07, and 6/01/07. The results of the soil sampling were included in the 7/16/07 report.

February 2008 – Two exploratory borings were completed to log subsurface soils on 2/11 and 2/12/08. The borings determined that porous soils (sands or gravels) were present below finer grained soils logged to a depth of 17 to 18 feet. In addition, the borings confirmed the presence of a confining clay layer reported at a depth of approximately 30 feet at nearby sites. Grab groundwater samples were also collected in the porous soils (encountered in the exploratory borings) to determine if volatile organic compounds (VOCs) were present. The borings were continuously sampled to determine lithology and aid in well design for the proposed monitoring wells. Based on the results of soil and groundwater sampling in the exploratory borings, 12 wells were installed to a depth of approximately 30 feet with 8 feet of well screen at the bottom of each well.

The wells (MW-7 through MW-18) were installed from 2/22 through 2/28/08. Well development occurred from 2/25 through 2/29/08, and well sampling was completed on 3/05 through 3/07/08. An indoor air survey was completed on 3/11/08, and the wells were surveyed on 3/18/08. The results of the activities performed in February and March 2008 were presented in a site investigation report dated 7/28/08.

January 2010 – Remediation began and was conducted at the site using soil vapor extraction (SVE) or dual-phase extraction (DPE) from 1/26/10 to 10/24/11. Additional wells were installed for remediation purposes as described in the following paragraph.

April and May 2010 – Fourteen soil vapor extraction wells were installed to further complete a grid of vapor extraction wells within the area of known soil impact located towards the front of the property.

The wells were installed in April 2010 and are numbered VE-9 to VE-22. The wells contained 5 feet of screen and are being used to extract VOCs from the vadose zone.

Thirteen groundwater monitoring wells were installed to a depth of approximately 20 feet with 5 feet of well screen at the bottom of each well and seven groundwater monitoring wells were installed to a depth of approximately 30 feet with 5 to 8 feet of well screen at the bottom of each well. The monitoring wells were developed and then purging and sampling occurred at least two days following the development of each well. The installation of the additional vapor extraction and monitoring wells is documented in a report dated 1/27/11.

July and September 2010 – Soil and groundwater verification samples were collected to determine remediation progress. Soil samples were collected at fourteen locations and analyzed. Four wells (MW-4, 5, 26, and 29) were sampled in the July verification testing to determine the timing of a more complete verification sampling event. In September, eight wells were sampled to determine remediation progress in areas that had undergone remediation by DPE. The results of the sampling are presented in the *Report of Site Investigation, Well Installation, and Remediation Progress* dated 1/27/11.

May 2011 – Groundwater verification samples were collected from 18 wells and analyzed for VOCs. The results of the sampling are presented in the Remediation Progress Report dated 7/11/11.

October 2011 – The SVE/DPE system was shut down.

November 2012 - Groundwater sampling was completed as a rebound study by Source Group, Inc. (SGI) and raw data uploaded to Envirostor. Soil gas sampling was also proposed, but it does not appear the sampling was completed.

2.0 SCOPE OF WORK

The scope of work includes the preparation of this work plan, updating the existing health and safety plan, the completion of a soil gas survey at 11 locations following further groundwater remediation, sampling groundwater from 13 monitoring wells in areas with remaining elevated VOC concentrations, and reporting. The completion time for the fieldwork is estimated at one day for the soil gas survey and one day for well sampling. Underground Services Alert will be notified prior to initiating installation of soil gas probes.

3.0 SOIL GAS SURVEY

Soil gas samples will be collected at a depth of approximately 5 feet below grade. The proposed sample locations are shown in Figure 2 and listed in Table 1, which includes the sample number, proposed depth of sample collection, and rationale for sampling. The sampling is being completed to reevaluate the areas with the highest previous soil gas survey concentrations and determine remediation progess.

Permanent soil gas wells (probes) will be installed for this investigation. The samples will be analyzed at the site using a mobile laboratory. The sampling methods are described in more detail in Appendix A.

Transglobal Environmental Geochemistry (TEG), an H&P Mobile Geochemistry, Inc. company, will provide the sampling and analytical services. TEG is a state certified lab (DHS Certification #2012 CA)

and licensed drilling contractor (C-57 #706568) located in Rancho Cordova, CA. TEG has been performing soil gas sampling for many years and utilizes current soil gas protocols. Field duplicate samples will be collected and tested by the mobile lab. At least one duplicate sample per batch of 20 soil gas samples or one per sampling day will be collected.

Prior to and during soil gas sample collection, various steps will be taken to ensure the integrity of the soil gas sample. A QC method of leak testing using difluoroethane will be used to document that the soil gas sample was not diluted by ambient air. Difluoroethane gas will be sprayed into a shroud placed over the external surfaces of the sample valve assembly connections, any exposed connections or unions on the sampling probe assembly, and the seal between the ground surface and the probe.

Purge tests will be completed to determine the most appropriate sample volume. The purge test will be performed at a location with the most recent high VOC concentrations in groundwater. At present, sample location SG-15 is the proposed location of the purge test.

After a sample has been successfully collected and analyzed, the soil gas probe will be capped and left in place for future sampling, if needed. A small well box will be installed to protect the well.

4.0 GROUNDWATER SAMPLING

Groundwater samples will be obtained from select wells and analyzed. Figure 3 presents the most recent groundwater data (2011 and 2012) for the site and indicates the wells with proposed samples. The sampling method is described in Appendix A.

5.0 LABORATORY ANALYSIS

Groundwater samples obtained for laboratory analysis will be discretely analyzed in accordance with the applicable test methods contained in SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (Third Edition, 1986, as revised), approved American Society for Testing and Materials (ASTM) procedures. Soil gas sampling will follow DTSC October 2011 guidelines and the California EPA/DTSC April 2012 advisory. Table 1 lists the proposed samples and analytical tests. Reporting limits for soil gas are presented in Table 2.

5.1 Soil Gas

Soil gas samples will be analyzed on-site by TEG using the following method:

- VOCs using EPA Method 8260.

5.2 Groundwater

The proposed laboratory for groundwater analyses is McCampbell Analytical (DHS Certification #1644) located in Pittsburg, California. Groundwater samples will be analyzed by the following methods:

- Volatile Organic Compounds, using EPA 8260B; and
- Total Petroleum Hydrocarbons, using EPA 8015M.

6.0 REPORTING

The site investigation report will consist of the following sections: title sheet/signature page, table of contents; a discussion of field operations; a site plan map with sample locations; soil gas and groundwater concentration maps for contaminants of concern; summary tables of analytical data; and copies of certified analytical reports. The soil vapor appendices will include boring logs, soil vapor probe completion details, data and results of the purge volume test, soil vapor sampling records. The groundwater sampling appendices will include field sampling sheets.

7.0 QUALITY CONTROL/QUALITY ASSURANCE (QA/QC)

7.1 Field QA/QC

Soil gas sampling field QA/QC (the use of leak check compound 1,1-difluoroethane to detect dilution by ambient air) is discussed in Appendix A. The glass syringe for sampling is decontaminated between samples by separating the plunger from the syringe body, baking the plunger and body in an oven at 325 degrees Fahrenheit for 20 minutes, allowing the plunger and body to cool for another 20 minutes, and then the syringe is reassembled.

All field equipment used for groundwater sampling will be cleaned and decontaminated prior to being introduced into the sampling environment. Each sampling point will require either a discrete sampling tool or a recleaned, decontaminated sampling tool. Decontamination will be accomplished by using an environmentally-sensitive phosphate-free soap and water solution to remove particles or contamination adhered to the surface of the sampling tool. The sampling tool will then be rinsed in clean water in a separate container. A third and final rinse will be performed using distilled or deionized water. Care will be taken to prevent cleaned sampling tools from being recontaminated prior to reuse.

The collection of one equipment blank per day (or one per 20 samples, whichever is greater) for reusable glass syringes and groundwater sampling equipment will be completed and the analytical test results reported. Additionally, laboratory supplied trip blanks will accompany groundwater samples at a frequency of one per cooler.

7.2 Laboratory QA/QC

GRI will use approved analytical laboratories certified by the State of California Environmental Laboratory Accreditation Program Branch. The methods used by the laboratory are published and approved analytical methods incorporating standard QA/QC practices. The laboratory will provide pertinent QA/QC documents. Copies of such documents will be included with the laboratory report.

8.0 PERMITTING AND HEALTH AND SAFETY PLAN

A drilling permit is not required for borings less than 45 feet deep. A site and task specific Health and Safety Plan (HASP) had been developed for the site, was updated, and is attached as Appendix B. The HASP will be present in the field during the sampling events.

9.0 PROJECT SCHEDULE

The following table provides a feasible schedule for performing the tasks identified in this workplan. Completion dates (days following submittal of the workplan or actual date) for each task are identified.

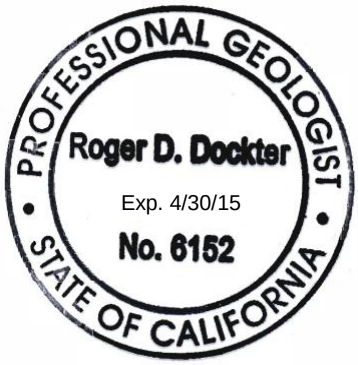
Proposed Project Schedule

Task	Day or Date
1 - Workplan Submittal	March 13, 2015
2 - Schedule Field Work	WP approval date +1 day
3 - DTSC Notification	Ten days prior to field activities or as approved by DTSC
3 - Conduct Groundwater Sampling	To be determined
4 - Complete Analytical Testing	Sample date +7 days
5 – Install Soil Gas Wells	Mid April 2015
6 – Soil Gas Sampling	End of April 2015 or Early May 2015
7 - Final Report	30 days from receipt of lab data

10.0 CERTIFICATION

I certify that the information contained in or accompanying this submittal is true, accurate, and complete to the best of my knowledge.

03/13/15
Date



Prepared by: Roger Dockter, P.G.
Professional Geologist #6152

11.0 REFERENCES

ASTM, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*. Third Edition, 1986, as revised.

California Environmental Protection Agency/Department of Toxic Substances Control/ Regional Water Quality Control Board/San Francisco Regional Water Quality Control Board, Los Angeles Region, *Advisory – Active Soil Gas Investigations*, April 2012.

California State Water Resources Control Board, *Leaking Underground Fuel Tank Guidance Manual*, September 2012.

Department of Toxic Substances Control, *Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*, October 2011.

12.0 DISTRIBUTION

Mark Bruening
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1475 S. Bascom Avenue #206
Campbell, CA 95008

Alex Lee
Department of Toxic Substances Control
700 Heinz Avenue, Building F, Suite 100
Berkeley, CA 94701

TABLES

TABLE 1. SAMPLING AND ANALYSIS PLAN

Former AJ Commercial Laundry
1173-1175 Campbell Avenue, San Jose, CA

Sample Location	Sample I.D.	Sample Depth (ft)	Analysis	Rationale
Groundwater (Monitoring Wells)				
MW-1, 4, 7, 16, 20, 25, 28, 29, 30, 31, 32, 33, and 43	MW-#	TD – 1'	VOCs 8260B and TPH 8015M	Determine remedial progress and provide baseline data prior to further remediation.
Duplicate Sample	Dup-1	-	VOCs 8260B	QA/QC
Trip blank and Equipment blank	TB-1 and EB-1	-	VOCs 8260B	QA/QC
Soil Gas				
Near SG-2, 4, 9, 10, 12, 13, 14, 16, 18, 19, and 20	SG-x-1	5.0 bgs	VOCs by 8260B	Determine remedial progress
Duplicate	TBD	5.0 bgs	VOCs by 8260B	QA/QC
Duplicates and equipment blank– one per day or per twenty samples collected.				

Notes: proposed soil gas locations will be within one foot of the previous soil gas sampling location.

bgs	below ground surface
ft	feet
MW	monitoring well
QA/QC	quality assurance/quality control
SG	soil gas
TBD	to be determined from field data review.
TD	total depth of well.
TPH	total petroleum hydrocarbons
VOCs	volatile organic compounds

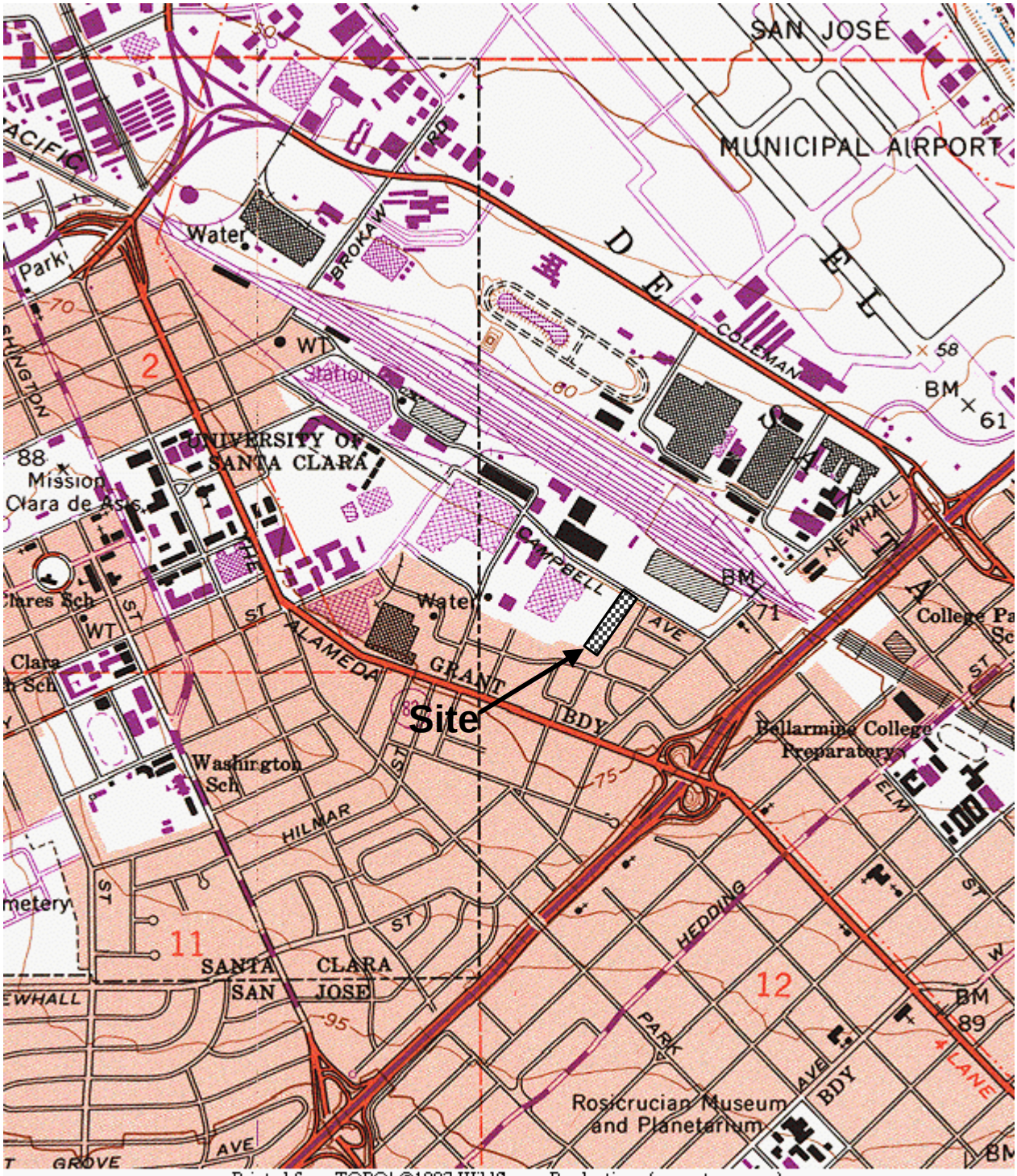
TABLE 2. REPORTING LIMITS FOR SOIL GAS BY EPA METHOD 8260

Former AJ Commercial Laundry
1173-1175 Campbell Avenue, San Jose, CA

COMPOUND	Reporting Limit (TEG)						
Dichlorodifluoromethane	100						
Vinyl Chloride	10						
Chloroethane	100						
Trichlorofluoromethane	100						
1,1-Dichloroethene	100						
1,1,2-Trichloro-trifluoroethane	100						
Methylene Chloride	100						
trans-1,2-Dichloroethene	100						
1,1-Dichloroethane	100						
cis-1,2-Dichloroethene	100						
Chloroform	100						
1,1,1-Trichloroethane	100						
Carbon Tetrachloride	100						
1,2-Dichloroethane	100						
Benzene	100						
1,2,4-Trimethylbenzene	100						
1,3,5-Trimethylbenzene	100						
Trichloroethene	100						
Toluene	200						
1,1,2-Trichloroethane	100						
Tetrachloroethene	100						
Ethylbenzene	100						
1,1,1,2-Tetrachloroethane	100						
m,p-Xylene	200						
o-Xylene	100						
1,1,2,2-Tetrachloroethane	100						
Napthalene	70						
1,1-Difluoroethane (leak check)	10,000						

Notes: Reporting limit at a dilution factor of 1.
Concentrations are in $\mu g/m^3$.

FIGURES



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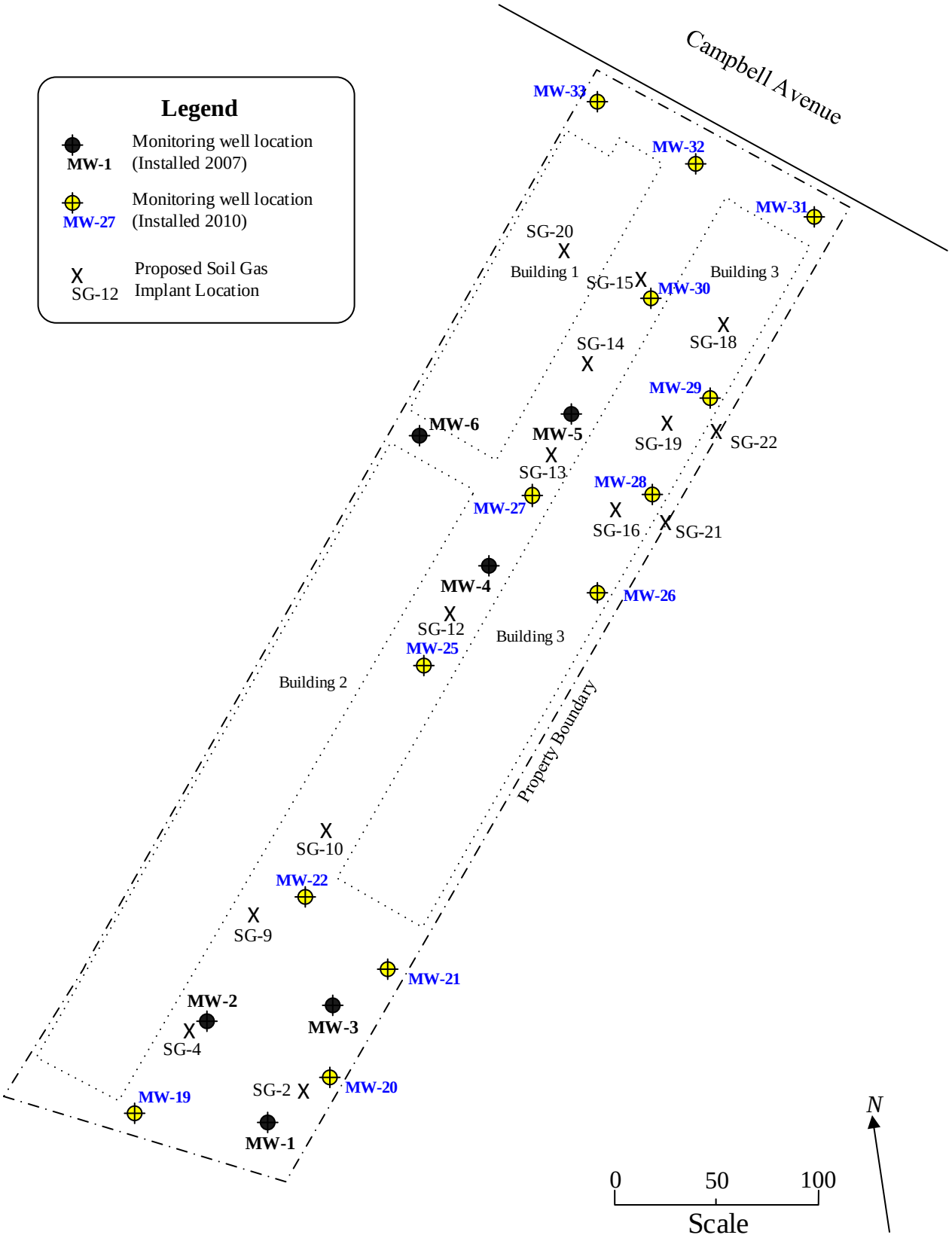
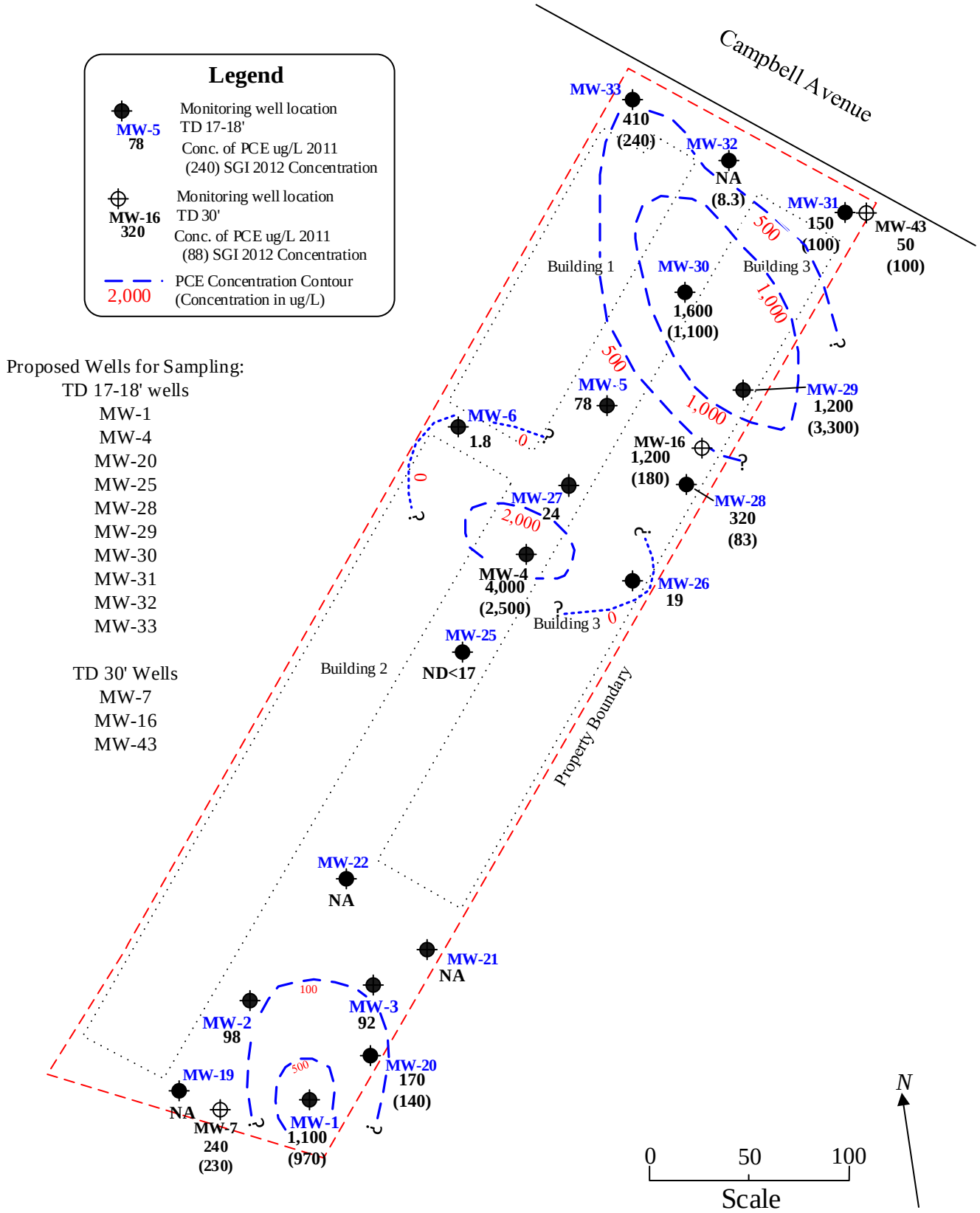
GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Topographic Location Map** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue San Jose, California	**FIGURE** **1**



GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Soil Gas Implant Location Map** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue, San Jose, California	**FIGURE** **2**



GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Groundwater PCE Concentration Contour Map** **(Depth 17-20', May 2011 Sampling)** **Former A J Commercial Laundry** 1173-1175 Campbell Avenue, San Jose, California	**FIGURE** **3**

APPENDICES

APPENDIX A

SAMPLING AND ANALYSIS PLAN

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ATTACHMENTS

Attachment 1 Field Forms

SAMPLING AND ANALYSIS PLAN
1173-1175 Campbell Avenue, San Jose, CA

1.0 INTRODUCTION

Per the DTSC comments on the Workplan for Soil Gas and Groundwater Sampling(letter dated 3/03/15), GeoRestoration, Inc. (GRI) has prepared this Sampling and Analysis Plan (SAP) on behalf of R&C Brown Associates. The SAP details the sampling activities, analytical methods, and quality assurance/quality control procedures for the sampling activities for the site located at 1173–1175 Campbell Avenue in San Jose, CA (Figure 1). This SAP supplements the revised workplan for the subject site.

2.0 FIELD SAMPLING PLAN

The proposed soil gas investigation consists of activities to obtain vapor phase data for volatile organic compounds, which will be used for monitoring the effectiveness of previous remedial actions conducted to-date. The data will also be compared to previously obtained soil gas results.

The project also entails collecting groundwater samples from select wells to determine current concentrations in areas that will undergo further remediation. These baseline results will be used to determine remediation progress. Figure 3 shows the proposed sampling locations.

The completion time for the fieldwork is estimated at one day for soil gas sampling and one day for groundwater sampling.

Soil gas sampling and analysis will be conducted by Transglobal Environmental Geochemistry (TEG). TEG is a state certified lab (DHS Certification #2012 CA) and licensed drilling contractor (C-57 #706568) located in Rancho Cordova, CA.

Groundwater sampling will be conducted by GeoRestoration, Inc. and analyzed by a subcontracted state certified laboratory. The proposed laboratory for sample analyses is McCampbell Analytical (DHS ELAP Certification #1644) located in Pittsburg, CA.

3.0 STANDARD OPERATING PROCEDURES

3.1 Sampling Methods

Groundwater samples will be collected from select existing wells. No permits or utility clearance is required.

Prior to soil gas sampling activities, the site will be marked for utility clearance. Underground Services Alert will be notified prior to installing soil gas monitoring implants.

3.1.1 Soil Gas Samples

Soil gas sampling will be completed per the Advisory Active Soil Gas Investigations, April 2012. Sample points were selected based on previous soil gas data and sample location numbering is the

same as used for the prior sampling. Not all locations previously sampled are being sampled and proposed sampling locations were based on previous sampling data with significant concentrations.

A vapor monitoring implant will be installed per regulatory guidelines. The implant will consist of Teflon tubing with a filter at the end. A boring will be advanced to the selected depth. The tube end with the filter will be centered in the boring and approximately 1 inches above the bottom of the hole. One foot of sand will be placed at the bottom of the boring (around the filter) and the remaining portion of the boring sealed with bentonite (the first 1 foot with dry granular bentonite and the remaining space to the surface with hydrated bentonite). Hydrated bentonite will be mixed at the surface and then slowly poured into the borehole. The implant will be allowed to stabilize for two hours before purge testing and sampling activities.

Purging and sampling soil gas will be accomplished using air-tight glass syringes. The syringes are checked for leaks before each use by closing the exit valve and attempting to force ambient are through the needle. Purge tests will be completed to determine the most appropriate purge volume. Prior to and during soil gas sample collection, various steps will be taken to ensure the integrity of the soil gas sample. A QC method using 1,1-difluoroethane as leak compound will be used to document that the soil gas sample was not diluted by ambient air. The leak compound is a commercial product delivered from a pressurized container. TEG indicated they analyze the product they use and find that it is entirely composed of 1,1-difluoroethane. An analysis of the tracer gas used and the brand name and source of the tracer will be provided in the soil gas report. The glass syringe holding a sample will not be subjected to heat or cold. If condensation is observed on the glass, the sample will be recollected. Sample collection is timed so that the flow rate does not exceed 200 milliliters per minute. This is accomplished by withdrawing the plunger on the syringe at a constant rate of 3 milliliters per second.

The soil gas samples will be analyzed at the site by a mobile laboratory within minutes after collection. The samples will be analyzed using EPA 8260B methodology. One duplicate sample will be analyzed for each 20 samples collected or one per day, whichever is greater. The leak check compound (difluoroethane) will have a detection limit of 10,000 $\mu g/m^3$, and the soil gas sample will be considered valid if the detected amount of difluoroethane is less than 5 percent of the concentration introduced into the shroud. The concentration of difluoroethane introduced into the shroud will be greater than 1,000,000 $\mu g/m^3$. Therefore, a detected concentration of 50,000 $\mu g/m^3$ or less will be considered acceptable.

After each sample has been collected and successfully analyzed, the sampling probe will be left in place, sealed, and protected by a surface cap. A subsurface soil gas implant schematic diagram is presented in Figure A-1 at the end of this Appendix.

A summary of soil gas collection methodology to be used follows:

- For soil gas wells installed with the direct push method, allow two hours before conducting the purge volume test, leak test (at each location), and soil gas sampling.
- If soil gas wells are inaccessible to a drilling rig and are installed by hand-auger, allow 48-hours before conducting the purge volume test, leak test (at each location), and soil gas sampling.
- Tubing will be Teflon.

- Complete shut-in test (for leaks in above-ground sampling system), leak test (to evaluate if ambient air is introduced into the soil gas sample), and purge volume test (to ensure that stagnant air is removed from the sampling system prior to sample collection by analyzing samples after 1, 3, and 10 purge volumes and at appropriate flow rates and vacuums to minimize stripping of vapors from pore water to soil gas) prior to collecting soil gas samples.
- The leak test will be performed using a tracer compound. For this project, the compound will be difluoroethane gas (introduced into a shroud covering all connections).
- Syringes used for this project will be checked for leaks and samples analyzed within the prescribed holding time (30 minutes).
- Soil gas sampling will not be completed if a significant rain event occurs (0.5 inch or greater in 24 hours), if standing or ponded water is present, or if a frontal system is passing through the area. A five-day waiting period will be observed to allow wet soils to drain.
- If refusal occurs when installing the implant, then two additional attempts will be made to install a soil gas well. If high water conditions are present (depth of 2 to 3 feet below grade) then sub-slab wells will be installed and sampled within the building or paved areas. Alternate methods will be proposed if samples cannot be obtained due to low permeability soil conditions.
- Chain of custody forms will be prepared in the field and the samples analyzed in the field using a mobile laboratory.

No wastes will be generated during the collection of soil gas samples other than equipment decontamination liquids and boring cuttings. Waste will be profiled per the waste disposal facility acceptance criteria. The facility will be selected based on the waste stream.

3.1.2 Groundwater Monitoring Well Samples

Dedicated tubing will be installed in each well and connected to a peristaltic pump to purge the well and collect the sample. The following protocol will be followed to minimize turbidity and collect representative groundwater sample using low flow/minimal drawdown sampling procedures. Information placed on water sampling forms will include flow-rate, drawdown, water-quality parameter values, volumes extracted, and times for measurements. Field instruments will be calibrated prior to use in the field.

- The well cover will be open and the water level will be allowed to stabilize for at least 10 minutes.

- The depth to water will be measured by lowering the measuring device slowly to the top of the water so as to minimally disturb the water column. Because the Geoprobe well diameter is 0.75 inch, a small diameter probe (Solinst Model 101 mini) will be used.

- Water level will be checked periodically as a guide to flow adjustment. The goal will be to minimize drawdown to <0.1 m during purging.

- The total depth will be measured with a tag line with a standard tape during installation.

- The base of the peristaltic pump tubing will be located at approximately the midpoint of the submerged well screen interval.

- New sample tubing will be used at each location.

- Typical flow rates will be 0.1 – 0.5 L/min and will be selected to minimize drawdown. In coarse-textured sediments, the flow may be as high as 1 L/min. The flow rate will be verified by pumping water into a graduated container and measuring the time to fill an increment of the container.

- Purging will be considered complete when water quality indicators and drawdown stabilize. In general, the order of stabilization is pH, temperature, specific conductance, oxygen-reduction potential, dissolved oxygen, and turbidity. Specific conductance, oxygen-reduction potential, dissolved oxygen, and turbidity are the best indicators and will be recorded until three successive readings are within ± 0.1 for pH, ± 3% for conductivity, ± 10 mv for redox potential, ± 10% for turbidity, ± 3% for temperature, and ±0.3 mg/L for DO.

- The parameters will be measured using a Hanna Water Test for EC, pH, and ORP; Hanna HI 93703 for turbidity; Hanna HI 9140 for DO; and HM Digital for TDS.

- Sampling will occur in a progression from least contaminated to most contaminated well, if known.

- The same sampling device used for purging (peristaltic pump) will be used for sampling. The pumping rate during sampling will not exceed the pumping rate during purging.

- To prevent potential cross-contamination between wells, all reusable measuring, purging, and sampling equipment will be washed in an Alconox detergent solution, rinsed with tap water, and then rinsed with distilled water.

- Water collected for analysis of VOCs will be decanted into at least two 40-milliliter vials with Teflon-lined septa. The vials will be preserved using hydrochloric acid and acidified to a pH of less than 2.0. Care will be taken to cap the vials with zero headspace inside. If air bubbles are observed, the sample will be discarded and a new sample will be collected.

- All samples will be labeled, placed in a refrigerated cooler, and accompanied by the chain-of-custody document. Samples transported to the laboratory will be analyzed within the specified holding time.

- Groundwater produced during sampling will be contained in 55-gallon steel drums. The drums will be properly labeled and appropriately disposed (transported to a disposal facility or run through the treatment system currently at the site, if active). The disposal will be documented in the SI report.

3.1.3 Field Quality Control Sample Collection

Types and sampling frequencies for quality control samples are discussed in Section 5.2.

3.2 Sample Handling, Preservation, and Custody

3.2.1 Soil Gas Samples

Soil gas samples will be collected and analyzed by TEG. After sample collection, the sample is transferred to the mobile lab for analysis within minutes. The glass syringe holding a sample will not be subjected to heat or cold. If condensation is observed on the glass, the sample will be recollected.

TEG notes the collection time on a log sheet and also records any resistance to sample flow that is felt on the syringe during collection.

3.2.2 Groundwater Samples

Sample containers, preservation method, and holding time requirements will follow those outlined in the USEPA's publication SW-846, Test Method for Evaluating Soil Wastes: Physical/Chemical Methods, Third Edition, Final Update III, December 1996. All samples will be labeled, placed in a refrigerated cooler, and accompanied by the chain-of-custody document. Samples transported to the laboratory will be analyzed within the appropriate holding time.

Sample containers are provided by the analytical laboratory, and certified clean.

Sample Preservation – Immediately after characterization and preparation, all samples will be sealed in air-tight plastic bags and placed in a refrigerated chest at 4±2°C. Water collected for VOC analysis will be decanted into 40-milliliter vials with Teflon-lined septa. The vials contain hydrochloric acid to preserve and acidify samples to a pH of less than 2.0. Any samples not shipped to the laboratory on the day collected will be transferred from the refrigerated field cooler to an office sampling room refrigerator and maintained at 4±2°C.

Sample Identification – The field geologist will identify all samples taken in the field by using a pre-printed sample label attached to the sample container. The sample label will include the following information:

- Unique sample identification number;
- date and time of sample collection;
- requested analysis; and
- initials of the sampler.

Chain-of-Custody Record – All samples will be documented using the standard chain-of-custody procedure, packed and transported in a refrigerated chest, and delivered by laboratory provided courier to a state-certified laboratory for testing.

3.3 Equipment Decontamination

To prevent potential cross-contamination between groundwater monitoring wells and soil gas sampling points, all reusable drilling, measuring, purging, and sampling equipment, except the soil gas sampling glass syringes, will be washed using an Alconox detergent solution, rinsed with tap water, and then rinsed with distilled water. The decontamination water will be placed into 55-gallon drums and processed through the on-site water treatment system. If the system is not available, then the drummed water will be properly disposed and the disposal documented in the SI report.

Soil gas sampling glass syringes will be decontaminated by separating the plunger from the syringe body, baking the plunger and body in an oven at 325 degrees Fahrenheit for 20 minutes, allowing the plunger and body to cool for another 20 minutes, and then reassembled.

3.4 Equipment Calibration

Field analyzers, such as the PID meter, will be calibrated prior to the first use and then daily for the length of field operations using 100 ppm isobutylene. A correction factor of 0.58 will be used to convert the readings to PCE.

Instruments for indicator parameters (e.g., EC, pH, ORP) will be calibrated daily in the office prior to leaving for the field.

3.5 Sample Quality Control

Samples will be placed in pre-cleaned containers obtained from the laboratory. Sample quality control in the field and laboratory are further discussed in Section 5.0.

3.6 Waste Handling

No wastes will be generated during the collection of soil gas samples other than equipment decontamination liquids and boring cuttings. Waste will be profiled per the waste disposal facility acceptance criteria. The facility will be selected based on the waste stream.

Groundwater produced during purging and sampling will be processed through the permitted waste water treatment system at the site. Therefore, no offsite transportation and disposal will be required. The generated volume of waste (well purge water) will be documented in monitoring reports.

4.0 ANALYTICAL METHODS

Soil gas samples will be analyzed for VOCs by EPA analytical method 8260B.

All groundwater samples will be analyzed for VOCs by EPA analytical method 8260B and TPH by 8015M.

5.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

5.1 Field QA/QC

All field equipment used for soil gas and groundwater sampling will be cleaned and decontaminated prior to being introduced into the sampling environment. Each sampling point will require either a discrete sampling tool or a recleaned, decontaminated sampling tool. Decontamination will be accomplished by using an environmentally-sensitive phosphate-free soap and water solution to remove particles or contamination adhered to the surface of the sampling tool. The sampling tool will then be rinsed in clean water in a separate bucket. A third and final rinse will be performed using deionized water. Care will be taken to prevent cleaned sampling tools from being recontaminated prior to reuse.

5.2 QA/QC Samples

5.2.1 Duplicate Samples

A field duplicate will be collected for every 20 samples collected or at least one per day. A field duplicate is a second set of samples collected at the same time and location as a primary sample and analyzed for the same analytes. Field duplicates will be analyzed by the analytical laboratory as a measure of the laboratories analytical precision. Field duplicates are usually submitted blind, where the analytical laboratory does not know which primary sample each duplicate belongs.

5.2.2 Field Blanks

Field blanks will be 40-mL VOAs open to ambient air and analyzed for VOCs. Field blanks will be used to determine if ambient conditions impact samples collected at the site. At least one field blank will be collected during sampling activities to determine if existing site conditions impact samples. Field blanks will be collected by placing full, uncapped VOAs with distilled or deionized water at the site for at least 10 minutes. Field blanks will be analyzed for VOCs.

5.2.3 Trip Blanks

In each cooler containing groundwater samples for VOC analysis, a trip blank will be placed in the cooler. Trip blanks are laboratory-supplied samples containing deionized water for VOC analysis. The trip blank will accompany the sample containers at all times and returned to the lab without being opened. Trip blanks should be packaged similar to any field sample to be analyzed for VOCs.

5.2.4 Equipment Rinsate Blanks

Whenever sampling equipment is reused to collect samples, at least one equipment rinsate blank will be collected each day to verify that decontamination procedures are effective. Equipment rinsate blanks will be collected by running distilled or deionized water through sampling media and analyzed for all analyses requested for that sampling period.

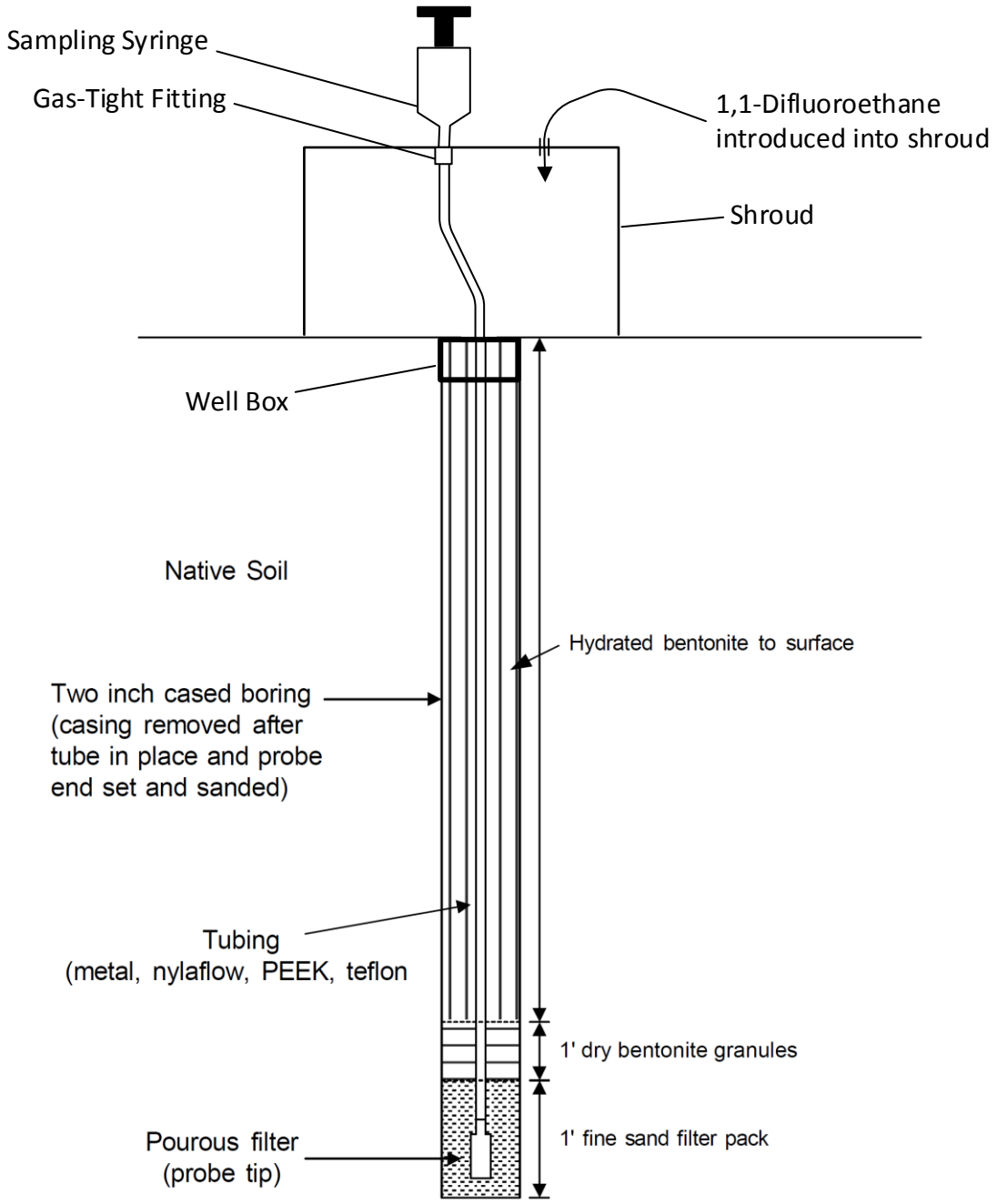
5.2.5 Temperature Blanks

A temperature blank will accompany each cooler that contains samples that require refrigeration. The temperature blank can be filled with tap water in an unpreserved bottle. Upon arrival to the analytical laboratory, the laboratory technician will measure the temperature of the temperature blank to ensure all samples were properly preserved at 4±2 degrees Celsius.

5.3 Laboratory QA/QC

GRI will use approved analytical laboratories certified by the State of California Environmental Protection Agency Waste Testing Laboratory Certification Program. As previously stated, the proposed laboratory is TEG for soil gas sample analysis and McCampbell Analytical, Inc. for groundwater sample analysis. The methods used by the laboratory are published and approved analytical methods incorporating standard QA/QC practices. The laboratory will provide pertinent QA/QC documents. Copies of such documents will be included with laboratory reports. A copy of the McCampbell Analytical, Inc. quality assurance program can be provided upon request.

FIGURES



Not to scale

GeoRestoration, Inc. 15940 Concord Circle Morgan Hill, California 95037	**Diagram of Soil Gas Monitoring Well** **Permanent**	**FIGURE** **A-1**

Attachment 1

Field Forms

Chain of Custody Record

H&P Mobile Geochemistry Inc.

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: _____
H&P Project # _____
Outside Lab: _____

Client: _____ Collector: _____ Page: _____ of _____
Address: _____ Client Project # _____ Project Contact: _____
_____ Location: _____
Email: _____ Phone: _____ Fax: _____ Turn around time: _____

Geotracker EDF: Yes ☐ No ☐
Global ID: _____
Excel EDD: Yes ☐ No ☐

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: _____

Special Instructions:

Lab Work Order # _____

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other _____ ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1, 1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2		
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS												

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

GeoRestoration, Inc.

15940 Concord Circle, Suite 100
Morgan Hill, CA 95037
Main Line: (408) 779-5533
Facsimile: (408) 779-5530

CHAIN OF CUSTODY FORM

Turnaround Time: (working days)
__ 10 day __ 3 day __ Same day
__ 7 day __ 2 day __ other
__ 5 day __ 1 day (_____)

Project Name: _____
Project Number: _____ Task: _____
Global I.D.: _____
Project Address: _____
Laboratory: _____ Contact: _____
Lab Address/Phone: _____
Project Manager: _____
PM Phone Number: _____ Email: _____
Sampler: _____ Phone: _____

Sample Information						Container Information			Comments	Analyses Requested															
			Matrix																						
Sample ID	Date	Time	Soil	Water	Vapor	No.	Type	Preservative	Field Point Name Same as GRI Sample ID	TPHg/BTEX/MTBE (8015M/8021)	TPHg/BTEX/MTBE (8015M/8260B)	TPHg/BTEX/5 Fuel Oxy's/1,2 DCA & EDB (8260B)	TPHg/BTEX/5 Fuel Oxy's (8260B)	TPH Multi Range (8015C)	TPHd (8015M)	VOCs (8260)	HVOCs (8010)	SVOC's (8270)	Title 22 CAM 17 Metals	Priority Pollutant Metals (low detection) (7000/6010)	Silica Gel Cleanup				

Additional Comments: _____

Geotracker EDF:

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Sample Condition: Good? Yes ___ No ___ Refrigerated ? Yes ___ No ___ Cooler Temp _____ Transportation Method: _____ Page ___ of ___

Container Type: V = 40 ml vial, L = 1 liter amber bottle, 500 ml = 500 milliliter bottle, T = tube (B - brass, S - stailess steel, P - plastic) **Preservative:** HCL = Hydrochloric acid, N = Nitric acid, C = 4o C

Water Sample Field Data

Project Number:_____ Sample ID: _____
Project Name: _____ Sampled by: _____
Address: _____ Regulatory Agency: _____
Sample type: Groundwater _X_ Other _____
Casing Diameter (ID - inches): 3/4 ____ 1 ____ 2 ____ 3 ____ 4 ____ 6 ____ 8 ____ Other CMT

Gallons per linear foot:	(0.02)	(0.04)	(0.16)	(0.37)	(0.65)	(1.5)	(2.6)	
Milliliters per linear foot:	(76)	(151)	(644)	(1400)	(2498)	(5678)	(9841)	(40)

Well Total Depth (ft): _____ Volume in casing (gal):_____ (ml): _____
Depth to Water (ft): _____ Calculated Purge Total: (gal):_____ (ml): _____
Height of Water Column (ft): _____ Actual Pre-Sampling Purge:(gal):_____ (ml): _____

PURGE:
Device (Depth of Intake from TOC): Peristaltic Pump _____ Electric Submersible Pump _____
Dedicated tubing _____ Other _____
Purge Water Containment: _____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-_____ FB-_____ Other _____

Time	Volume (gal / ml)	Temp. (^oC)	EC (us/cm)	pH (std. Units)	Color (visual)	Turbidity (visual)	Other	Observation
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Purge Date: _____

SAMPLE:
Device (Depth of Intake from TOC): Peristaltic Pump _____ Electric Submersible Pump _____
Dedicated tubing _____ Other _____

Time	Temp. (^oC)	EC (us/cm)	pH (std. Units)	DO (mg/L)	Color (visual)	Turbidity (NTU)	ORP (mV)	TDS PPM
_____	_____	_____	_____	_____	_____	_____	_____	_____

Sheen: _____ Odor: _____ Sample Date: _____

Field Measurement Devices:
EC : Hanna Water Test DO: SM600
pH: Hanna Water Test ORP: Hanna Water Test
Turbidity: Hanna HI 93703 TDS: HM Digital

Notes: _____
_____
_____
_____

SIGNATURE: _____ DATE: _____

GeoRestoration, Inc. *15940 Concord Circle* *Morgan Hill, CA*

FORM 7b

Water Level Data Sheet

Project:

Project No.:

GeoRestoration, Inc.
15940 Concord Circle, Morgan Hill, CA

Date(s):

Sampler:

Weather: Sounder:

Well	Date	Time	DTW (TOC)	Total Depth	Measured By	Comments
Note:						

FORM 5

Well Development Data

Project Number: Site:

Date:

	Well #	Temp	EC	pH
Vol.				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

TD	DTW	1Vol.

	Well #	Temp	EC	pH
Vol.				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

TD	DTW	1Vol.

	Well #	Temp	EC	pH
Vol.				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

TD	DTW	1Vol.

FORM 6

Borehole/Well Construction Log Page _____ of _____

GeoRestoration, Inc.

15940 Concord Circle
Morgan Hill, CA 95037
Tel: (408) 779-5533
Fax: (408) 779-5530

Project Name:
Project Address:
Project Number:
Global I.D.:

GRI Project Manager:
GRI Geologist:
Start Time: End Time:
Drilling Company:
Driller/Helper:
Borehole/Well ID: Surface Material:

Breathing zone Air Readings (PPMv)	Soil sample vapor measurement (ppmv)	Sampler Type	Blow 6-Inches	Inches Driven Inches Recovered	Sample Depth	Sample ID	Borehole Fill Material	Well Casing/Diameter	Depth (ft)	Sample Interval/ retained interval	Contact Depth (ft)
									1		
									2		
									3		
									4		
									5		
									6		
									7		
									8		
									9		
									10		
									11		
									12		
									13		
									14		
									15		
									16		
									17		
									18		
									19		
									20		

Depth of First Encountered Groundwater (ft): Date/Time: Work Request#:
Depth of Stabilized Groundwater (ft): Date/Time: Drum ID (Soil Cuttings):
Permitting Agency & Permit #: Inspector: DWR Form #:

FORM 2a

GeoRestoration, Inc.

TAILGATE SAFETY MEETING

Project Name: _____ Meeting Date: _____

Project Number: _____

Accidents since Last Meeting:

Hazards Discussed:

Main Topic of Discussion:

Supervisor: _____ Safety Rep: _____

Personnel in Attendance (Print Name-Sign)
1.
2.
3.
4.
5.
6.
7.

Comments:

FORM 13

APPENDIX B

HEALTH AND SAFETY PLAN

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Attachment

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SITE SPECIFIC HEALTH AND SAFETY PLAN
1173-1175 Campbell Avenue, San Jose, CA

1.0 Introduction

This Site Specific Health and Safety Plan is written in accordance with the require-ments of OSHA Standard 29 CFR 1910.120, Cal-OSHA Standard California Code of Regulations, Title 8, Section 5192. The Site Specific Health and Safety Plan will apply to GeoRestoration, Inc. (GRI) personnel, regulatory inspectors, and subcontractors.

The purpose of this Site Specific Health and Safety Plan is to provide an understanding of the potential chemical and physical hazards that exist or may arise during the performance of this project. The plan establishes safety procedures that are designed to protect the health and safety of employees associated with the site project and operations.

The plan will be read by all personnel prior to entering the project area, 1173-1175 Campbell Avenue, California.

2.0 Scope of Work

The project requires the following tasks be performed for the facility:

- Installation of eleven soil gas probes.
- A soil gas survey.
- Groundwater sampling at twelve locations.

3.0 Site Background

The site is a commercial site with active business operations. Groundwater impact (volatile organic compounds) is present.

4.0 Site Description

The facility is flat and paved in most areas. Approximately half of the site is covered by buildings.

5.0 Drilling Operations

Prior to initiating drilling operations, the site underground utilities will be located by site reconnaissance and any supplied maps of the site. The locations of items will be evaluated to determine what measures, if any, are to be taken to prevent damage to existing structures, appurtenances, or utilities. Before any drilling commences, the area will also be checked for underground utilities by calling Underground Services Alert by, and if needed by a private locator service.

6.0 Soil and Groundwater Sampling

Soil and groundwater sampling will be conducted per the methods described in the workplan submitted for the drilling project.

7.0 Health/Risk Analysis

Based on the past usage of the facility, the risk associated with activities should be low if proper personnel protective equipment is used.

8.0 Physical Hazards

Physical hazards are inherently present during drilling operations. Physical hazards present at the project site include the mechanical hazards associated with the operation of vehicles and equipment, slip-trip-fall hazards associated with operations conducted in a work environment, musculo-skeletal injury hazards resulting from heavy work activities, and hazards due to weather conditions. The typical physical hazards present on the site and methods to prevent injury due to these hazards follows.

9.0 Vehicle/Equipment Operation

The safety hazards associated with the operation of equipment, including heavy equipment such as drill rigs, can be effectively controlled by the work crew if a constant awareness of these hazards is maintained. Constant visual and/or verbal contact with the equipment operator will facilitate such awareness.

10.0 Slip-Trip-Fall Hazards

While it is difficult to prevent slip-trip-fall hazards, risk of injury will be minimized by implementing proper site control measures such as daily safety meetings, proper footwear, and by keeping the work area free of obstructions.

11.0 Lifting Hazards

Field operations often require that heavy physical labor tasks be performed. All employees will be instructed in proper lifting techniques (i.e. during daily tailgate safety meetings). Additionally, employees will be instructed not to attempt to lift large or heavy objects without assistance (i.e. > 75 lbs.).

12.0 Tool and Equipment Hazards

Safety hazards associated with the use of tools and equipment are generally related to improper tool handling and inadequate maintenance. Management of these hazards involve proper tool selection, rigorous maintenance of tools and equipment, and effective training of employees in the proper use of these tools.

13.0 Weather

The weather condition is an important consideration in planning and conducting site operations. Extremely hot or cold weather can cause physical discomfort, loss of efficiency, and personal injury. Of particular importance is heat stress, often resulting when protective clothing decreases the body's natural ventilation process.

Reduced work tolerance and the increased risk of excessive heat stress is directly influenced by the amount of work performed while wearing personal protective equipment and by the rate of work performed. Because the incidence of heat stress depends on a variety of factors, all workers will be monitored.

14.0 Heat Stress

Hazards associated with heat stress are listed below.

15.0 Heat Rash

Heat rash may result from continuous exposure to heat or to humid air.

16.0 Heat Cramps

Heat cramps are caused by heavy sweating with inadequate electrolyte replacement. Heat cramps can cause muscle spasms and pain in the hands, feet, and abdomen.

17.0 Heat Exhaustion

Heat exhaustion occurs from increased stress on various body organs including inadequate blood circulation due to cardiovascular insufficiency or dehydration. Heat exhaustion can cause cool, moist skin, heavy sweating, dizziness, and nausea and fainting.

18.0 Heat Stroke

Heat stroke is the most serious form of heat stress. Temperature regulation fails and the body temperature rises to critical levels (>102° F). Immediate action must be taken to cool the body before serious injury occurs. Competent medical help must be obtained. Heat stroke can cause red, hot, unusually dry skin. Symptoms include lack of or reduced perspiration, nausea, dizziness, confusion, and a strong rapid pulse and possibly coma.

19.0 Heat Stress Monitoring Procedures

During the day-to-day field work, the Project Manager, Site Health and Safety Officer, and workers will be alert for the signs and symptoms of heat stress. An increased risk of this hazard exists when individuals are required to work in warm temperatures while wearing protective equipment. The Site Health and Safety Officer will monitor the ambient air temperature using a thermometer located in the work area. Ambient temperatures will be checked three times daily;

once in the morning and twice in the afternoon. Monitoring of all of the field members will be conducted when ambient temperatures exceed 85° F.

The field crew members working in chemical-resistant protective clothing will be observed for the following signs and symptoms of heat stress: dizziness and nausea, profuse sweating, skin color change, vision problems, fainting, weakness, fatigue, cramping, and hot, red, dry skin.

Any team member who exhibits these symptoms will be monitored for heat stress. Heat stress monitoring will consist of measuring heart rate and/or body temperature (alternative) to prevent the onset of heat stress illness. Field crew members will be encouraged to take breaks each hour, as needed.

Heart rate (HR) will be measured by the radial pulse of the wrist for thirty seconds as early as possible in the resting period. The HR at the beginning of the rest period should not exceed 100 beats per minute. If the HR is in excess of the above guideline, the next work period will be shortened by one-third, while the length of the rest period stays the same. If the pulse rate is in excess of 110 beats per minute at the beginning of the next rest period, the following work cycle will be further shortened by one-third.

Body temperature (BT) will be measured with a temperature sensitive strip placed on the worker's forehead or electronic thermometer as early as possible in the resting period. Strip temperature should not exceed 99.7° F. If the forehead temperature is less than 99.7° F, the next work period stays the same. However, if the forehead temperature is in excess of 99.7° F at the beginning of the next rest period, the following work cycle will be further shortened by one-third. Forehead temperature will be measured again at the end of all the rest period to assure that it has decreased to below 99.7°F. Under no circumstances will a worker be allowed to wear impermeable or semi-permeable garments if his/her temperature exceeds 100.6° F. Workers will be encouraged to consume electrolyte beverages during rest periods.

Workers experiencing heat stress that is not relieved by rest period/work period modifications will be removed immediately from field work and be required to consume two to four pints of electrolyte fluid or cool water every hour while resting in a shaded area. The individual should not return to work until symptoms are no longer recognizable. If the symptoms appear critical, persist or get worse, or if the individual's temperature is 102° F, immediate medical attention at a hospital will be sought.

20.0 Heat Stress Reduction

The following recommendations will help reduce heat stress. Their applicability is dependent on evaluating the conditions particular to a specific project.

Provide plenty of liquids to replace loss of body fluids. Appropriate liquids should consist of juices, juice products, and water.

Establish a work schedule that will provide sufficient rest periods for cooling down. As the temperature increases, more frequent and longer rest periods are required.

Heat stress may be of concern depending upon the ambient temperature and amount of solar load. Heat stress can be monitored by various means, the first being oral temperature. Oral temperature shall be recorded at the beginning of the work shift, and throughout the work-day. If the individual has an increase in body temperature of 1° F, the person should be relieved until the temperature returns to normal.

Since utilizing an oral thermometer introduces an element of exposure through ingestion, temperature strips or pulse-rate monitoring will be used. Heart rates should be measured periodically by taking 30 second pulse rates at the end of a work period (i.e. beginning of rest period). If the heart rate exceeds 110 beats/min. at the beginning of the rest period, shorten the next work period by one-third, keeping the rest period the same.

If the heart rate still exceeds 110 beats/min. at the next rest period, shorten the work cycle by one-third. The following table has been developed for frequency of monitoring for acclimatized workers.

Adj. Temp (ºF)	Normal Work Clothes	Impermeable Clothes
90.0	after @ 45 min. work	after @ 15 min. work
87.5-90.0	after @ 60 min. work	after @ 30 min. work
82.5-87.5	after @ 90 min. work	after @ 60 min. work
77.5-82.5	after @ 120 min. work	after @ 90 min. work
72.5-77.5	after @ 150 min. work	after @ 120 min. work

NOTE:Adjusted temperature must be calculated to utilize the chart above.
Temperature is adjusted for solar loading via the following formula:

$^{o}F_{adj} = {}^{o}F_{ambient} + (13 \times \%sunlight)$

Work-Rest Regimes [a,b]

Work-Rest (per hour)	Maximum Adjusted[c] Temperature, °F Light Work	Moderate Work	Heavy Work
Continuous	86	80	77
75 percent work - 25 percent rest	87	82	79
50 percent work - 50 percent rest	89	85	82
25 percent work - 75 percent rest	90	88	86

a = Based on permeable clothes
b = Adapted from ACGIH 1989
c = Adapted from NIOSH et. al. 1985

21.0 Cold Stress

Although cold stress is not anticipated to be a factor during this project, it is included in this Health and Safety Plan. During the day-to-day field work, the Project Manager, the Site Health and Safety Officer (SHSO), and workers will be alert for signs and symptoms of cold stress (hypothermia). The most common cause is due to prolonged exposure to cold while wearing inadequate clothing. This may also occur when individuals are required to wear chemical resistant suits. There may not be adequate insulation under the suit or the worker may be required to undress in an unheated area.

The SHSO will monitor the ambient air temperature using a thermometer in the support zone. At temperatures below 40° F, actual temperature or corrected for wind chill, the most current published ACGIH cold stress standard will be followed.

The field personnel will be observed for the following signs and symptoms:
1. pain in the extremities;
2. uncontrolled shivering;
3. reduced responsiveness.

Any team member who exhibits these signs will be monitored for cold stress. Any individual with an oral temperature of less than 97° F will be taken immediately to a warming shelter.

A warming shelter will be provided on any job site where the ambient temperature is less than 40° F. Breaks will be taken in the shelter as needed according to ACGIH TLV for cold stress.

22.0 Chemical Hazards

Chemical hazards arise from excessive airborne concentrations of mists, vapors, gases or solids in the form of dust of fumes. In addition to the hazard of inhalation, many of these materials may act as skin irritants and/or may be toxic by absorption through the skin. The typical chemical hazards present on this type of site and the methods to prevent illness/injury due to these hazards are described below.

23.0 Identified Site Contaminants

The primary health risk at the facility is the potential for human exposure are volatile organics/hydrocarbons. The potential effects of any exposure is dependent on several factors such as toxicity, time frame of exposure, concentration, general health and age of person exposed, and individual use of hazard reduction techniques.

24.0 Contaminants of Concern

The primary contaminants of concern that have been found at the site are listed in Table 1.

25.0 Exposure Limits

Health risks will be experienced through inhalation of vapors/mist, direct contact with liquids, and direct contact with contaminated soils.

26.0 Permissible Exposure Limits (PEL), Threshold Limit Values (TLV), and Immediately Dangerous to Life or Health (IDLH)

Table 1 contains the Permissible Exposure Limits (PEL), Threshold Limit Values (TLV), and Immediately Dangerous to Life or Health (IDLH for the chemicals of greatest concern that are or may be present. If work shifts are changed from an 8-hour day, the PEL should be calculated to reflect such a change. Employee exposure to compounds above their PEL are not anticipated during this scope of work.

27.0 IDLH Concentration

Immediately Dangerous to Life or Health concentrations (IDLH) represent the maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without a respirator and without experiencing any escape impairing or irreversible health effects. The IDLH concentrations are presented in Table 1.

Table 1. Permissible Exposure Limits (PEL), Threshold Limit Values (TLV) and Immediately Dangerous to Life or Health (IDLH)

Chemical	PEL	TLV	IDLH
Dichlorodifluoromethane*	1,000 ppm	1,000 ppm	15,000 ppm
1,2-Dichloroethane*	50 ppm	10 ppm	50 ppm
cis-1,2-Dichloroethene*	NF	NF	1,000 ppm
Tetrachloroethene*	25 ppm	25 ppm	150 ppm
Trichloroethene*	100 ppm	50 ppm	1,000 ppm
Trichlorotrifluoroethane	1000 ppm	1000 ppm	2,000 ppm
Vinyl Chloride*	1 ppm	1 ppm	NF
Benzene*	1 ppm	10 ppm	500 ppm
Chloroform*	50 ppm	10 ppm	500 ppm
Toluene*	100 ppm	50 ppm	500 ppm
Ethylbenzene*	100 ppm	100 ppm	800 ppm
Xylenes*	100 ppm	100 ppm	900 ppm
Methyl tert-butyl ether*	NF	50 ppm	NF

Notes: NF = none found

* Compound detected in water samples collected in May 2005. Other chemicals will be added to the table as detected.

Toxicity information for Tetrachloroethene is available and indicates that the chemical is probably a human carcinogen.

28.0 Modes of Exposure

Hydrocarbons and solvents might induce a health risk through skin contact, inhalation, and ingestion.

29.0 Radiation

No ionizing radiation or biological hazards are believed to exist at the site.

30.0 Confined Space Entry

There do not appear to be any locations in the project that represent confined space work areas.

31.0 Waste Types

Waste types will include drill cuttings, well development water, and liquid rinseate from decon operations.

32.0 Solids

Solid waste generation will consist mainly of soil cuttings. All individuals involved in the handling of such waste will be required to comply with personnel protective equipment requirements specified in this plan.

33.0 Liquids

Liquid wastes will consist mainly of well purge water and decon water. The primary health risks associated with handling liquid wastes will be the potential for skin contact and inhalation of organic vapors. Therefore, individuals handling liquid wastes will comply with the personal protective equipment requirements specified in this plan or MSDS documents at the site.

34.0 Sludges/Residual Solids

Sludge's will be generated during execution of this project in the form of the drill cuttings and liquids. They will be placed in UN-approved drums.

35.0 Gaseous Wastes

It is not anticipated that gaseous wastes will be generated during execution of this project. Any detection of volatile organics will be handled in accordance with established standards. If noxious odors are detected during field activities, air monitoring will be conducted to determine the appropriate level of respiratory protection.

36.0 Hazard Classification

The following sections discuss the hazard classifications that may be expected at the site.

37.0 Heat/Cold Stress

The adverse stress to the body due to exposure to excess heat can greatly diminish the ability of the body to function properly. Therefore, all personnel involved in work activities will be monitored for heat stress disorders in accordance with the guidelines specified in this plan. Cold stress is not anticipated to be a problem.

38.0 Corrosive

Corrosive wastes are not expected to be encountered.

39.0 Ignitability/Explosibility

Generated wastes are not expected to be combustible or flammable.

40.0 Radioactive

Radioactive wastes are not expected.

41.0 Volatile

Volatile wastes might be found in soil and groundwater at the drilling locations.

42.0 Toxic

Toxicity is dependent on several factors such as quantity, concentration, and physical or chemical characteristics. Toxicity of known compounds previously detected at the site are discussed in Table 1.

43.0 Reactive

A reactive material is one that can undergo a chemical reaction when influenced by an outside source such as heat, air, or water, resulting in chemical changes. Wastes from the site are not expected to have reactive properties.

44.0 Biological

There are a variety of biological hazards to which personnel might be exposed while performing work. These hazards may include animal bites, insect stings, contact with poisonous plants and exposure to pathogenic (disease producing) microorganisms. Serious and/or threatening chemicals and physical hazards frequently overshadow any potential exposure to biological hazards. However, specific biological hazards can cause injury. Therefore, when appropriate, such hazards will be identified and evaluated in conjunction with all other actual or potential hazards associated with an operation and steps taken to control exposure.

45.0 Chemical Usage at the Site

Chemical compounds have specific properties which determine the type and degree of hazard they represent. No chemicals will be used in decontamination of drilling equipment or other field activities other than the tracer gas used during the soil gas survey.

46.0 Routes of Exposure

The following sections discuss various routes of exposure that may occur if chemicals are present.

47.0 Inhalation

The most common route of toxic material entry is through the respiratory tract by inhalation. Therefore, when controlling occupational hazards, the primary objective is to prevent atmosphere contamination. This should be accomplished through the use of engineering controls whenever feasible. When effective engineering controls are not feasible, appropriate respirators should be used.

48.0 Ingestion

Ingestion of toxic materials occurs by contact with toxic materials on a person's hands, food, drink, cosmetics, or cigarettes. Materials ingested pass through the stomach and may be absorbed into the blood stream. All project personnel will follow guidelines established in this plan for use of personal protective equipment and personal hygiene standards.

49.0 Absorption

Absorption of toxic materials may occur through the penetration of the skin. Personnel will utilize personal protective equipment in accordance with this plan.

50.0 Training Program

Comprehensive training and instruction is provided to personnel on an initial and periodic basis. Training certificates for personnel who will be working on this project are on file. Copies of training certificates will be provided if requested. All persons on-site will be required to read the entire Site Specific Health and Safety Plan. Workers shall sign a statement stating that they have been familiarized with the contents of this safety plan and agree to abide by the policies and procedures stated in this plan. Personnel will be required to attend daily safety meetings.

51.0 Emergency Response and Contingency Plan

The general procedures to be followed in an emergency are discussed in this section. Emergency response agencies and telephone numbers are listed below.

- General Emergency: 911 or (650) 299-2015 (Hospital - Life Threatening)
- Fire Department: 911

- Police Department: 911
- Ambulance 911
- Hospital: O'Connor Hospital
  2105 Forest Avenue, San Jose, CA
  (408) 947-2666

Directions to Hospital from Job Site:

See hospital route map and directions at end of this HASP.

Alternate medical facility: Valley Medical Center, 751 S. Bascom Avenue, San Jose, CA (408) 885-5000 (See hospital route map and directions at end of this HASP).

- Environmental Protection Agency: (415) 744-1500
- National Spill Response Center: (800) 424-8802
- Poison Control Center: (707) 527-7177

A list of emergency numbers with contact personnel will be available at the site..

52.0 Accident Prevention Program

A discussion of the drilling contractor's accident prevention program will be held.

53.0 Substance Abuse Prevention Program

In order to provide a safe work environment, GRI will enforce a Substance Abuse Prevention Program. It is not acceptable for any project personnel to be intoxicated or under the influence of alcohol or controlled substance drugs while at work; to use or possess or sale controlled substance drugs in any quantity while on company/project premises; except to use medications prescribed by a physician which do not impair work performance.

If the Field Supervisor or Project Manager suspects any project worker of being under the influence, that worker will be requested to submit to drug and alcohol testing. If required, random drug/alcohol testing will be performed throughout the contract duration. Whenever use or abuse of any mood altering substance (such as alcohol or other drugs) interferes with a safe workplace, appropriate action will be taken. Any project worker found in possession of, selling or testing positive for mood altering substances at the workplace, or coming to work under the influence of such substances will in violation of safe work practices and will be subject to immediate removal from the job site and possible termination of employment.

54.0 Personal Protective Equipment

The Site Health and Safety Officer (SHSO) will be responsible for determining required personal protective equipment (PPE). The potential for contact will be limited primarily to the hands and feet. Coincidental contact with the body may also occur.

It is anticipated that a majority of the work to be conducted under this contract will be conducted in Level D, Modified Level D, and Level C (primary work level). Level B protection can be made available, but is not anticipated for the work tasks involved with this project. Level B work will not be conducted without modification to the site safety plan. The following table shows the equipment ensemble guidelines that have been established:

Level D	Modified Level D	Level C
Normal work clothing (long sleeve shirt or coveralls)	Level D equipment, plus	Modified Level D, plus
Hard hat (if overhead hazards are present)	Tyvek or PE coated Tyvek suit	Tyvek or PE coated Tyvek suit
Safety glasses or goggles	Neoprene gloves for acid	Neoprene or Nitrile gloves for acid; safety glasses or goggles or face shields
Steel-toed/shank boots	PVC steel toed boots	PVC steel toed boots
Hearing Protection (if necessary)	Hearing Protection (if necessary)	Hearing Protection (if necessary)
		Air-Purifying full-face respirator with Acid Gas (white) HEPA filter (purple) combined cartridges

Evacuation Levels - Evacuation of the site and reevaluation of site conditions and PPE requirements will begin immediately upon recognition and confirmation of any of the air monitoring results in the table below.

Upgrades and/or downgrades in PPE will be determined by the SHSO. Changes in PPE will be based on the presence of acid or other hazardous material presence. The action levels for upgrading the level of PPE are as follows:

Level of Protection

	Level D	**Level C**	**Evacuation Levels**
O_2	19.5-23%	19.5-23%	< 19.5% or 23%

55.0 Sanitation

Sanitation facilities for the site work force are available.

56.0 First-Aid

Vehicles used for site work will be equipped with a first-aid kit and safety equipment including:

- fire extinguisher;
- flashlight;
- drinking water;
- portable eye wash.

During the administration of any first-aid, first-aid providers will utilize universal precautions when treating injuries. Where exposure to blood and/or body fluids occurs, the requirements of CCR, Title 8, Section 5193, “Blood borne Pathogens,” will be followed.

57.0 Work in Confined Space

This condition is not anticipated for this project. Work will be completed only by trained and certified personnel should confined space conditions be encountered.

58.0 Site Control

Site control measures will be coordinated with the site representative.

59.0 Boundaries

The creation of boundaries around work zones will be the responsibility of the site supervisor and will be designated at each work location. The work zones will be clearly marked with barricades/barricade tape and signs visible from all directions, if needed.

60.0 Zones

Work zones will be established as required.

61.0 Exclusion Zone

An exclusion zone will be maintained around each work location by placement of signs, barricades and/or barricade tape as necessary. The size and shape of the exclusion zone will be determined by the conditions on the site, and will be large enough to encompass the potentially hazardous zone around the work site. The buddy system will be utilized whenever possible while work is being performed within the exclusion zone.

62.0 Contamination Reduction Zone

The contamination reduction zone will contain:

- Personnel decontamination station;
- Equipment decontamination station;
- Plastic sheeting on which to place and segregate reusable equipment;
- Wash basins, decontamination solutions, scrub brushes and a water source for the decontamination of reusable equipment;
- Emergency response and first-aid equipment, including a portable eyewash, and fire extinguishers;
- Clearly marked trash bags for the placement and disposal of expendable items such as gloves and protective clothing.

63.0 Support Zone

The support zone will consist of the area outside of the contamination reduction zone. Eating, drinking and smoking will be allowed only in this zone. All non-essential personnel and persons not directly involved in site work activities shall remain in the support zone at all times.

64.0 Entry-Exit Procedures

All personnel will enter and exit the exclusion zone through the contamination reduction zone.

Any item taken into the exclusion zone will be assumed to be contaminated and will be decontaminated before the item leaves the area.

The implementation of work zones facilitates compliance with the closure objectives. Therefore, exclusion, contamination reduction, and support zones will be created at the work site. Movement of personnel and equipment between the zones will be controlled. This physical arrangement will keep the contaminants within the specified areas, reduce the potential for the contamination to spread, minimize potential contamination of workers and communicate the individual site control to all personnel at the site.

65.0 Site Security

Site security and site control will be the responsibility of the Site Supervisor with assistance from all personnel that may notice any non-routine activities or notice individuals on the site that have not been identified as GRI employees or subcontractors.

66.0 Decontamination

GRI will establish and maintain a comprehensive decontamination program throughout the project. The decontamination program will be designed for the employees and equipment of GRI, its subcontractors, and other authorized personnel within the work area. The goals of a decontamination program are to reduce or eliminate the possibility of contaminant exposure to personnel working within or occupying areas nearby the project boundaries and to reduce or eliminate the potential for offsite migration of contaminants. As part of the decontamination program, GRI will construct and operate equipment and personnel decontamination facilities at the worksite, as needed.

Personnel decontamination stations will be constructed by laying plastic sheeting on the ground. The stations will be equipped with wash buckets and brushes for personnel and small equipment decontamination. A trash receptacle will also be available.

All liquids generated during decontamination activities will be properly collected, stored, and disposed.

The decontamination fluids from the wash buckets and rinse buckets will be collected in UN-Approved drums, properly labeled, and temporarily stored on site until disposed.

67.0 Hearing Conservation Program

At this time no adverse noise impacts to workers or to the public are anticipated to result from site operations. At the discretion of the Site Health and Safety Officer, noise monitoring may be implemented. The action level is 85 dBA. Such monitoring will be introduced if noise conditions are greater than anticipated. Alternatively, hearing conservation measures such as distribution of ear plugs (mandatory during drilling) may be implemented in the absence of noise monitoring if it is deemed necessary by the Site Health and Safety Officer.

68.0 Respiratory Protection Program

The use of respirators at the site is anticipated. During field activities, the level of personal protective equipment will include respiratory protection that protects workers from mists, vapors, and particulates.

69.0 Exposure Monitoring and Air Sampling Plan

A site inspection will be performed prior to commencement of each work day. Additionally, the site will be monitored under the supervision of the SHSO during the initial phases of work operations and when conditions at the site change. Direct reading instruments (DRI) will be used to detect the presence of organic vapors. These DRIs will consist of an organic vapor monitoring instrument (i.e. a photo ionization monitoring instrument) and O_2 meter for confined space work.

All monitoring equipment will be calibrated on a per use or daily basis unless specified otherwise by the manufacturer. Maintenance, including factory maintenance, will be conducted per the manufacturer's specifications. Calibration and maintenance operations will be recorded in a log and maintained for inspection, if requested.

Only qualified individuals will be authorized to conduct air monitoring at the project sites. These individuals will typically include the SHSO and/or a Certified Industrial Hygienist (CIH). Qualified personnel will be knowledgeable of the limitations and accuracy of the specific monitoring equipment being utilized.

Sampling strategies are highly variable depending upon the specific operations being conducted on site. However, the primary objective is to periodically or continuously monitor the working environment (i.e. breathing zone), and possible exposure to offsite receptors.

The DRIs will be used as work zone and breathing zone monitoring devices during intrusive excavation and as general area monitors when intrusive operations are not being performed. The results of the DRI monitoring will be recorded in a log book and will be used to assess the adequacy of the level of personal protection and hazard management procedures listed in this plan.

If monitoring results indicate that the organic vapor concentrations exceed action levels, appropriate measures will be taken by the Site Health and Safety Officer to ensure worker safety, public health, and regulatory compliance. Such measures may include, but are not

limited to, modifications to the level of protection and implementation of further engineering controls.

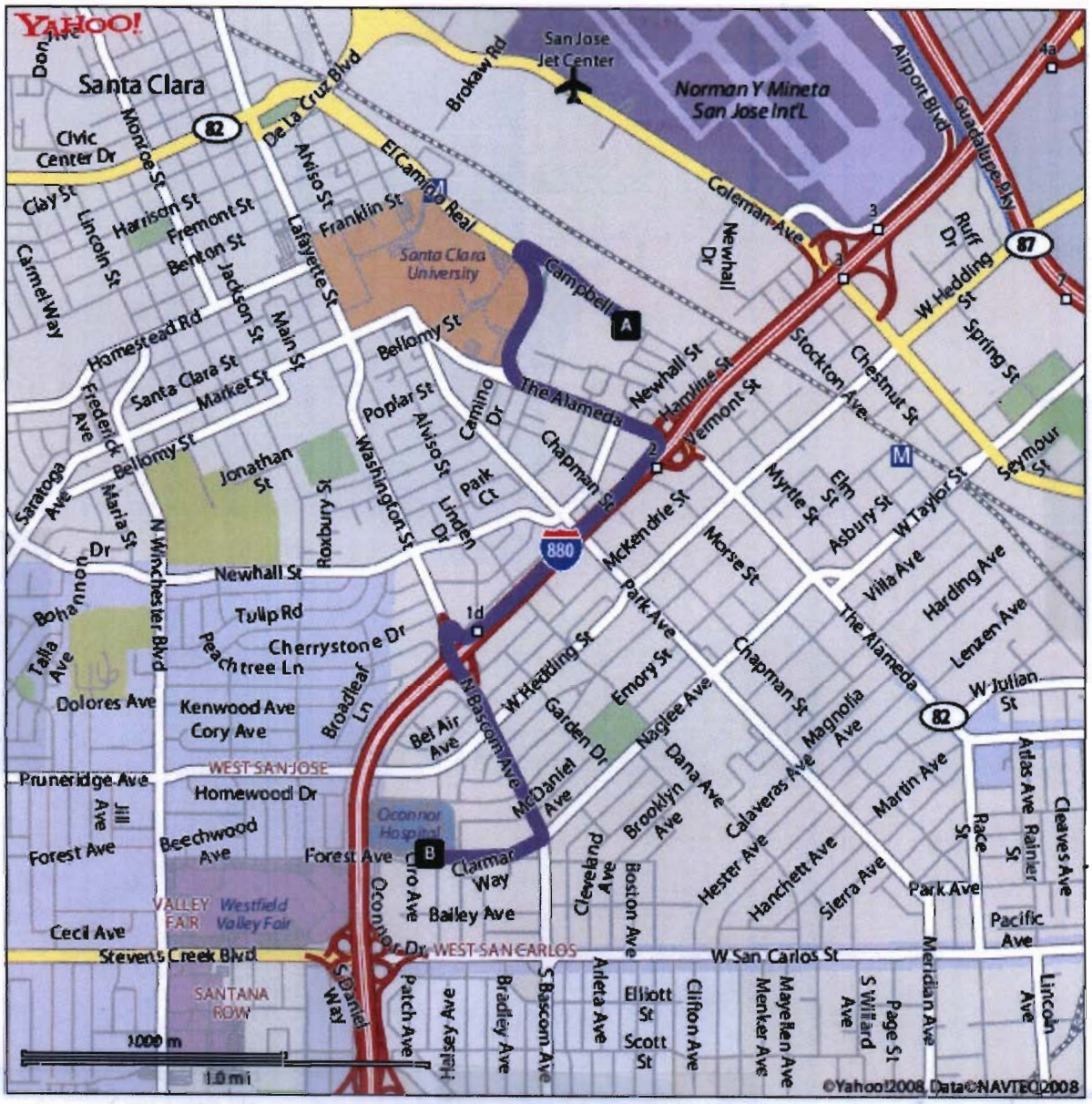
Care will be taken to avoid dusty conditions resulting from work activities. The presence and concentration of dust, if any, will be monitored in accordance with the Site Health and Safety Plan. Fugitive dust will be monitored by site personnel, and mitigated as needed.

Any offsite release or suspected offsite release of hazardous substances must be immediately reported to the Site Health and Safety Officer and Project Manager. Any suspected exposure to hazardous substances resulting from PPE failure, accident, or other reason will be reported to the SHSO.

70.0 Illumination

No work is expected to be performed after dark, but work will occur within buildings. Adequate lighting will be provided in work areas. Should work occur after darkness or within buildings, portable spotlights will be used to maintain at least 10 to 20-foot candle light at the site.

HOSPITAL ROUTE MAPS



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GRI
585 Emory Street
San Jose, California

Hospital Route Map

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GRI
585 Emory Street
San Jose, California

Hospital Route Map

APPENDIX C

RESPONSE TO COMMENTS

Former AJ Commercial Laundry - 1173-1175 Campbell Avenue, San Jose, CA

Response to Comments - Workplan for Soil Gas and Groundwater Sampling - 1173-1175 Campbell Avenue, San Jose, CA

DTSC (Geological Services Unit) Comments - 1/08/15

Comment #	Comment	Response
1.	The Workplan should include a Sampling and Analysis Plan (SAP) for soil vapor and groundwater sampling. The information contained in Appendices A and B is incomplete with respect to sample collection and handling procedures and laboratory quality assurance/quality control (QA/QC). Please provide a SAP that conforms to the level of detail provided in Appendix A of the Revised Site Investigation Workplan prepared for this site by GeoRestoration, lnc. and dated August 11, 2011. The existing SAP may be referenced, where applicable, and modified to fit the current objectives of the project, including soil vapor sampling and analysis. The Workplan states that the data from the soil vapor investigation will be used to estimate indoor air concentrations for risk assessment purposes. However, it does not include risk assessment procedures and it is unclear if the data will be adequate to perform risk analysis from a risk assessment perspective. It is recommended that references to risk assessment be removed from the Workplan. The purpose of the soil vapor sampling should be to obtain data for monitoring the effectiveness of previous remedial actions conducted to-date.	GRI has revised the SAP to the level of detail as the August 2011 SAP. Reference to using data for risk assessment has been deleted. The workplan has been revised to indicate sampling data will be used for monitoring the effectiveness of previous remedial actions.
2.	Soil Gas Survey	
2 a.	The text states that Table 1 includes the rationale for obtaining each sample. However, this information is not included on the table. Please include the rationale for each sample on Table 1.	Table 1 has been revised to include the rationale.
2 b.	It is recommended that three additional soil vapor probes be added to the investigation: one located near former SG-15 and two located on the property boundary, due east of proposed SG-16 and SG-19.	Location SG-15 and two additional sampling point SG-20 and SG-21 have been added.
2 c.	The text states that a field "duplicate" sample will be collected for laboratory testing using a sorbent tube. However, analysis of a sorbent tube by a different analytical method at a stationary laboratory does not provide a "duplicate". What purpose will this sample serve?	A duplicate sample for offsite laboratory confirmation is not necessary. Therefore, reference to this duplicate has been removed.

DTSC (Geological Services Unit) Comments - 1/08/15

Comment #	Comment	Response
2 d.	It is recommended that the tracer (i.e., 1,1-difluoroethane) be sprayed onto rags and placed around the probe and sample train- rather than being sprayed directly on the equipment. Please revise the text to elaborate on this procedure.	TEG is planning to spray tracer gas into the shroud and not directly onto sampling elements per April 2012 guideline figure C-1.
2 e.	The text states that sample location SG-15 may be used for the purge test. However, a soil gas sample designated SG-15 is not included on the Figure 2 showing proposed probe locations for this investigation. Please add location SG- 15 to the figure.	As mentioned in response 2b, location SG-15 has been added to the sampling. GRI will keep this location as the purge test location.
3.	Groundwater Sampling	
3 a.	It is recommended that well MW-25 be added to the list of wells proposed for sampling. This well has previously been found to contain high levels of petroleum-related aromatic hydrocarbons.	Well MW-25 has been added to the list of wells proposed for sampling in Table 1.
3 b.	It is recommended that all wells be analyzed for total petroleum hydrocarbons using USEPA Method 8015M, in addition to volatile organic compounds using USEPA Method 8260B.	This test has been added to the field sampling project.
4.	Section 4.1 - Laboratory Analysis. This section should not be a subsection under Section 4.0 - Groundwater Sampling, as it discusses both soil gas and groundwater analytical methods. Please revise the section numbering	The workplan has been revised per the comment. The section number is now 5.0 and following sections have been renumbered.
5.	Section 5.0 - Reporting. The site investigation report should also included boring logs, soil vapor probe completion details, data from and results of the purge volume test, soil vapor sampling records, and groundwater sampling records. Please revise the text to include this information.	The text has been revised to include this information. See Section 6.0.
6.	Section 6.1 - Field QA/QC (quality assurance/quality control). Please include the collection of one equipment blank per day (or one per 20 samples, whichever is greater) for reusable glass syringes and groundwater sampling equipment. Also, specify that laboratory supplied trip blanks will accompany groundwater samples at a frequency of one per cooler.	The text has been revised to include this information. See Subsection 7.1.
7.	Appendix A - Soil Gas Sampling and Sample Handling Procedures	
7 a.	The information contained in this appendix is incomplete. Additional details on field sampling methods and analytical laboratory QA,/QC are needed (see Comment 1).	The workplan has been revised to add the additional information requested in Comment 1.
7 b.	Soil gas sample probe numbering should be revised so the different samples do not have duplicative nomenclature. Please revise the proposed soil vapor probe numbers to clearly distinguish them from earlier samples collected at similar locations.	The sample numbers have been revised. The sample locations will have an “-1” added. So the sample collected near previous sample SG-1 will now be location/sample number SG-1-1

Comment #	Comment	Response
7 c.	Please specify the equipment that will be used to advance the boring for soil vapor probe installation. If hand-augers are used, the probe must equilibrate for 48 hours prior to purging and sampling. For direct push installations, a two hour equilibration time is sufficient.	Direct push equipment will be used to install the soil vapor probes and the two-hour equilibrium time will be followed. The workplan sampling points were going to be temporary (one time) sampling locations. However, as the soil gas contractor is now booked until at least mid April, GRI is now proposing to install permanent sampling points that can be used for future sample collection. This also would not further delay a restart of remediation of the site that is a priority for the site owner.
7 d.	The borings for soil vapor wells should be continuously logged under the direct supervision of a professional geologist. Details of vapor probe construction should be recorded on the logs or on separate field forms.	Borings will be continuously cored. If not accessible by a geo-probe, then hand held equipment will be used to construct the direct push sample point. If completed by hand, continuous cores may not be possible, but attempt will be made to obtain a small diameter soil core from the base of the boring to describe soil near the probe tip.
7 e.	The method for emplacement of the hydrated bentonite should be described. Per DTSC's Soil/Gas Advisory (April 2012), it is recommended that a bentonite grout be mixed at the surface and then slowly poured into the borehole.	This method of sealing will be used.
7 f.	The third paragraph discusses sub-slab sampling. For the purposes of this investigation, it is recommended that all samples be collected at a depth of five feet below ground surface (bgs). If occupied buildings are being investigated for vapor intrusion risks, a separate work plan should be prepared or a more detailed discussion of how risks will be evaluated should be included in the Workplan.	The samples are proposed for collection at a depth of five feet and data used to determine remediation progress rather than for risk determination.
7 g.	Please specify that air-tight glass syringes will be used for sample collection. Glass syringes with Teflon@ seals are preferred. Syringes should be checked for leaks before each use by closing the exit valve and attempting to force ambient air through the needle. Glass syringes should be leak tested periodically to verify integrity with age.	This was discussed with the lab operator and the protocols requested are followed. See Appendix A.
7 h.	Do not subject syringe samples to extreme temperatures. Heat can cause compound degradation and leakage from the syringe. Cold can cause moisture condensation, which can affect the recovery of target analytes. If condensation is observed, the sample should be discarded and a new sample should be collected.	This was discussed with the lab operator and the protocols requested are followed. See Appendix A.
7 i.	Proper decontamination of sample syringes should be performed by the laboratory. Equipment blanks should be analyzed to verify and evaluate the effectiveness of decontamination procedures. At a minimum, one equipment blank should be run per 20 sample syringes cleaned, or at least one per day.	This was discussed with the lab operator and the protocol requested is followed. Equipment blank analysis is discussed in Subsection 7.1 and Table 1.

DTSC (Geological Services Unit) Comments - 1/08/15

Comment #	Comment	Response
7 j.	Please specify that one purge volume includes the following volumes: The internal volume of tubing; the void space of the sand pack around the probe tip; and; the void space of the dry bentonite in the annular space. Include the purge test data in the report to support the purge volume selection.	This was discussed with the lab operator and the purge volume will include the requested volumes and the information will be presented in the report.
7 k.	Please specify that one duplicate sample will be analyzed per day by the mobile laboratory.	Workplan revised to add this item. See Appendix A.
7 l.	If sorbent tube samplers are proposed, detailed procedures for sample collection and handling should be provided in the Workplan along with analytical laboratory QA/QC.	Sorbent tube samplers have been removed from the workplan.
7 m.	Please specify that the leak check compound (1,1-difluoroethane) will be analyzed and reported at the reporting limit of the target analytes per DTSC's Soil Gas Advisory (April 2012) which states: "The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes. lf the concentration of the leak check compound is greater than or equal to 10 times the reporting limit for the target analyte(s), then corrective action is necessary...'	The referenced statement from DTSC's Soil Gas Advisory (April 2012) applies to liquid tracer compounds (Section 4.2.2.1). GRI intends to use difluoroethane in the gaseous phase introduced into a shroud. Therefore, DTSC's Soil Gas Advisory (April 2012: Section 4.2.2.2) indicates breakthrough less than 5 percent is acceptable. When TEG introduces difluoroethane gas into the shroud, the concentration of difluoroethane will be more than 1,000,000 $\mu g/m^3$. The reporting limit of 10,000 $\mu g/m^3$ for difluoroethane will allow monitoring of breakthrough less than 5 percent.
7 n.	Please describe the surface cap that will be used to protect the vapor probe after soil gas sampling is completed.	A permanent sampling well will have a five inch vault with a cap that is secured with Allen screws and a rubber cap gasket. The soil gas tubing will have an air-tight end cap or valve.
7 o.	The first bullet on page A-2 should be revised to indicate that leak test will be performed during purging and sample collection at each soil vapor probe.	Workplan revised to add this item.
7 p.	Please provide a diagram of the above-ground assembly including the shroud and placement of the rags soaked with leak check compound.	A diagram showing the sampling apparatus with a shroud has been included as Figure A-1. However, no rags soaked with leak check compounds will be used.
7 q.	Sub-slab samples are not recommended for this investigation. Please do not install probes shallower than 5 feet bgs.	No sub-slab sampling will be performed. All sample depths were listed as being at a depth of five feet in Table 1.
7 r.	Revise the reporting limit for 1,1-difluoroethane on the table of reporting limits and add the appropriate screening levels to the table for comparison, including RWQCB's ESLs for TPH.	See response to Comment 7 m.
8.	Appendix B - Groundwater Monitoring Well Sampling Procedures. The information contained in this appendix is incomplete. Additional details on field sampling methods and analytical laboratory QA/QC are needed (see Comment 1).	The workplan has been revised to add the additional information requested in Comment 1.

March 11, 2015

Mr. Alex Lee
Department of Toxic Substances Control
700 Heinz Street
Berkeley, CA 94710

Re: Well Decommissioning Completion Report
Former Custom Food Machinery Site
1180, 1182 and 1184 Campbell Avenue, San Jose, California
ENVIRON Project No. 03-15193A

Dear Mr. Lee:

On behalf of Robson Homes LLC (Robson Homes), ENVIRON International Corporation ("ENVIRON") has prepared this completion report for the decommissioning of groundwater monitoring wells at the property located at 1180, 1182 and 1184 Campbell Avenue in San Jose, Santa Clara County, California ("Site," Figure 1).

In February 2014, a *Five-Year Review Report* was submitted to DTSC, summarizing groundwater monitoring results for the previous five year period and recommending cessation of the groundwater monitoring program (ENVIRON 2014a). In a letter dated June 27, 2014, DTSC accepted the Five-Year Review Report and approved the recommendation to cease groundwater monitoring at the Site. The letter requested that if monitoring is to cease, the six existing monitoring wells at the Site should be decommissioned, and a work plan for well decommissioning should be submitted to DTSC. The well decommissioning work plan, dated August 5, 2014, was submitted to DTSC and was approved in DTSC's letter dated November 5, 2014. This report documents the methods and materials used to complete the well decommissioning activities. The wells were properly abandoned in place on December 23, 2014 under the oversight of a Santa Clara Valley Water District (SCVWD) permit inspector.

Monitoring Well IDs, Construction Details, and Decommissioning Methods

The six former groundwater monitoring wells at the Site were identified as MW-2A, MW-3A, MW-4A, MW-5A, MW-6A, and MW-10A. The wells were all constructed of four-inch diameter polyvinyl chloride (PVC) casing and milled slot screens, with a total borehole depth of 29 feet below ground surface (bgs). Total casing depths ranged from 28 to 28.5 feet bgs and screened intervals extended from 6 feet bgs to the bottom of the well casing. A summary of monitoring well construction details is provided in Table 1 and the former well locations are shown on Figure 2.

The six groundwater monitoring wells were properly abandoned in place by filling with neat Portland cement grout, in accordance with Santa Clara Valley Water District (SCVWD) well standards and well destruction permit regulations. Well decommissioning materials and procedures are described below.

Pre-Field Activities

Prior to initiating monitoring well decommissioning activities, well destruction permits were obtained from SCVWD. Approved well destruction permits are provided as Attachment A. ENVIRON updated the existing health and safety plan (HASP) for groundwater monitoring at the Site to include the well decommissioning activities. ENVIRON retained Penecore Drilling, Inc., a C-57 licensed drilling company, to perform the well decommissioning work.

Well Decommissioning Materials and Methods

In accordance with SCVWD well destruction standards and permit regulations, the wells were properly abandoned in place using procedures consistent with the SCVWD Summary of Well Standards. The wells were filled with neat 21-sack Portland cement grout emplaced from the bottom up using a PVC tremie pipe. The grout mixing methods and grout to water ratio were approved by the SCVWD permit inspector. Due to a malfunctioning grout pump, the grout was poured manually into a funnel connected to the tremie pipe. A wet/dry vacuum was in place to recover any displaced groundwater rising to the top of the well casing, however this only occurred at one of the well sites (MW-5A) and the displaced groundwater only amounted to approximately two gallons. This water was used to mix concrete for surface patches, as described below.

Based on instruction from the SCVWD permit inspector, the monitoring wells were filled with grout until at least 133% of the total casing volume of grout had been tremied into the well. At each of the wells, more than 133% of the total casing volume of grout was used before the grout appeared at the top of the well casing. Because the minimum grout volume requirement was met at each well, the SCVWD inspector indicated that pressurization of the grout within the well casing was not required. The grout volume used for each of the wells was recorded on a field data sheet. Field data sheets are provided as Attachment B.

After grouting was completed, the monitoring well vault boxes and concrete aprons were removed using a jackhammer. Using a power drill equipped with an internal pipe cutter, the exposed PVC casing material at each well was cut down 4 to 6 inches to a final depth of approximately 8 to 12 inches below grade. The well locations were then patched with concrete, which was dyed black at the surface to match the surrounding asphalt. At MW-5A, approximately two gallons of displaced groundwater was recovered during grouting. With the approval of the SCVWD inspector, this volume of groundwater was mixed with concrete for patching the well locations. Waste materials including well boxes, concrete, and PVC were disposed at a municipal landfill. Well destruction completion notices issued by the SCVWD permit inspector are provided as Attachment C.

California Department of Water Resources Well Completion Forms

A California Department of Water Resources Well Completion Form 188 (DWR 188) was completed for each of the decommissioned monitoring wells and was submitted to SCVWD as a condition of the well destruction permits. Copies of the DWR Forms are provided as Attachment D.

Closure

ENVIRON and Robson Homes have appreciated DTSC's responsiveness and service over the course of the groundwater monitoring activities at this site. With the destruction of the six remaining groundwater monitoring wells as described in this report, all groundwater monitoring activities for this site are considered to be concluded. Please contact me at (510) 655-7400 if you have any questions about this report.

Very truly yours,

Anne Wooster Gates, P.E.
Senior Manager

cc: Mark Piros, DTSC
Jake Lavin, Robson Homes

Attachments:

Table 1 – Summary of Monitoring Well Completions

Figure 1 – Site Location

Figure 2 – Former Groundwater Monitoring Well Locations

Attachment A – SCVWD Monitoring Well Destruction Permits

Attachment B – Well Abandonment Field Data Sheets

Attachment C – SCVWD Well Destruction Completion Notices

Attachment D – Completed DWR 188 Well Destruction Forms

References

Department of Toxic Substances Control (DTSC), 2011. *Revised Groundwater Monitoring Program for 1180, 1182 and 1184 Campbell Avenue Site in San Jose, California*. December 20.

DTSC, 2014a. *Approval of First Five-Year Review Report, Former Custom Food Machinery Site, 1180-1184 Campbell Avenue, San Jose, California*. June 27.

DTSC, 2014b. *Approval of Work Plan for Well Decommissioning, Former Custom Food Machinery Site, 1180-1184 Campbell Avenue, San Jose, California.* November 5.

ENVIRON, 2006. *Ground Water Operation and Maintenance Plan for the Property Located at 1180, 1182, and 1184 Campbell Avenue, San Jose, California.* November.

ENVIRON, 2014a. *First Five-Year Review Report, Former Custom Food Machinery Site, 1180-1184 Campbell Avenue, San Jose, California*. February.

ENVIRON, 2014b. *Work Plan for Well Decommissioning, Former Custom Food Machinery Site, 1180-1184 Campbell Avenue, San Jose, California.* August 5.

T A B L E

TABLE 1: SUMMARY OF MONITORING WELL COMPLETIONS
Groundwater Monitoring Report
1180, 1182, and 1184 Campbell Avenue, San Jose, California

Well [1]	Installation Date	Elevation of Survey Point (feet amsl) [2]	Total Depth (feet bgs)	Casing Material	Casing Diameter	Screen Slot Size	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)
MW-2A	12/6/2006	64.29	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-3A	12/7/2006	64.83	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-4A	12/7/2006	64.84	28.5	PVC	4"	0.020"	8.5 - 28.5	6.0 - 29.0
MW-5A	12/7/2006	65.17	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-6A	12/8/2006	64.95	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-10A	12/8/2006	64.00	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0

Notes:

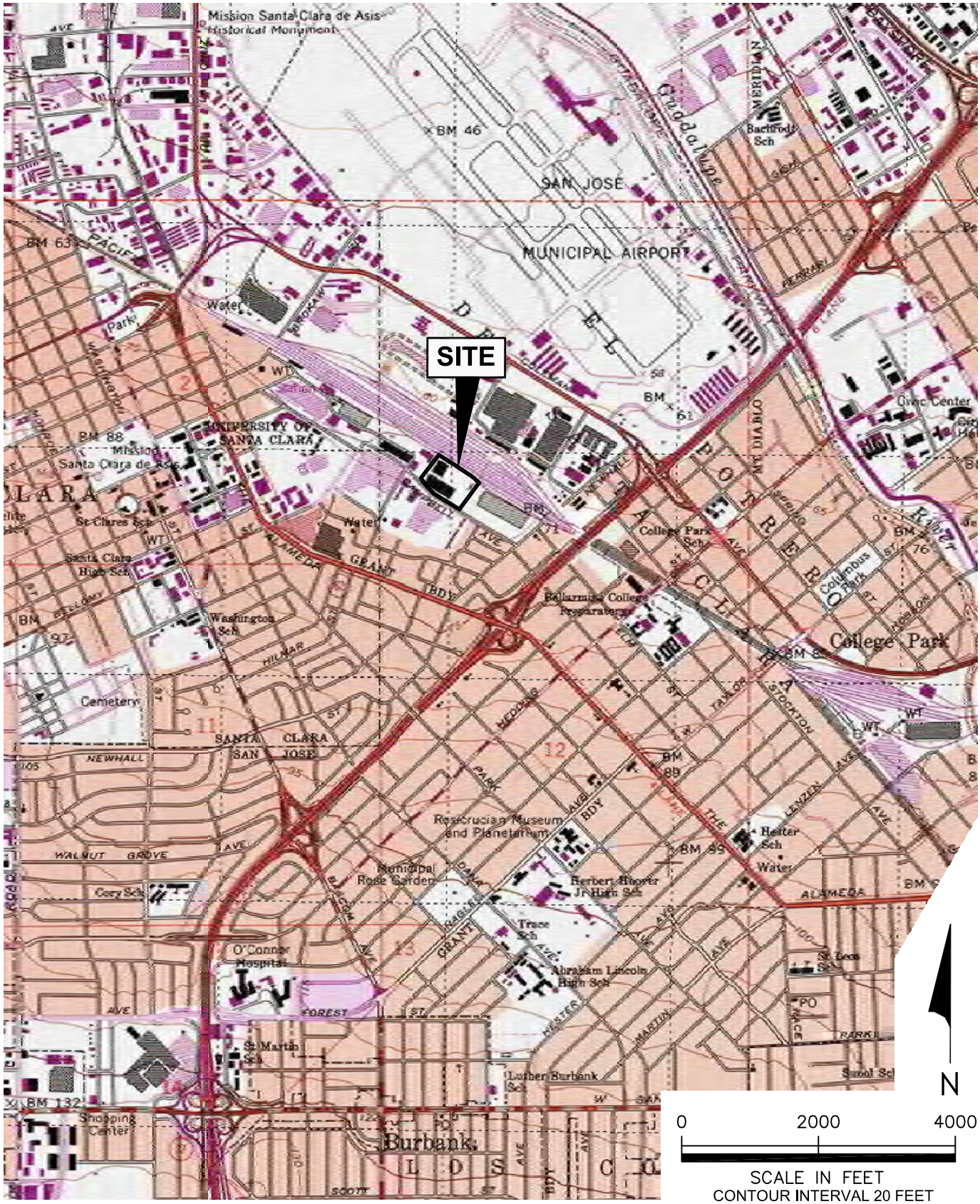
[1] In general, monitoring wells were constructed to replicate former monitoring well network including locations, depths, screened intervals, and slot size. Locations were slightly adjusted to accommodate Site redevelopment plans.

[2] Survey of monitoring wells was performed by HMH Engineers of Oakland, California on January 17, 2007.

feet amsl: feet above mean sea level

feet bgs: feet below ground surface

FIGURES



SOURCE: USGS Map 7.5 Min Series (Topographic) SAN JOSE WEST QUAD, California, 1979-1980, National Geographic Topo 2001.

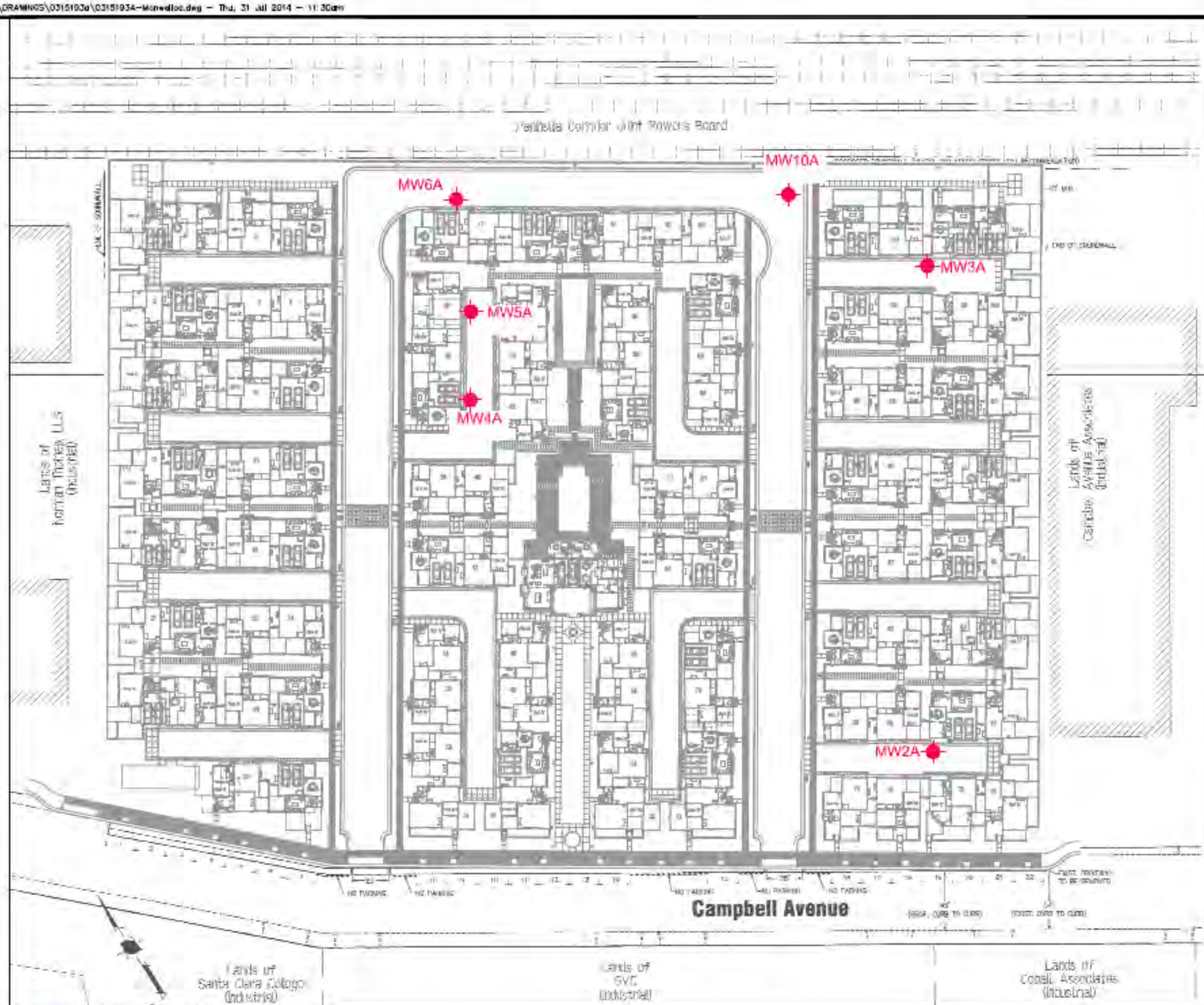
Q:\DRAWINGS\0315193a\0315193a-sanjose-VICMAP.dwg – Wed, 09 Jan 2013 – 5:01pm

ENVIRON

Site Location Map
Santa Clara Development Co.
1180, 1182 and 1184 Campbell Ave
San Jose, California

Figure
1

Drafter: RS | Date: 1/8/13 | Contract Number: 03-15193A | Approved: | Revised:



EXPLANATION:

MW3A Current Ground Water Monitoring Well

GRAPHIC SCALE

(IN FEET)

ENVIRON

Drafter: RS Date: 7/31/14 Contract Number: 03-15193A

Approved: Revised:

Current Site Layout and Groundwater Monitoring Well Locations
1180 - 1184 Campbell Avenue
San Jose, California

Figure
2

ATTACHMENT A

Groundwater Monitoring Well Destruction Permits

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 14D01327

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	Property Owner's Mailing Address: 77 Las Colinas Lane San Jose, CA 95119	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

Well Registration No.: 07S01W01N015	Owner/Consultant Well No.: MW-2A	Original Well Construction Permit No.: 06W00322
Well Casing Depth: 28 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED DEC 05 2014 S.C.V.W.D. WELLS

WELL TYPE/USE

☐ Water Production	☒ Monitoring	☐ Remediation	☐ Dewatering	☐ Heat Exchange	☐ Injection	☐ Cathodic Protection	☐ Other
☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other		

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:

1.	Outer conductor casing?	☐ Yes	☒ No
2.	Annular cement seal outside of casing at surface?	☒ Yes	☐ No
3.	A S.C.V.W.D. water meter attached?	☐ Yes	☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

Please describe in detail, the proposed destruction method (Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout):

Well will be abandoned by pressure grouting. Well will first be filled with neat 21-sack Portland cement emplaced from the bottom up using a tremie pipe. Any displaced groundwater rising to the top of the casing will be pumped into a drum for off-site disposal. After filling with grout, well will be pressure grouted with neat Portland cement at a pressure of at least 25 psi for a minimum of 5 minutes, or until at least 33% of the well casing volume of grout has been pumped into the well. After grouting, the well vault box and concrete apron will be removed and the well casing will be cut to a depth of approx. 1 foot below grade. The well location will then be patched with concrete.

SIGNATURES

I understand and agree that all work associated with this permit is required to be done in accordance with Santa Clara Valley Water District (District) Well Ordinance 90-1, the District Well Standards, and conditions of this permit (see page 4). I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I also certify that a right of entry/encroachment agreement has been formalized between the well owner and property owner, if parties differ.

Signature of Well Owner/Agent:	Print Name: Jake Lavin	Date: 12/3/14
Signature of Property Owner/Agent:	Print Name: Josh Bard	Date: 12/4/14
Signature of Driller/Agent:	Print Name: TUAN NGUYEN	Date: 12/1/14
Signature of Consultant/Agent (if any):	Print Name: Dan Clark, ENVIRON	Date: 12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

or

☒ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Kamb Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D0326	12-17-14	6-17-14	E0245574

Please allow 10 working days to process this application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 14D01326

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	Property Owner's Mailing Address: 77 Las Colinas Lane San Jose, CA 95119	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

Well Registration No.: 0750/W01 N016	Owner/Consultant Well No.: MW-3A	Original Well Construction Permit No.: 06W00323
Well Casing Depth: 28 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED
DEC 05 2014
S.C.V.W.D.
WELLS

WELL TYPE/USE	☐ WATER PRODUCTION	☒ MONITORING	☐ REMEDIATION	☐ DEWATERING	☐ HEAT EXCHANGE	☐ INJECTION	☐ CATHODIC PROTECTION	☐ OTHER
	☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other		

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:

1.	Outer conductor casing?	☐ Yes	☒ No
2.	Annular cement seal outside of casing at surface?	☒ Yes	☐ No
3.	A S.C.V.W.D. water meter attached?	☐ Yes	☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

Please describe in detail, the proposed destruction method (Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout):

Well will be abandoned by pressure grouting. Well will first be filled with neat 21-sack Portland cement emplaced from the bottom up using a tremie pipe. Any displaced groundwater rising to the top of the casing will be pumped into a drum for off-site disposal. After filling with grout, well will be pressure grouted with neat Portland cement at a pressure of at least 25 psi for a minimum of 5 minutes, or until at least 33% of the well casing volume of grout has been pumped into the well. After grouting, the well vault box and concrete apron will be removed and the well casing will be cut to a depth of approx. 1 foot below grade. The well location will then be patched with concrete.

SIGNATURES

I understand and agree that all work associated with this permit is required to be done in accordance with Santa Clara Valley Water District (District) Well Ordinance 90-1, the District Well Standards, and conditions of this permit (see page 4). I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I also certify that a right of entry/encroachment agreement has been formalized between the well owner and property owner, if parties differ.

Signature	Print Name	Date
Signature of Well Owner/Agent:	Jake Lavin	12/3/14
Signature of Property Owner/Agent:	Josh Bend	12/4/14
Signature of Driller/Agent:	TUAN Nguyen	12-1-14
Signature of Consultant/Agent (if any): Daniel C. Clark	Dan Clark, ENVIRON	12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

OR ☒ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Reeseth Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D01328	12-17-14	6-17-15	E0246669

Please allow 10 working days to process this application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 14D01329

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	77 Las Colinas Lane San Jose, CA 95119	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

0750/W01/M019	Owner/Consultant Well No.: MW-4A	Original Well Construction Permit No.: 06W00324
Well Casing Depth: 28.5 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED
DEC 05 2014
S.C.V.W.D.
WELLS

WELL TYPE/USE	☐ Water Production	☒ Monitoring	☐ Remediation	☐ Dewatering	☐ Heat Exchange		☐ Injection	☐ Cathodic Protection	☐ Other
	☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other			

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:				
	1.	Outer conductor casing?	☐ Yes	☒ No
	2.	Annular cement seal outside of casing at surface?	☒ Yes	☐ No
	3.	A S.C.V.W.D. water meter attached?	☐ Yes	☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

Please describe in detail, the proposed destruction method (Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout):

Well will be abandoned by pressure grouting. Well will first be filled with neat 21-sack Portland cement emplaced from the bottom up using a tremie pipe. Any displaced groundwater rising to the top of the casing will be pumped into a drum for off-site disposal. After filling with grout, well will be pressure grouted with neat Portland cement at a pressure of at least 25 psi for a minimum of 5 minutes, or until at least 33% of the well casing volume of grout has been pumped into the well. After grouting, the well vault box and concrete apron will be removed and the well casing will be cut to a depth of approx. 1 foot below grade. The well location will then be patched with concrete.

SIGNATURES

I understand and agree that all work associated with this permit is required to be done in accordance with Santa Clara Valley Water District (District) Well Ordinance 90-1, the District Well Standards, and conditions of this permit (see page 4). I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I also certify that a right of entry/encroachment agreement has been formalized between the well owner and property owner, if parties differ.

Signature	Print Name	Date
Signature of Well Owner/Agent:	Jake Lavin	12/3/14
Signature of Property Owner/Agent:	Josh Bend	12/4/14
Signature of Driller/Agent:	TUAN Nguyen	12-1-14
Signature of Consultant/Agent (if any):	Dan Clark, ENVIRON	12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

or

☒ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Vanden Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D01329	12-17-14	6-17-15	E0246667

Please allow 10 working days to process this application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 19D0330

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	Property Owner's Mailing Address: 77 Las Colinas Lane San Jose, CA 95119	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

Well Registration No.: 07S01W01N017	Owner/Consultant Well No.: MW-5A	Original Well Construction Permit No.: 06W00325
Well Casing Depth: 28 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED DEC 05 2014 S.C.V.W.D. WELLS

WELL TYPE/USE	☐ WATER PRODUCTION	☒ MONITORING	☐ REMEDIATION	☐ DEWATERING	☐ HEAT EXCHANGE	☐ INJECTION	☐ CATHODIC PROTECTION	☐ OTHER
	☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other		

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:

1. Outer conductor casing? ☐ Yes ☒ No
2. Annular cement seal outside of casing at surface? ☒ Yes ☐ No
3. A S.C.V.W.D. water meter attached? ☐ Yes ☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

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SIGNATURES

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Signature	Print Name	Date
Signature of Well Owner/Agent:	Jake Lavin	12/3/14
Signature of Property Owner/Agent:	Josh Bend	12/4/14
Signature of Driller/Agent:	TRAN Nguyen	12/1/14
Signature of Consultant/Agent (if any): Daniel C. Clark	Print Name: Dan Clark, ENVIRON	Date: 12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

or

☒ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Adams Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D01330	12-17-14	6-17-15	E0246668

Please allow 10 working days to process this application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 14D01328

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	Property Owner's Mailing Address: 77 Las Colinas Lane San Jose, CA 95119	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

Well Registration No.: 07S01W01M020	Owner/Consultant Well No.: MW-6A	Original Well Construction Permit No.: 06W00326
Well Casing Depth: 28 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED
DEC 05 2014
S.C.V.W.D.
WELLS

WELL TYPE/USE	☐ WATER PRODUCTION	☒ MONITORING	☐ REMEDIATION	☐ DEWATERING	☐ HEAT EXCHANGE	☐ INJECTION	☐ CATHODIC PROTECTION	☐ OTHER
	☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other		

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:

1.	Outer conductor casing?	☐ Yes	☒ No
2.	Annular cement seal outside of casing at surface?	☒ Yes	☐ No
3.	A S.C.V.W.D. water meter attached?	☐ Yes	☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

Please describe in detail, the proposed destruction method (Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout):

Well will be abandoned by pressure grouting. Well will first be filled with neat 21-sack Portland cement emplaced from the bottom up using a tremie pipe. Any displaced groundwater rising to the top of the casing will be pumped into a drum for off-site disposal. After filling with grout, well will be pressure grouted with neat Portland cement at a pressure of at least 25 psi for a minimum of 5 minutes, or until at least 33% of the well casing volume of grout has been pumped into the well. After grouting, the well vault box and concrete apron will be removed and the well casing will be cut to a depth of approx. 1 foot below grade. The well location will then be patched with concrete.

SIGNATURES

I understand and agree that all work associated with this permit is required to be done in accordance with Santa Clara Valley Water District (District) Well Ordinance 90-1, the District Well Standards, and conditions of this permit (see page 4). I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I also certify that a right of entry/encroachment agreement has been formalized between the well owner and property owner, if parties differ.

Signature	Print Name	Date
Signature of Well Owner/Agent:	Jake Lavin	12/3/14
Signature of Property Owner/Agent:	Josh Bend	12/4/14
Signature of Driller/Agent:	TUAN Nguyen	12-4-14
Signature of Consultant/Agent (if any): Daniel C. Clark	Dan Clark, ENVIRON	12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☐ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

or ☒ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Kanter Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D01327	12-17-14	6-17-15	E0246666

Please allow 10 working days to process this application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-26-13)

▶ Please complete all information.

DISTRICT PERMIT NO.: 14D01325

Well Owner: Santa Clara Development Company	**Property Owner:** Encanto Homeowners Association	Name of Business/Residence at Site: Encanto (a residential condo development)
Well Owner's Mailing Address: 2185 The Alameda City, State, Zip: San Jose, California 95126	Property Owner's Mailing Address: 77 Las Colinas Lane San Jose, CA 95117	**Address of Well Site:** 1180 Campbell Avenue City, State, Zip: San Jose, California 95126
Telephone No.: 408-345-1767 Jake Lavin	Telephone No.: 408-226-3300 Josh Bench	Assessor's Parcel No. of **Well Site:** Book 230 Page 14 Parcel 007

☐ Well on District property/easement (See General Condition E.)

Consultant: ENVIRON International Corp.	Drilling Company: Penecore Drilling Inc.	
Address: 2200 Powell Street, Suite 700 City, State, Zip: Emeryville, CA 94608	Address: 220 North East Street City, State, Zip: Woodland, CA 95776	
Telephone No.: 510-420-2563	Telephone No.: 530-661-3600	C-57 License No.: 906899
☐ Check if address or phone number has changed	☐ Check if address or phone number has changed	

▶ **All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.**

WELL INFORMATION

Well Registration No.: 07S01W01M021	Owner/Consultant Well No.: MW-10A	Original Well Construction Permit No.: 06W00327
Well Casing Depth: 28 feet	Total Boring Depth: 29 feet	Well Casing Diameter: 4 inches

This Section to Be Completed for All Monitoring Wells or Extraction/Recovery Wells

Case Name/No.: Former Custom Food Machinery/43200021	Caseworker Name: Alex Lee, DTSC
Oversight Agency: DTSC	Caseworker Telephone No.: 510-540-3844

RECEIVED
DEC 05 2014
S.C.V.W.D.
WELLS

WELL TYPE/USE	☐ WATER PRODUCTION	☒ MONITORING	☐ REMEDIATION	☐ DEWATERING	☐ HEAT EXCHANGE	☐ INJECTION	☐ CATHODIC PROTECTION	☐ OTHER
	☐ Agricultural ☐ Domestic ☐ Industrial ☐ Municipal	☒ GW Level ☒ GW Quality ☐ Inclinometer ☐ Vapor ☐ Other	☐ Air Sparge ☐ GW Extraction ☐ Material Emplacement ☐ Vapor Extraction ☐ Other	☐ Permanent ☐ Temporary	☐ Closed Loop ☐ Open Loop	☐ Groundwater Cleanup Reinjection ☐ Stormwater ☐ Water Supply Recharge ☐ Other		

ADDITIONAL QUESTIONS FOR WATER PRODUCING WELLS

Does the well have:				
	1.	Outer conductor casing?	☐ Yes	☒ No
	2.	Annular cement seal outside of casing at surface?	☒ Yes	☐ No
	3.	A S.C.V.W.D. water meter attached?	☐ Yes	☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand-Dug Pit Well ☒ Hollow Stem Auger ☐ Other: _____

IMPORTANT: A minimum 24-hour notice must be given to Santa Clara Valley Water District prior to installing the annular seal. Call (408) 265-2607, ext. 2660. Please allow 10 working days to process permit application.

Santa Clara Valley Water District

5750 Almaden Expressway
San Jose, CA 95118-3686
(408) 265-2600

WELL DESTRUCTION APPLICATION

FC 198 (03-28-13)

Please describe in detail, the proposed destruction method (Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout):

Well will be abandoned by pressure grouting. Well will first be filled with neat 21-sack Portland cement emplaced from the bottom up using a tremie pipe. Any displaced groundwater rising to the top of the casing will be pumped into a drum for off-site disposal. After filling with grout, well will be pressure grouted with neat Portland cement at a pressure of at least 25 psi for a minimum of 5 minutes, or until at least 33% of the well casing volume of grout has been pumped into the well. After grouting, the well vault box and concrete apron will be removed and the well casing will be cut to a depth of approx. 1 foot below grade. The well location will then be patched with concrete.

SIGNATURES

I understand and agree that all work associated with this permit is required to be done in accordance with Santa Clara Valley Water District (District) Well Ordinance 90-1, the District Well Standards, and conditions of this permit (see page 4). I certify that the information given in this permit is correct to the best of my knowledge and that the signature below, whether original, electronic, or photocopied, is authorized and valid, and is affixed with the intent to be enforceable. I also certify that a right of entry/encroachment agreement has been formalized between the well owner and property owner, if parties differ.

Signature	Print Name	Date
Signature of Well Owner/Agent:	Jake Lavin	12/3/14
Signature of Property Owner/Agent:	Josh Bard	12/4/14
Signature of Driller/Agent:	TUAN NGUYEN	12-4-14
Signature of Consultant/Agent (if any):	Dan Clark, ENVIRON	12/3/14

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☑ Pressure Grout Method (as outlined in Standards)
NOTE: Neat cement is the only sealing material approved for pressure grouting.

or

☑ Drill out well to a total depth of 29 feet, with a minimum bore of 10 inches.

☐ Clean out well casing to a total depth of _____ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: _____

☐ Other: _____

Permit Approved by: Charles E. Ramsey Date: 12-17-14

District Permit No.	Date Issued:	Expiration Date:	Driller's Log No.
14D01325	12-17-14	6-17-15	E0246670

Please allow 10 working days to process this application.

ATTACHMENT B

Well Decommissioning Field Data Sheets

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell
FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A
PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara
DATE: 12/23/14 Time: 0900

WELL LOCATION: 1180 Campbell
WELL NUMBER: MW10A
DATE START: ~~12/8/2006~~ DC 12/23/14
DATE END: 12/23/2014
GEOLOGIST: D. Clark
DRILLER: PeneCore, Yako
DRILLING CO: PeneCore
HELPER: Juan
RIG TYPE:
TYPE OF BIT:
(OR ID/OD OF AUGERS)
DRILLING METHOD: ~~Pressure Grouting~~ In place abandonment RE

DTW TOC: 17.9 ft
Well bottom: 28 ft

ORIGINAL WELL CONSTRUCTION

Well Casing Depth: 28 ft. Material: PVC Diameter: 4 in. Boring Depth: 29 ft
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8 to 28 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

WELL CLOSURE

Overdrill Depth: N/A
Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): Santa Clara Valley Water District, Victoria Garcia, (408) 265 2600, 5750 Almaden Expway

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): PeneCore, on site
Cement: 8 ~~94~~ 47 RE Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: 28 Gallons (3.5 gallons per sack of cement)
Sand: _____
Casing Volume: 18.2 gal.
Volume of Grout Mixed: 45 gals.
133% casing vol 24.2 gal
Volume of Grout Placed in Borehole: 42 gals.
REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE: Well accepted more grout than necessary onto filter pack.

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara DATE: 12/23/14 TIME: 1100

WELL LOCATION: 1180 Campbell WELL NUMBER: MW-6A
DATE START: ~~12/8/2006~~ AC 12/23/2014
DATE END: 12/23/2014
GEOLOGIST: D. Clark DRILLER: ~~Jto~~ RE Yako
DRILLING CO: PeneCore HELPER: Juan
RIG TYPE: ~~In place abandonment~~ TYPE OF BIT:
DRILLING METHOD: ~~Pressure Grouting~~ RE (OR ID/OD OF AUGERS)

DTW TOC: 15.83 ft
well bottom: 27.62 ft

ORIGINAL WELL CONSTRUCTION

Well Casing Depth: 28 ft. Material: PVC Diameter: 4 in. Boring Depth: 29
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8 to 28 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

WELL CLOSURE

Overdrill Depth: N/A
Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): SCVWD
Victoria Garcia, 408-265-2600, 5750 Almaden Expway

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): PeneCore, on site
Cement: RE ~~18~~ 47 ~~94~~ Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: ~~25~~ RE 36 Gallons (4.5 gallons per sack of cement)
Sand: _____
Volume of Grout Mixed: ~~45~~ RE 50 gals.
Volume of Grout Placed in Borehole: 50 gals.

Casing Volume: 18.2 gal.
133% Casing Vol
24.2 gal

REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE: Well accepted more grout than necessary

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara DATE: 12/23/14 Time: 1200

WELL LOCATION: 1180 Campbell WELL NUMBER: MW-2A
DATE START: ~~12/6/2006~~ AC 12/23/14
DATE END: 12/23/14
GEOLOGIST: D. Clark DRILLER: Yako
DRILLING CO: Pure Core HELPER: Juan
RIG TYPE: TYPE OF BIT:
DRILLING METHOD: In place abandonment (OR ID/OD OF AUGERS)

DTW TOC: 17.68ft

well bottom: 28.15ft

ORIGINAL WELL CONSTRUCTION

Well Casing Depth: 29 ft. Material: PVC Diameter: 4 in. Boring Depth: 29
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8 to 29 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

WELL CLOSURE

Overdrill Depth: N/A
Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): SCVWD
Victoria Garcia, 408-265-2600, 5750 Almaden Expway

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): Pure Core, on site
Cement: 7 ~~94~~ 47 Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: 25 Gallons (3.6 gallons per sack of cement)
Sand: _____
Volume of Grout Mixed: 50 gals.
Volume of Grout Placed in Borehole: 40 gals.

Casing Volume: 18.2 gal.
133% casing vol
24.2 gals

REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE: Well accepted more grout than nescesary

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara DATE: 12/23/14 Time: 1400

WELL LOCATION: 1180 Campbell WELL NUMBER: MW-5A
DATE START: ~~12/7/2006~~ DC 12/23/14
DATE END: 12/23/2014
GEOLOGIST: D. Clark DRILLER: Yako
DRILLING CO: Pere Core HELPER: Juan
RIG TYPE: TYPE OF BIT:
DRILLING METHOD: In place abandonment (OR ID/OD OF AUGERS)

ORIGINAL WELL CONSTRUCTION

DTW TOC 19.06 ft

Well Casing Depth: 28 ft. Material: PVC Diameter: 4 in. Boring Depth: 29
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8 to 28 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

well bottom 27.6 ft

WELL CLOSURE

Overdrill Depth: N/A
Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): SCVWD
Victoria Garcia, 408-265-2600, 5750 Almaden Expway

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): Pere Core, on site
Cement: 6 ~~94~~ 47 Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: 25 Gallons (4.1 gallons per sack of cement)
Sand: _____
Casing Volume: 18.2 gal
Volume of Grout Mixed: 45 gals.
133%
Volume of Grout Placed in Borehole: 27 gals. 24.2 gal
REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE: Well accepted
more grout than necessary

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara DATE: 12/23/14 Time: 1500

WELL LOCATION: 1180 Campbell WELL NUMBER: MW-4A
DATE START: ~~12/7/2006~~ DC 12/23/14
DATE END: 12/23/14
GEOLOGIST: D. Clark DRILLER: Yako
DRILLING CO: Pene Core HELPER: Juan
RIG TYPE: TYPE OF BIT:
DRILLING METHOD: In place abandonment (OR ID/OD OF AUGERS)

ORIGINAL WELL CONSTRUCTION

DTW TOC: 18.61 ft

Well Casing Depth: 28.5 ft. Material: PVC Diameter: 4 in. Boring Depth: 29
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8.5 to 28.5 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

well bottom: 27.85 ft

WELL CLOSURE

Overdrill Depth: N/A

Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): _____

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): Pene Core, on site

Cement: 4 94 Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: 16 Gallons (4 gallons per sack of cement)
Sand: _____
Volume of Grout Mixed: 45 gals. (~~18~~ gals from previous well, left over)
Volume of Grout Placed in Borehole: 40 gals.

Casing Volume: 18.5 gal.
133% casing vol
24.6 g

REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE:
Well accepted more grout than neccesary

ENVIRON
2200 Powell Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

WELL ABANDONMENT LOG

PROJECT NAME: 1180 Campbell FIELD PERSON: D. Clark / R. Eastman
PROJECT NUMBER: 03-15193A PROJECT MANAGER: A. Gates
PROJECT LOCATION: Santa Clara DATE: 12/23/14 Time: 1600

WELL LOCATION: 1180 Campell WELL NUMBER: MW-3A
DATE START: ~~12/1/2006~~ DC 12/23/14
DATE END: 12/23/2014
GEOLOGIST: D. Clark DRILLER: Yako
DRILLING CO: Pene Core HELPER: Juan
RIG TYPE: TYPE OF BIT:
DRILLING METHOD: In place abandonment (OR ID/OD OF AUGERS)

DTW TOC: 18.18ft

ORIGINAL WELL CONSTRUCTION

Well Casing Depth: 28 ft. Material: PVC Diameter: 4 in. Boring Depth: 29
Filter Pack Depth: 6 to 29 ft. Well Bore Diameter: 12 in.
Screen Depth: 8 to 28 ft. Material: PVC
Conductor Depth: NA Conductor Diameter: NA

well bottom: 27.45ft

WELL CLOSURE

Overdrill Depth: N/A
Reamed Borehole Diam: _____ in. Volume of Reamed Boring: _____ gals.
Amount of Casing Removed: _____ ft. Amount of Screen Removed: _____ ft.
Depth of Conductor Removed: _____ ft. Condition of Surface Seal: _____
Agency Inspector (Name, Agency, Phone Number, Address): SCVWD
Victoria Garcia, 408-265-2600, 5750 Almaden Expway

GROUT MIX

Grout Mixed by (COMPANY, LOCATION): Penecore, on-site
Cement: 4 ~~94~~ 47 Pound Sacks
Bentonite: _____ Pounds (___ pounds per sack)
Water: 16 Gallons (4 gallons per sack of cement)
Sand: _____
Volume of Grout Mixed: 38 gals. (5gal from previous well, leftover)
Volume of Grout Placed in Borehole: 31 gals. 135% Casing Vol 24.2gal
Casing Volume: 18.2 gal.
REASON FOR ANY DISCREPANCY BETWEEN VOLUME OF GROUT AND BOREHOLE: Well accepted more than necessary.

ATTACHMENT C

SCVWD Well Destruction Completion Notices

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia

Date of Inspection: 12/23/14

Permit: 14D01327.

Owner/Consultant No.: MW-2A

Well Registration No.: 07S01W01N015

Well Owner: Santa Clara Development Comp.

Address of Well Site: 1180 Campbell Ave

City or County: San Jose

Drilling Company: Penecore Drilling.

Consultant: ENVIRON Int. Corp.

Well Depth: 28'

Borehole Diameter: 10"

Casing Diameter: 4"

Casing Material: PVC

Well Type: ☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: _____ to _____

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia

Date of Inspection: 12/23/14

Permit: 14D0132G

Owner/Consultant No.: MW-3A

Well Registration No.: 07S01W01N016

Well Owner: Santa Clara Develop. Comp.

Address of Well Site: 1180 Campbell Ave.

City or County: San Jose

Drilling Company: Penecone Drilling

Consultant: ENVIRON Int. Corp.

Well Depth: 28'

Borehole Diameter: 10"

Casing Diameter: 4"

Casing Material: PVC

Well Type: ☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: — to —

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia

Date of Inspection: 12/23/14

Permit: 14D01-329

Owner/Consultant No.: MW-4A

Well Registration No.: 07S01W01M019

Well Owner: Santa Clara Development Comp.

Address of Well Site: 1180 Campbell Ave.

City or County: San Jose

Drilling Company: Penecore Drilling

Consultant: ENVIRON

Well Depth: 28'

Borehole Diameter: 10"

Casing Diameter: 4"

Casing Material: PVC

Well Type: ☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: — to —

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia

Date of Inspection: 12/23/14

Permit: 14D0330

Owner/Consultant No.: MW-5A

Well Registration No.: 07S01W01N017

Well Owner: Santa Clara Development Comp.

Address of Well Site: 1180 Campbell Ave.

City or County: San Jose

Drilling Company: Penecore Drilling

Consultant: ENVIRON Int. Corp.

Well Depth: 28'

Borehole Diameter: 10"

Casing Diameter: 4"

Casing Material: PVC

Well Type: ☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: — to —

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia

Date of Inspection: 12/23/14

Permit: KA01328

Owner/Consultant No.: MW-6A

Well Registration No.: 07S01W01M020

Well Owner: Santa Clara Development Comp.

Address of Well Site: 1180 Campbell Avenue

City or County: San Jose

Drilling Company: Penecore Drilling

Consultant: ENVIRON Int. Corp.

Well Depth: 28'

Borehole Diameter: 10"

Casing Diameter: 4"

Casing Material: PVC

Well Type: ☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: — to —

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

Santa Clara Valley Water District

WELL DESTRUCTION COMPLETION NOTICE

FC 218 (05-16-14)

Inspector: V. Garcia	Date of Inspection: 12/23/14	Permit: 14D01325
Owner/Consultant No.: MW-10A	Well Registration No.: 07S01W01M021	
Well Owner: Santa Clara Development Comp.	Address of Well Site: 1180 Campbell Ave.	City or County: San Jose
Drilling Company: Penecore Drilling	Consultant: ENVIRON Int. Corp.	

Well Depth:	Borehole Diameter:	Casing Diameter:	Casing Material:	Well Type:
28'	10"	4"	PVC	☒ HSA ☐ Rotary ☐ Other (See Comments) ☐ Direct Push ☐ Cable Tool

Casing Perforated: — to —

Sealing Material: ☒ Neat Cement ☐ 10 Sack Sand Slurry ☐ Bentonite ☐ Other (See Comments)

Destruction Method: ☒ Pressure Grout ☐ Drill Out ☐ Excavate ☐ Bail, Perf & Backfill ☐ Bail & Backfill ☐ Other (See Comments)

Well destroyed according to provisions of Santa Clara Valley Water District Permit? ☒ Yes ☐ No (See Comments)

GPS Coordinates: Lat. Long.

Comments:

Distribution: **ORIGINAL**–Permit File; **YELLOW**– Permittee; **PINK**–Well File

ATTACHMENT D

Completed DWR 188 Well Destruction Forms

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0246666

Page 1 of 3

Owner's Well Number MW-2A

Date Work Began 12/23/14 Date Work Ended 12/23/14

Local Permit Agency SCVWD

Permit Number 14D01327 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		Filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28 Feet

Well Owner

Name Santa Clara Development Co.

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum WGS84 Dec. Lat. 37.347612 Dec. Long. -121.928243

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

O New Well

O Modification/Repair

O Deepen

O Other

☑ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

O Water Supply

☐ Domestic ☐ Public

☐ Irrigation ☐ Industrial

O Cathodic Protection

O Dewatering

O Heat Exchange

O Injection

O Monitoring

O Remediation

O Sparging

O Test Well

O Vapor Extraction

O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	8	10	Blank	PVC Sch. 40		4		
8	28	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	seal
6	29	Filter Pack	

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☑ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Penecore Drilling

Person, Firm or Corporation

220 N. East St. Woodland CA 95776

Address City State Zip

Signed 1/6/15 9060899

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0245574

Page 1 of 3

Owner's Well Number MW-3A

Date Work Began 12/23/14 Date Work Ended 12/23/14

Local Permit Agency SCVWD

Permit Number 14D01326 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28 Feet

Well Owner

Name Santa Clara Development Co.

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum WGS84 Dec. Lat. 37.348433 Dec. Long. -121.927595

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

- O New Well
- O Modification/Repair
  - O Deepen
  - O Other
- ☒ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- O Water Supply
  - ☐ Domestic ☐ Public
  - ☐ Irrigation ☐ Industrial
- O Cathodic Protection
- O Dewatering
- O Heat Exchange
- O Injection
- O Monitoring
- O Remediation
- O Sparging
- O Test Well
- O Vapor Extraction
- O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	8	10	Blank	PVC Sch. 40		4		
8	28	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	seal
6	29	Filter Pack	

Attachments

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☒ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Penecore Drilling

Person, Firm or Corporation

220 N. Fourth St. Woodland CA 95776

Address City State Zip

Signed 1/6/15 906809

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0246667

Page 1 of 3

Owner's Well Number MW-4A

Date Work Began 12/23/14 Date Work Ended 12-23-14

Local Permit Agency SCVWD

Permit Number 14D01329 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		Filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28.5 Feet

Well Owner

Name Santa Clara Development Co.

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude ___ Deg. ___ Min. ___ Sec. N Longitude ___ Deg. ___ Min. ___ Sec. W

Datum WGS 84 Dec. Lat. 37.348682 Dec. Long. -121.928736

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

O New Well

O Modification/Repair

O Deepen

O Other

☑ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

O Water Supply

☐ Domestic ☐ Public

☐ Irrigation ☐ Industrial

O Cathodic Protection

O Dewatering

O Heat Exchange

O Injection

O Monitoring

O Remediation

O Sparging

O Test Well

O Vapor Extraction

O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size If Any (Inches)
0	8.5	10	Blank	PVC Sch. 40		4		
8.5	28.5	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	seal
6	29	Filter Pack	

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☑ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Penegore Drilling

Person, Firm or Corporation

220 N. East St. Woodland CA 95776

Address City State Zip

Signed

C-57 Licensed Water Well Contractor

Date Signed

C-57 License Number 906899

DWR 188 REV. 1/2006

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State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0246668

Page 1 of 3

Owner's Well Number MW-5A

Date Work Began 12/23/14 Date Work Ended 12/23/14

Local Permit Agency SCVWD

Permit Number 14D01330 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		Filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28 Feet

Well Owner

Name Santa Clara Development Co.

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

Datum WGS 84 Dec. Lat. 37.348870 Dec. Long. -121.928596

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

O New Well

O Modification/Repair

O Deepen

O Other

☑ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

O Water Supply

☐ Domestic ☐ Public

☐ Irrigation ☐ Industrial

O Cathodic Protection

O Dewatering

O Heat Exchange

O Injection

O Monitoring

O Remediation

O Sparging

O Test Well

O Vapor Extraction

O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	8	10	Blank	PVC Sch. 40		4		
8	28	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	Seal
6	29	Filter Pack	

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☑ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name PeneCore Drilling

Person, Firm or Corporation

220 N. East St Woodland CA 95776

Address City State Zip

Signed 1/6/15 906899

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0246669

Page 1 of 3

Owner's Well Number MW-6A

Date Work Began 12/23/14 Date Work Ended 12/23/14

Local Permit Agency SCVWD

Permit Number 14D01328 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N Latitude W Longitude

APN/TRS/Other

Geologic Log

Orientation ○ Vertical ○ Horizontal ○ Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		Filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28 Feet

Well Owner

Name Santa Clara Development Co.

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

Datum WGS 84 Dec. Lat. 37.349077 Dec. Long. -121.928513

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

○ New Well
○ Modification/Repair
○ Deepen
○ Other
☑ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

○ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
○ Cathodic Protection
○ Dewatering
○ Heat Exchange
○ Injection
○ Monitoring
○ Remediation
○ Sparging
○ Test Well
○ Vapor Extraction
○ Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	8	10	Blank	PVC Sch. 40		4		
8	28	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	Seal
6	29	Filter Pack	

Attachments

☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☑ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name PeneCore Drilling
Person, Firm or Corporation

220 N. East St. Woodland CA 95776
Address City State Zip

Signed 1/6/15 906899
C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

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File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. e0246670

Page 1 of 3

Owner's Well Number MW-10A

Date Work Began 12/23/14 Date Work Ended 12/23/14

Local Permit Agency SCVWD

Permit Number 14D01325 Permit Date 12-17-14

DWR Use Only – Do Not Fill In

State Well Number/Site Number

N W

Latitude Longitude

APN/TRS/Other

Geologic Log

Orientation O Vertical O Horizontal O Angle Specify

Drilling Method Drilling Fluid

Depth from Surface Feet	to Feet	Description Describe material, grain size, color, etc
		filled well via tremie pipe with neat Portland cement. A minimum of 133% of the total well casing volume of grout was used to seal the casing and filter pack in-place.
		The top of casing was cut to a depth of 8-12" below grade. The vault box and concrete apron were removed and the well location was patched with concrete.

Total Depth of Boring 30 Feet

Total Depth of Completed Well 28 Feet

Well Owner

Name Santa Clara Development Co

Mailing Address 2185 The Alameda

City San Jose State CA Zip 95126

Well Location

Address 1180 Campbell Ave.

City San Jose, CA County Santa Clara

Latitude Deg. Min. Sec. N Longitude Deg. Min. Sec. W

Datum WGS 84 Dec. Lat. 37.348710 Dec. Long. -121.927850

APN Book 230 Page 14 Parcel 007

Township Range Section

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

See attached maps.

West East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. **Please be accurate and complete.**

Activity

O New Well

O Modification/Repair

O Deepen

O Other

☑ Destroy

Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

O Water Supply

☐ Domestic ☐ Public

☐ Irrigation ☐ Industrial

O Cathodic Protection

O Dewatering

O Heat Exchange

O Injection

O Monitoring

O Remediation

O Sparging

O Test Well

O Vapor Extraction

O Other

Water Level and Yield of Completed Well

Depth to first water (Feet below surface)

Depth to Static Water Level (Feet) Date Measured

Estimated Yield * (GPM) Test Type

Test Length (Hours) Total Drawdown (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet	to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	8	10	Blank	PVC Sch. 40		4		
8	28	10	Screen	PVC Sch. 40		4	Milled Slots	0.020

Annular Material

Depth from Surface Feet	to Feet	Fill	Description
0	4	Cement	
4	6	Bentonite	seal
6	29	Filter Pack	

Attachments

☐ Geologic Log

☐ Well Construction Diagram

☐ Geophysical Log(s)

☐ Soil/Water Chemical Analyses

☑ Other Figures 1 and 2

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Venecore Drilling

Person, Firm or Corporation

220 N. First St. Woodland CA 95776

Address City State Zip

Signed 1/6/15 906899

C-57 Licensed Water Well Contractor Date Signed C-57 License Number

DWR 188 REV. 1/2006

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ENVIRON

May 14, 2009

Ms. Karen Toth
Department of Toxic Substances Control
700 Heinz Street
Berkeley, CA 94710

Re: Semi-Annual Ground Water Monitoring Report, April 2009
1180, 1182 and 1184 Campbell Avenue, San Jose, California
ENVIRON Project No. 03-15193A

Dear Ms. Toth:

On behalf of Robson Homes LLC (Robson Homes), ENVIRON International Corporation ("ENVIRON") has prepared this report summarizing the results of the April 2009 ground water monitoring conducted for the property located at 1180, 1182 and 1184 Campbell Avenue in San Jose, Santa Clara County, California ("Site," Figure 1). This sampling has been conducted on a semi-annual basis in accordance with the Operation and Maintenance (O&M) Plan for monitoring ground water at the Site prepared by ENVIRON and dated November 9, 2006, and pursuant to comments by Santa Clara Valley Water District for water level measurements of all wells and sampling of wells MW-3A and MW-4A. Details of site background and subsurface conditions were presented in ENVIRON's *Quarterly Ground Water Monitoring Report Fourth Quarter 2007*.

This report presents the ground water monitoring results for April 2009. Ground water elevations and analytical data are presented in Tables 2 and 3. The locations of ground water monitoring wells discussed in this report are shown on Figure 2. Ground water sampling forms are presented in Appendix A, and laboratory analytical results are presented in Appendix B.

Ground Water Elevations

Ground water levels in the six monitoring wells were measured on April 16, 2009. A summary of measured ground water depths and elevations is presented in Table 2. Measurements were made with an electronic water level probe with gradations to the nearest 0.01 feet. Readings were taken from a surveyed reference point until agreement was reached from two consecutive readings to the nearest 0.01 foot.

The water levels observed on April 16, 2009 were between 13.03 and 15.07 feet below ground surface. Water levels in the six wells increased an average of 1.46 ft between December 2008 and April 2009. Figure 3 shows water level trends from December 2006 through April 2009. A ground water table contour map is shown on Figure 2. Consistent with previous measurements, the water levels indicate an overall ground water flow direction toward the north.

Ground Water Analytical Results

Ground water samples were collected from monitoring wells MW-3A and MW-4A on April 16, 2009 by Blaine Tech Services of San Jose, California under the oversight of an ENVIRON geologist. At each monitoring well, a minimum of three well volumes of water were purged using a positive air displacement pump prior to sampling to ensure that the samples collected were representative of aquifer conditions. Samples were collected using a disposable bailer. Following collection, the sample bottles were sealed, labeled, and placed in an ice-filled cooler for transport to the analytical laboratory under chain-of-custody protocol. The ground water samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260B by TestAmerica of Pleasanton, California, a California-certified laboratory. The complete analytical laboratory report provided by TestAmerica is presented in Appendix B. Temperature, pH, specific conductance, and turbidity were measured using field equipment during purging and sampling to evaluate when conditions reached steady-state. These records are attached in Appendix A.

The analytical results are summarized in Table 3 and shown on Figure 4. At well MW-3A, tetrachloroethene (PCE) was detected at a concentration of 44 µg/l, which is above the MCL of 5.0 µg/l. Trichloroethene (TCE) was detected at a concentration of 2.8 µg/l, which is below the MCL of 5.0 µg/l. Cis-1,2-dichloroethene (cis-1,2-DCE) was detected at a concentration of 5 µg/l, which is below the MCL of 6.0 µg/l.. At well MW-4A, 1,2,4-trichlorobenzene (1,2,4-TCB) was detected above the MCL (5.0 µg/l) at a concentration of 190 µg/l. 1,2,3- TCB, a compound with no available MCL, was detected at a concentration of 61 µg/l.

Summary

- The ground water elevation data from April 2009 water level measurements indicate an increase (an average of +1.46 ft) in ground water elevations, likely due to seasonal variation. Consistent with previous measurements, the overall ground water flow direction is toward the north.

- Analytical results from the April 2009 sampling event demonstrate decreases from the previous quarterly monitoring event in the VOC concentrations in samples collected from wells MW-3A and MW-4A. Elevated VOC concentrations in samples collected during the previous monitoring event were likely related to the significant drop in groundwater elevation at the Site, measured in December 2008.

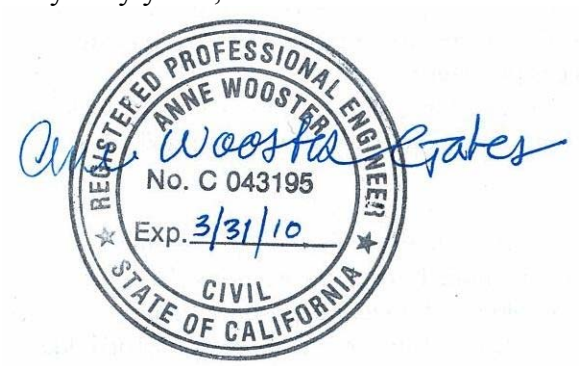
- The constituent of primary concern at MW-3A, PCE, was detected at a concentration of 44 µg/l. PCE concentrations detected in well MW-3/MW-3A from December 2003 through April 2009 are shown in Figure 5. The source of PCE is related to an offsite, upgradient former dry cleaning operation at 1175 Campbell Avenue.

- The constituent of primary concern at MW-4A, 1,2,4-TCB, was detected at a concentration of 190 µg/l. When compared to a detected concentration of 250 µg/l in June 2008 and 550 in December 2008, the result indicates significantly decreased concentrations of 1,2,4-TCB at this location since December 2008. In addition, the concentration of 1,2,4-TCB has decreased to below June 2008 levels. 1,2,4-TCB concentrations detected in well MW-4/MW-4A from December 2003 through April 2009 are shown in Figure 6.

- The next ground water sampling episode is scheduled for October 2009.

Please contact us at (510) 655-7400 if you have any questions about this report.

Very truly yours,



Anne Wooster Gates, P.E.
Senior Manager

cc: Mark Robson, Robson Homes
John Garcia, Robson Homes

Attachments:

Table 1 – Summary of Monitoring Well Completions

Table 2 – Summary of Ground Water Elevations

Table 3 – Summary of Chemical Test Results – Volatile Organic Compounds

Figure 1 – Site Location

Figure 2 – Ground Water Elevations and Potentiometric Map

Figure 3 – Water levels at Select Wells

Figure 4 – Detected Volatile Organic Compounds

Figure 5 – PCE Concentration Trend in MW-3/MW-3A

Figure 6 – 1,2,4-TCB Concentration Trend in MW-4/MW-4A

Appendix A – Ground Water Sampling Forms

Appendix B – Analytical Laboratory Report

TABLES

TABLE 1: SUMMARY OF MONITORING WELL COMPLETIONS
Ground Water Monitoring Report
1180, 1182, and 1184 Campbell Avenue, San Jose, California

Well [1]	Installation Date	Elevation of Survey Point (feet amsl) [2]	Total Depth (feet bgs)	Casing Material	Casing Diameter	Screen Slot Size	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)
MW-2A	12/06/2006	64.29	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-3A	12/07/2006	64.83	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-4A	12/07/2006	64.84	28.5	PVC	4"	0.020"	8.5 - 28.5	6.0 - 29.0
MW-5A	12/07/2006	65.17	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-6A	12/08/2006	64.95	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0
MW-10A	12/08/2006	64.00	28.0	PVC	4"	0.020"	8.0 - 28.0	6.0 - 29.0

Notes:

[1] In general, monitoring wells were constructed to replicate former monitoring well network including locations, depths, screened intervals, and slot size. Locations were slightly adjusted to accommodate Site redevelopment plans.

[2] Survey of monitoring wells was performed by HMH Engineers of Oakland, California on January 17, 2007.

feet amsl: feet above mean sea level

feet bgs: feet below ground surface

TABLE 2: SUMMARY OF GROUND WATER ELEVATIONS
Ground Water Monitoring Report
1180, 1182, and 1184 Campbell Avenue, San Jose, California

	MW-2A		**MW-3A**		**MW-4A**		**MW-5A**		**MW-6A**		**MW-10A**	
TOC Elev.	*64.29*		*64.83*		*64.84*		*65.17*		*64.95*		*64.00*	
Date	Depth (feet bTOC)	Elevation (feet amsl)	Depth (feet bTOC)	Elevation (feet amsl)	Depth (feet bTOC)	Elevation (feet amsl)	Depth (feet bTOC)	Elevation (feet amsl)	Depth (feet bTOC)	Elevation (feet amsl)	Depth (feet bTOC)	Elevation (feet amsl)
12/14/2006	7.00	**57.29**	9.10	**55.73**	9.10	**55.74**	9.56	**55.61**	9.50	**55.45**	8.52	**55.48**
03/23/2007	6.57	**57.72**	8.62	**56.21**	8.65	**56.19**	9.15	**56.02**	9.10	**55.85**	8.14	**55.86**
06/25/2007	8.02	**56.27**	9.98	**54.85**	9.99	**54.85**	10.58	**54.59**	10.46	**54.49**	9.50	**54.50**
09/20/2007	9.89	**54.40**	11.74	**53.09**	11.78	**53.06**	12.22	**52.95**	12.17	**52.78**	11.21	**52.79**
12/03/2007	10.86	**53.43**	12.65	**52.18**	12.71	**52.13**	13.18	**51.99**	13.13	**51.82**	12.11	**51.89**
06/12/2008	10.96	**53.33**	12.75	**52.08**	12.80	**52.04**	13.27	**51.90**	13.19	**51.76**	12.21	**51.79**
12/16/2008	14.50	**49.79**	15.91	**48.92**	16.08	**48.76**	16.49	**48.68**	16.43	**48.52**	15.45	**48.55**
04/16/2009	13.03	**51.26**	14.56	**50.27**	14.61	**50.23**	15.07	**50.10**	14.89	**50.06**	13.96	**50.04**
Change		1.47		1.35		1.47		1.42		1.54		1.49

Notes:
feet bTOC: feet below top of casing
feet amsl: feet above mean sea level
Shaded cells represent most recent groundwater elevation results

TABLE 3: SUMMARY OF CHEMICAL TEST RESULTS - VOLATILE ORGANIC COMPOUNDS
Ground Water Monitoring Report
1180, 1182, and 1184 Campbell Avenue, San Jose, California

Sample Name	Sample Type	Sample Date	Groundwater Concentration (ug/L)																	
			Vinyl Chloride	Acetone	Trans-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1-Dichloro-ethane	Cis-1,2-Dichloro-ethene	Trichloro-ethene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Tetra-chloro-ethene (PCE)	Chloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,2-Dichloro-benzene	1,2,4-Trichloro-benzene	1,2,3-Trichloro-benzene	Isobutanol	Dichloro-difluoro-methane
MW-1	Former Well [1]	12/23/2003	**5.7**	**33**	< 1	< 0.5	< 0.5	**93**	**7.9**	< 1	< 1	< 0.5	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 0.5
MW-1	Former Well [1]	06/14/2004	**1.4**	<50	**1.3**	<0.5	<0.5	**46**	**4.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-1	Former Well [1]	03/31/2005	**2.5**	<50	**1.2**	<0.5	<0.5	**56**	**4.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-1	Temporary Well [2]	02/08/2006	**0.57**	<50	<0.5	<0.5	<0.5	**7**	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-2	Former Well [1]	06/14/2004	**42**	<200	**12**	< 2	<2	**140**	<2	< 2	<2	<2	<2	<2	<2	<2	<4	<4	na	< 0.5
MW-2	Former Well [1]	03/31/2005	**38**	<200	**8.6**	< 2	<2	**98**	<2	< 2	<2	<2	<2	<2	<2	<2	<4	<4	na	< 0.5
MW-2A	Temporary Well [2]	02/08/2006	**35**	<50	**5.2**	<0.5	<0.5	**70**	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-2A	Temporary Well [2]	05/12/2006	**2.2**	<50	<0.5	<0.5	<0.5	**3.9**	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-2A	Current Well [3]	12/14/2006	**3.5**	<50	<0.50	<0.5	<0.5	**8.0**	<0.50	< 0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	na	<0.50
MW-2A	Current Well [3]	3/23/2007	< 0.5	< 50	< 0.5	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	na	< 0.50
MW-2A	Current Well [3]	06/25/2007	**0.92**	<50	<0.5	<0.5	<0.5	**6.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-2A	Current Well [3]	09/20/2007	**1.6**	<50	<0.5	<0.5	<0.5	**6.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-2A	Current Well [3]	12/03/2007	**1.5**	<50	<0.5	<0.5	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-3	Former Well [1]	12/23/2003	< 0.5	< 10	**2**	< 0.5	< 0.5	**80**	**40**	< 1	**11**	**450**	< 1	< 1	< 1	< 1	< 1	< 1	< 5	< 0.5
MW-3	Former Well [1]	06/14/2004	<5	<500	<5	< 5	<5	**49**	**31**	< 5	<5	**360**	<5	<5	<5	<5	<10	<10	na	< 0.5
MW-3	Former Well [1]	03/31/2005	<5	<500	<5	<0.5	<5	**62**	**37**	< 5	<5	**460**	<5	<5	<5	<5	<10	<10	na	< 0.5
MW-3A	Temporary Well [2]	02/17/2006	<0.5	<50	<0.5	<0.5	<0.5	**1.2**	<0.5	< 0.5	<0.5	**2.6**	<0.5	<0.5	<0.5	<0.5	<1	<1	na	<0.5
MW-3A	Temporary Well [2]	05/11/2006	<1.0	<100	<1.0	< 1	<1.0	**31**	**15**	< 1	<1.0	**130**	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	na	<1.0
MW-3A	Current Well [3]	12/14/2006	<0.5	<50	<0.5	<0.5	<0.5	**2.6**	**1.3**	< 0.5	<0.5	**22**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.50
MW-3A	Current Well [3]	3/23/2007	< 0.5	< 50	< 0.5	< 0.5	< 0.5	**0.51**	< 0.5	< 0.5	< 0.5	**4.6**	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	na	< 0.50
MW-3A	Current Well [3]	06/25/2007	<0.5	<50	<0.5	<0.5	<0.5	**0.72**	<0.5	<0.5	<0.5	**4.9**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-3A	Current Well [3]	09/20/2007	<0.5	<50	<0.5	<0.5	<0.5	**10**	**4.4**	<0.5	<0.5	**83**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-3A	Current Well [3]	12/03/2007	<0.5	<50	<0.5	<0.5	<0.5	**3.8**	**1.6**	<0.5	<0.5	**29**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-3A	Current Well [3]	06/12/2008	<0.5	<50	<0.5	<0.5	<0.5	**4.2**	**2.1**	<0.5	<0.5	**28**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-3A	Current Well [3]	12/16/2008	<2.5	<250	<2.5	<2.5	<2.5	**45**	**26.0**	<2.5	<2.5	**340**	<2.5	<2.5	<2.5	<2.5	<5.0	<5.0	na	<2.5
MW-3A	Current Well [3]	04/16/2009	<0.5	<50	<0.5	<0.5	<0.5	**5**	**2.8**	<0.5	<0.5	**44**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-4	Former Well [1]	12/23/2003	< 0.5	< 10	< 1	< 0.5	< 0.5	**15**	**5.9**	< 1	< 1	**1.7**	**5**	**5**	**13**	**9**	**3790**	**944**	< 5	< 0.5
MW-4	Former Well [1]	06/14/2004	<2	<200	<2	<0.5	<2	<2	<2	< 2	<2	<2	<2	<2	<2	<2	**210**	**65**	na	< 0.5
MW-4	Former Well [1]	03/31/2005	<0.5	<50	<2	<0.5	<2	<2	<2	< 0.5	<2	**0.64**	<0.5	<2	<2	<2	**43**	**13**	na	< 0.5
MW-4A	Temporary Well [2]	02/07/2006	<0.5	<50	<0.5	<0.5	**0.66**	**0.88**	<0.5	< 0.5	<0.5	<0.5	**6.8**	**0.58**	**1.3**	**2**	**27**	**8**	na	<0.5
MW-4A	Temporary Well [2]	05/11/2006	<0.5	<50	<0.5	<0.5	**0.84**	**1.4**	**0.65**	< 0.5	<0.5	<0.5	**5**	**2.1**	**4.8**	**5.3**	**160**	**38**	na	<0.5
MW-4A	Current Well [3]	12/14/2006	<5.0	<500	<5.0	< 5	<5.0	<5.0	<5.0	< 5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**270**	**77**	na	<5.0
MW-4A	Current Well [3]	3/23/2007	< 1.0	< 100	< 1.0	**1.3**	**2.1**	**3.5**	**4.3**	**1.0**	< 1.0	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	**140**	**58**	na	< 1.0
MW-4A	Current Well [3]	06/25/2007	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**290**	**94**	na	<5.0
MW-4A	Current Well [3]	09/20/2007	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**200**	**61**	na	<5.0
MW-4A	Current Well [3]	12/03/2007	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**270**	**91**	na	<5.0
MW-4A	Current Well [3]	06/12/2008	<5.0	<500	<5.0	<5.0	<5.0	<5.0	**5.3**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**250**	**83**	na	<5.0
MW-4A	Current Well [3]	12/16/2008	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**550**	**210**	na	<5.0
MW-4A	Current Well [3]	04/16/2009	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**190**	**61**	na	<5.0
MW-5	Former Well [1]	06/14/2004	<5	<500	<5	< 5	<5	**8.4**	**5.5**	< 0.5	<5	< 5	< 5	< 5	< 5	< 5	**250**	**63**	na	< 0.5
MW-5	Former Well [1]	03/31/2005	<5	<500	<5	< 5	<5	**7.0**	**5.1**	< 5	<5	**7.0**	< 5	< 5	< 5	< 5	**360**	**96**	na	< 0.5
MW-5A	Temporary Well [2]	02/07/2006	<5.0	<500	<5.0	< 5	<5.0	**5.8**	<5.0	< 5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**840**	**250**	na	<5.0
MW-5A	Temporary Well [2]	05/11/2006	<0.5	<50	**0.57**	<0.5	**2.1**	**6.3**	**2.5**	< 0.5	<0.5	<0.5	**7**	**0.66**	**1.5**	**3.2**	**28**	**7.9**	na	<0.5
MW-5A	Current Well [3]	12/14/2006	<0.50	<50	<0.50	**1.5**	**1.5**	**3.4**	**3.4**	**1.2**	<0.50	**2.0**	<0.5	<0.5	<0.5	<0.5	**17**	**5.1**	na	<0.50
MW-5A	Current Well [3]	3/23/2007	< 0.50	< 50	< 0.50	**1.6**	**2.5**	**2.9**	**2.9**	**1.2**	< 0.50	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**8.8**	**3.3**	na	< 0.50
MW-5A	Current Well [3]	06/25/2007	<0.5	<50	<0.5	**1.9**	**2.9**	**3.3**	**3.0**	**1.5**	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	**10**	**4.1**	na	<0.5
MW-5A	Current Well [3]	09/20/2007	<0.5	<50	<0.5	**1.4**	**2.5**	**2.4**	**2.6**	**0.98**	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	**7.5**	**2.9**	na	<0.5
MW-5A	Current Well [3]	12/03/2007	<0.5	<50	<0.5	**1.3**	**2.4**	**2.1**	**2.8**	**0.91**	<0.5	**0.94**	<0.5	<0.5	<0.5	<0.5	**6.3**	**2.4**	na	<0.5

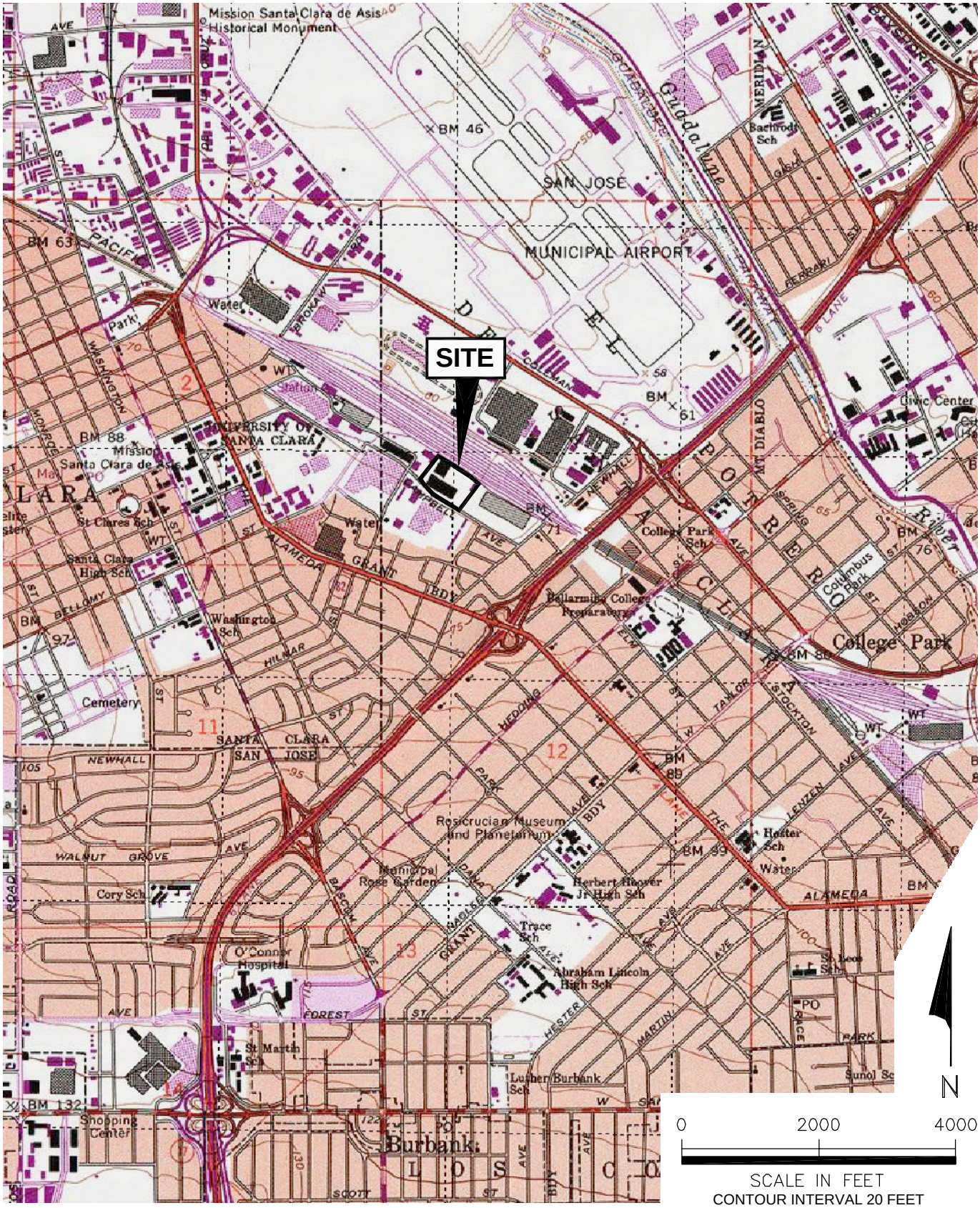
TABLE 3: SUMMARY OF CHEMICAL TEST RESULTS - VOLATILE ORGANIC COMPOUNDS
Ground Water Monitoring Report
1180, 1182, and 1184 Campbell Avenue, San Jose, California

Sample Name	Sample Type	Sample Date	Groundwater Concentration (ug/L)																	
			Vinyl Chloride	Acetone	Trans-1,2-Dichloro-ethene	1,1-Dichloro-ethene	1,1-Dichloro-ethane	Cis-1,2-Dichloro-ethene	Trichloro-ethene	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Tetra-chloro-ethene (PCE)	Chloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	1,2-Dichloro-benzene	1,2,4-Trichloro-benzene	1,2,3-Trichloro-benzene	Isobutanol	Dichloro-difluoro-methane
MW-6	Former Well [1]	12/23/2003	**0.8**	< 10	< 1	<0.5	**1.6**	**10**	**1.9**	< 1	**11**	< 0.5	< 1	< 1	< 1	< 1	**65**	**21**	< 5	< 0.5
MW-6	Former Well [1]	06/14/2004	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-6	Former Well [1]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	<1	na	< 0.5
MW-6A	Temporary Well [2]	02/07/2006	< 0.5	< 50	< 0.5	<0.5	**1.2**	**7.3**	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**21**	**6.9**	na	< 0.5
MW-6A	Temporary Well [2]	05/11/2006	<0.5	<50	<0.5	<0.5	<0.5	<0.5	**0.82**	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-6A	Current Well [3]	12/14/2006	<0.5	<50	<0.5	**1.7**	<0.5	**1.8**	**1.2**	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.3**	**2.2**	na	<0.50
MW-6A	Current Well [3]	3/23/2007	< 0.5	< 50	< 0.5	**1.4**	**3.1**	**1.0**	**0.63**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	na	< 0.50
MW-6A	Current Well [3]	06/25/2007	<0.5	<50	<0.5	**1.3**	**2.3**	**1.2**	**0.84**	**0.82**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.9**	<1.0	na	<0.5
MW-6A	Current Well [3]	09/20/2007	<0.5	<50	<0.5	<0.5	**0.57**	<0.5	**0.53**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-6A	Current Well [3]	12/03/2007	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-7	Former Well [1]	06/14/2004	<0.5	<50	<0.5	<0.5	<0.5	<0.5	**1.6**	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-7	Former Well [1]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	**1.3**	< 0.5	<0.5	**0.78**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	<1	na	< 0.5
MW-8	Former Well [1]	12/23/2003	< 0.5	< 10	< 1	<0.5	**1.7**	**15**	**8.9**	< 1	**10**	**2**	< 1	< 1	< 1	< 1	**2**	< 1	**7**	< 0.5
MW-8	Former Well [1]	06/14/2004	<0.5	<50	<0.5	<0.5	<0.5	**2.7**	**2.6**	< 0.5	<0.5	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-8	Former Well [1]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	**1.6**	**1.2**	< 0.5	< 0.5	**0.6**	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-9	Former Well [1]	06/14/2004	<0.5	<50	<0.5	<0.5	<0.5	<0.5	**2.9**	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-9	Former Well [1]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	**2.2**	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
MW-10A	Temporary Well [2]	02/07/2006	<0.5	<50	**0.55**	**0.82**	**2.2**	**7.1**	**3.2**	< 0.5	<0.5	**0.57**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-10A	Temporary Well [2]	05/12/2006	<0.5	<50	<0.5	<0.5	<0.5	**15**	**1**	< 0.5	<0.5	**12**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.5
MW-10A	Current Well [3]	12/14/2006	<0.5	<50	**0.98**	<0.5	<0.5	**41**	**16**	< 0.5	<0.5	**130**	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	na	<0.50
MW-10A	Current Well [3]	3/23/2007	< 0.5	< 50	< 0.5	<0.5	< 0.5	**0.92**	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	<1.0	na	**0.76**
MW-10A	Current Well [3]	06/25/2007	<2.0	<200	<2.0	<2.0	<2.0	**100**	**32**	<2.0	<2.0	**160**	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0	na	<2.0
MW-10A	Current Well [3]	09/20/2007	< 0.5	< 50	< 0.5	<0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	<1.0	na	**1.0**
MW-10A	Current Well [3]	12/03/2007	< 0.5	< 50	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	<1.0	<1.0	na	**1.0**
TW-1-17.42	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
TW-2-19.70	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
TW-3-19.70	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
TW-4-19.67	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
TW-5-19.72	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	< 0.5
TW-6-19.70	Temporary Well [2]	03/31/2005	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<1	<1	na	**0.88**
MCLs [4]			0.5	NV	10	6	5	6	5	200	5	5	NV	NV	5	600	5	NV	NV	NV

Notes:
[1] "Former Wells" (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9) were constructed using hollow-stem auger drilling techniques. Samples were collected using standard methods with a minimum of three casing volumes purg These wells were abandoned in November 2005 prior to site redevelopment.
[2] "Temporary Well" samples were collected from temporary wells installed using direct-push drilling techniques. Samples were collected using standard methods with a minimum of three casing volumes purged.
[3] "Current Wells" were constructed and developed by ENVIRON in December 2006 using hollow-stem auger drilling techniques. Samples were collected using standard methods with a minimum of three casing volumes purged.
[4] Maximum Contaminant Levels (MCLs) as specificed in Table 64444-A (organic Chemicals) of Section 64444, Title 22 of the California Code of Regulations, as of March 9, 2008.

na: not analyzed
NV: no screening value
Detections shown in bold.
Shaded cells represent most recent groundwater sampling results

FIGURES



SOURCE: USGS Map 7.5 Min Series (Topographic) SAN JOSE WEST QUAD, California, 1979-1980, National Geographic Topo 2001.

0312267A-VICMAP.DWG

ENVIRON

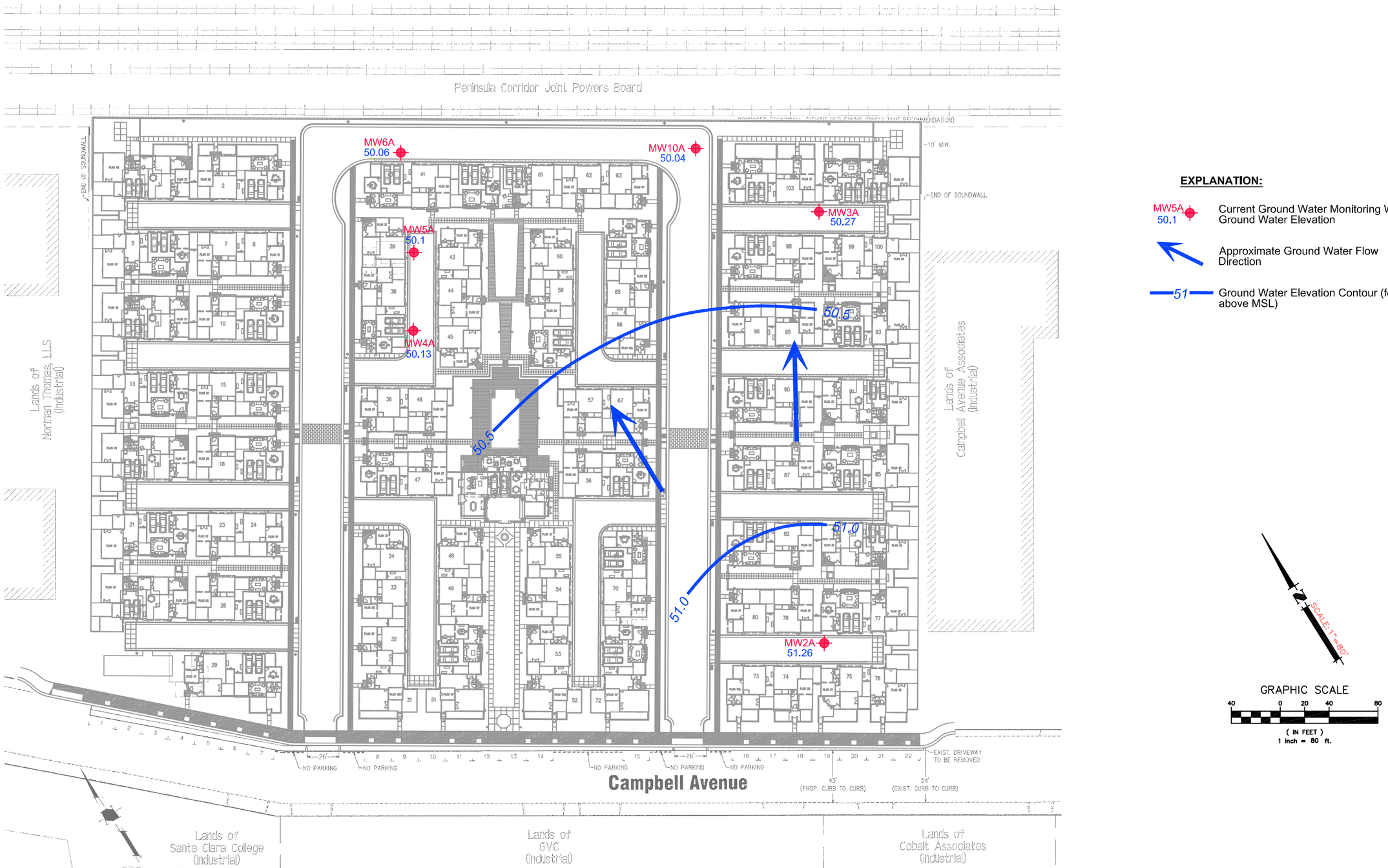
Site Location Map
Santa Clara Development Co.
1180, 1182 and 1184 Campbell Ave
San Jose, California

DRAFT

Figure
1

Drafter: RS | Date: 12/29/03 | Contract Number: 03-12267A | Approved: | Revised:

Q:\DRAWINGS\0315193a\0315193A-PotentiometricMap-5-2009.dwg - Fri, 08 May 2009 - 1:32pm



ENVIRON

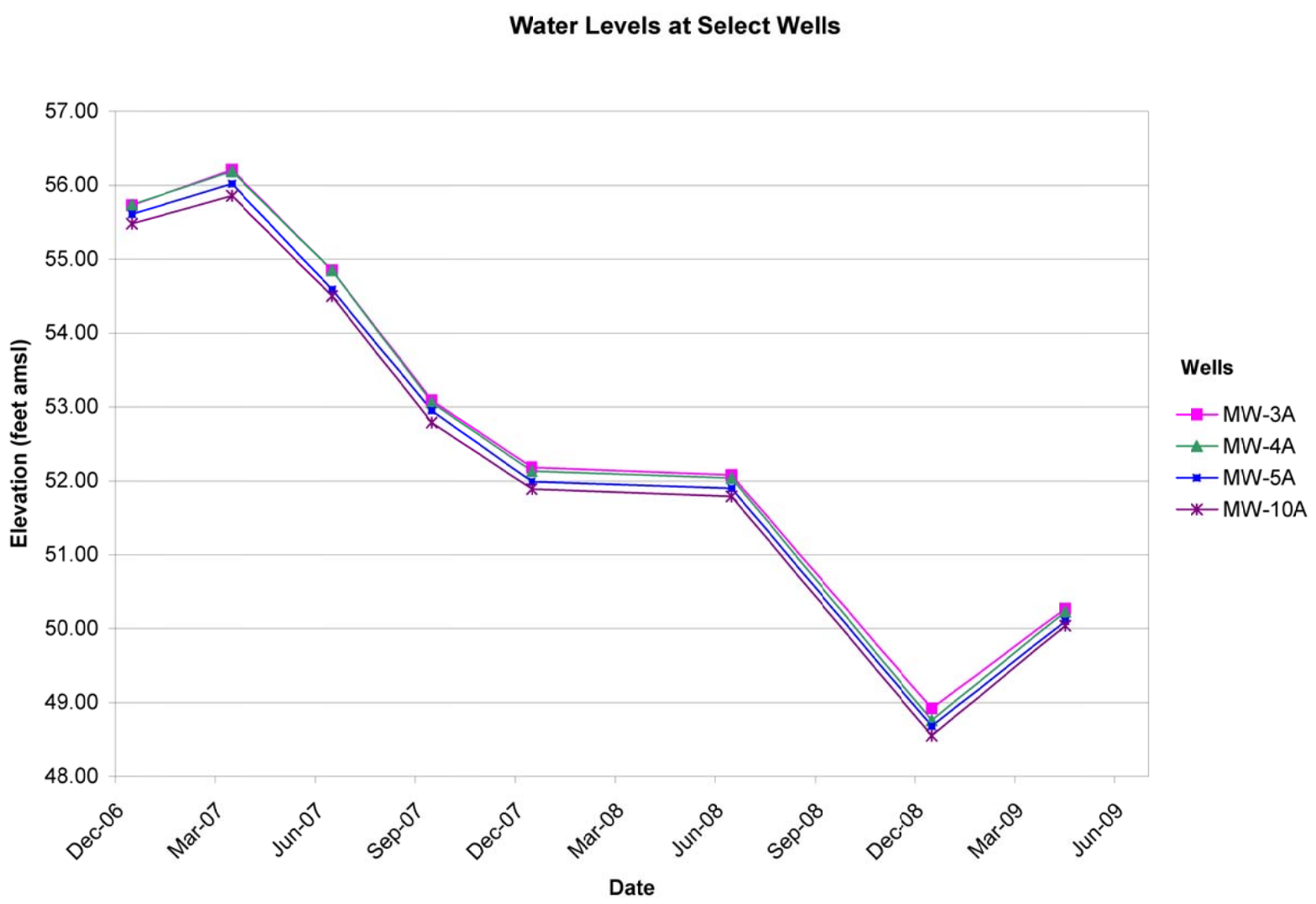
Drafter: RS Date: 5/8/09 Contract Number: 03-15193A

Approved: Revised:

Groundwater Elevation and Potentiometric Map
1180 - 1184 Campbell Avenue
San Jose, California

Figure
2

Q:\DRAWINGS\0315193a\0315193A-WATLEV-EXCEL-5-2009.dwg – Fri, 08 May 2009 – 1:47pm



ENVIRON

Water Levels at Select Wells
1180-1184 Campbell Avenue
San Jose, California

Figure
3

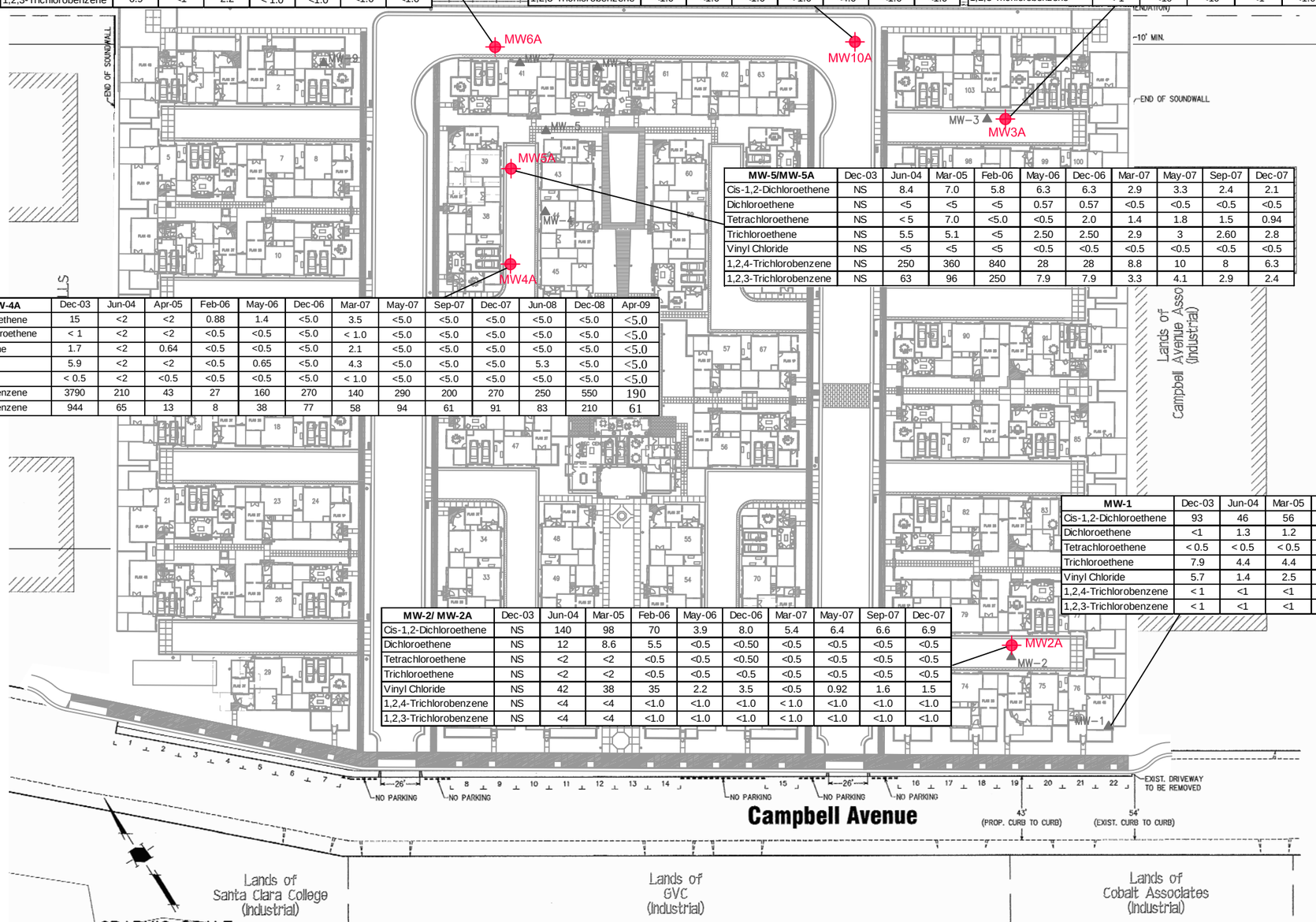
Drafter: RS | Date: 5/8/09 | Contract Number: 03-15193A | Approved: | Revised:

G:\DRAWINGS\03151193a\03151193a-concentration-VOC-5-2009.dwg - Fri, 08 May 2009 - 3:01pm

MW-6A	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07
Cis-1,2-Dichloroethene	7.3	<0.5	1.8	1.0	1.2	<0.5	<0.5
Dichloroethene	< 0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	< 0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5
Trichloroethene	2.3	0.82	1.2	0.63	0.84	0.53	<0.5
Vinyl Chloride	< 0.5	<0.5	<0.50	<0.5	<5.0	<0.5	<0.5
1,2,4-Trichlorobenzene	21	<1	8.3	< 1.0	2.9	<1.0	<1.0
1,2,3-Trichlorobenzene	6.9	<1	2.2	< 1.0	<1.0	<1.0	<1.0

MW-10A	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07
Cis-1,2-Dichloroethene	7.1	15	41	0.92	100	1.1	<0.5
Dichloroethene	0.55	<0.5	0.98	<0.5	<2.0	<0.5	<0.5
Tetrachloroethene	0.57	12	130	2.1	160	2.4	1.2
Trichloroethene	3.2	1	16	<0.5	32	<0.5	<0.5
Vinyl Chloride	<0.5	<0.5	<0.50	<0.5	<2.0	<0.5	<0.5
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	< 1.0	<4.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	< 1.0	<4.0	<1.0	<1.0

MW-3/MW-3A	Dec-03	Jun-04	Mar-05	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07	Jun-08	Dec-08	Apr-09
Cis-1,2-Dichloroethene	80	49	62	1.2	31	2.6	0.51	0.72	10	3.8	4.2	45	5
Trans-1,2-Dichloroethene	2	<5	<5	<0.5	<1.0	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5
Tetrachloroethene	450	360	460	2.6	130	22	4.6	4.9	83	29	28	340	44
Trichloroethene	40	31	37	<0.5	15	1.3	<0.5	<0.5	4.4	1.6	2.1	26	2.8
Vinyl Chloride	< 0.5	<5	<5	<0.5	<1.0	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5
1,2,4-Trichlorobenzene	< 1	<10	<10	<1	<2.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0	<1.0
1,2,3-Trichlorobenzene	< 1	<10	<10	<1	<1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<5.0	<1.0



MW-5/MW-5A	Dec-03	Jun-04	Mar-05	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07
Cis-1,2-Dichloroethene	NS	8.4	7.0	5.8	6.3	6.3	2.9	3.3	2.4	2.1
Dichloroethene	NS	<5	<5	<5	0.57	0.57	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	NS	< 5	7.0	<5.0	<0.5	2.0	1.4	1.8	1.5	0.94
Trichloroethene	NS	5.5	5.1	<5	2.50	2.50	2.9	3	2.60	2.8
Vinyl Chloride	NS	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	NS	250	360	840	28	28	8.8	10	8	6.3
1,2,3-Trichlorobenzene	NS	63	96	250	7.9	7.9	3.3	4.1	2.9	2.4

MW-4/MW-4A	Dec-03	Jun-04	Apr-05	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07	Jun-08	Dec-08	Apr-09
Cis-1,2-Dichloroethene	15	<2	<2	0.88	1.4	<5.0	3.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trans-1,2-Dichloroethene	< 1	<2	<2	<0.5	<0.5	<5.0	< 1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	1.7	<2	0.64	<0.5	<0.5	<5.0	2.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5.9	<2	<2	<0.5	0.65	<5.0	4.3	<5.0	<5.0	<5.0	5.3	<5.0	<5.0
Vinyl Chloride	< 0.5	<2	<0.5	<0.5	<0.5	<5.0	< 1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	3790	210	43	27	160	270	140	290	200	270	250	550	190
1,2,3-Trichlorobenzene	944	65	13	8	38	77	58	94	61	91	83	210	61

MW-1	Dec-03	Jun-04	Mar-05	Feb-06
Cis-1,2-Dichloroethene	93	46	56	7.0
Dichloroethene	<1	1.3	1.2	<0.5
Tetrachloroethene	< 0.5	< 0.5	< 0.5	<0.5
Trichloroethene	7.9	4.4	4.4	<0.5
Vinyl Chloride	5.7	1.4	2.5	0.57
1,2,4-Trichlorobenzene	< 1	<1	<1	<1.0
1,2,3-Trichlorobenzene	< 1	<1	<1	<1.0

MW-2/ MW-2A	Dec-03	Jun-04	Mar-05	Feb-06	May-06	Dec-06	Mar-07	May-07	Sep-07	Dec-07
Cis-1,2-Dichloroethene	NS	140	98	70	3.9	8.0	5.4	6.4	6.6	6.9
Dichloroethene	NS	12	8.6	5.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	NS	<2	<2	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5
Trichloroethene	NS	<2	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	NS	42	38	35	2.2	3.5	<0.5	0.92	1.6	1.5
1,2,4-Trichlorobenzene	NS	<4	<4	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NS	<4	<4	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0

EXPLANATION:

MW5A Current Ground Water Monitoring Well

▲ Former Ground Water Monitoring Well

- Concentrations shown in µg/L

ENVIRON

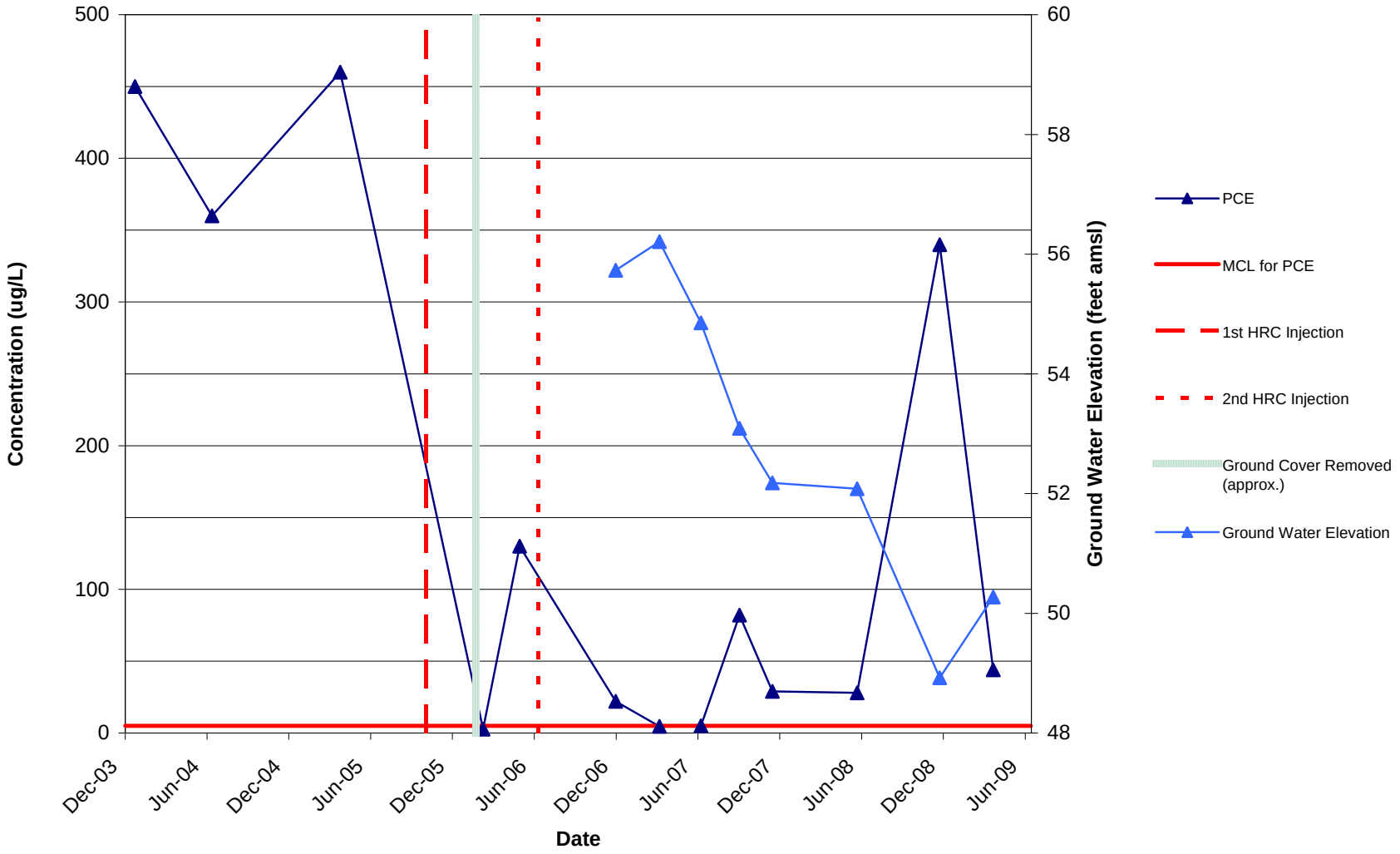
Drafter: RS Date: 5/8/09 Contract Number: 03-15193A

Approved: Revised:

Detected Volatile Organic Compounds
1180 - 1184 Campbell Avenue
San Jose, California

Figure
4

Q:\DRAWINGS\0315193a\0315193A-GRAPH-MW-3-5-2009.dwg – Fri, 08 May 2009 – 3:04pm



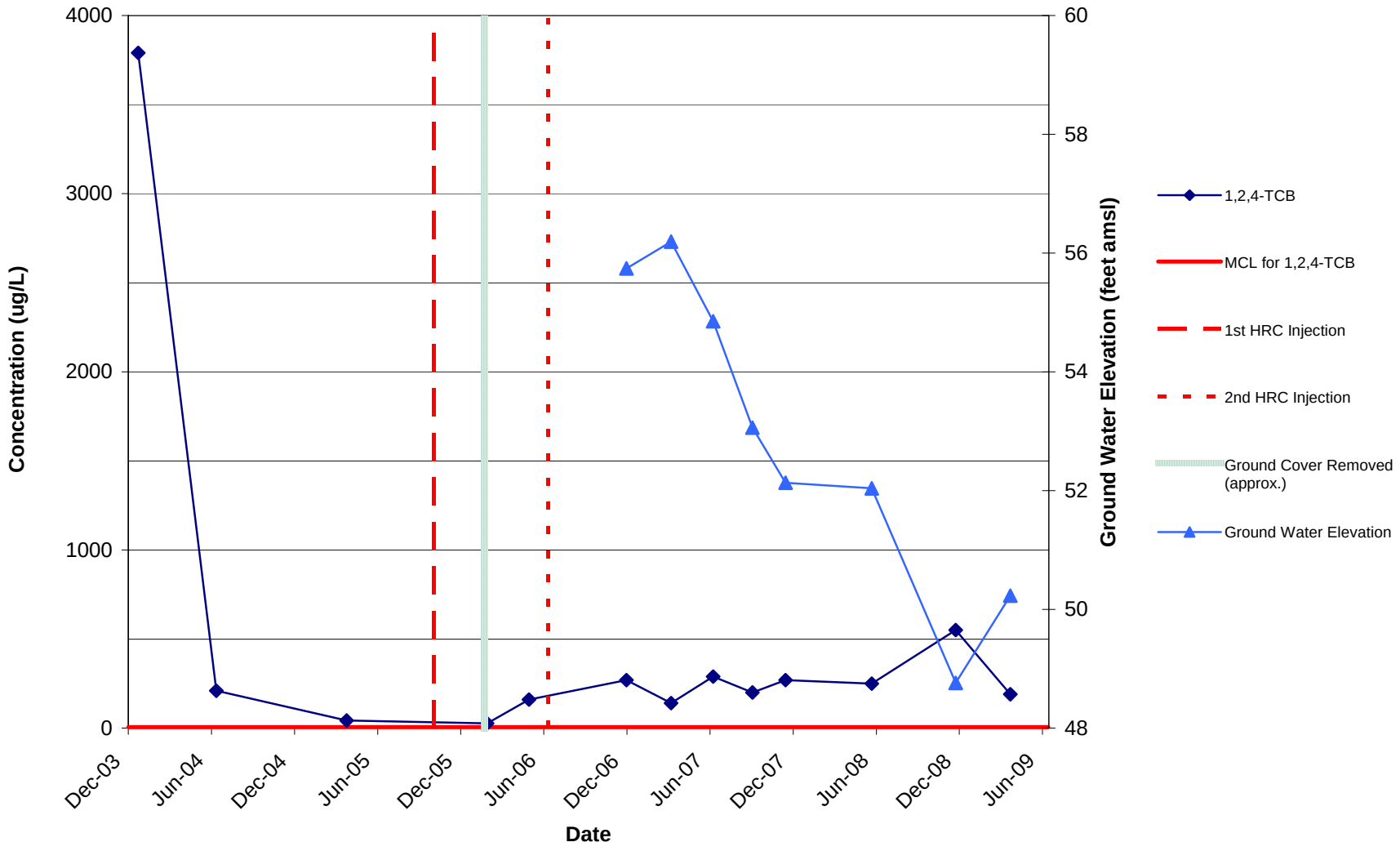
ENVIRON

PCE Concentration Trend in MW-3/MW-3A
1180-1184 Campbell Avenue
San Jose, California

Figure
5

Drafter: RS | Date: 5/8/09 | Contract Number: 03-15193A | Approved: | Revised:

Q:\DRAWINGS\0315193a\0315193A-GRAPH-MW-4-5-2009.dwg – Fri, 08 May 2009 – 3:07pm



ENVIRON

1,2,4-TCB Concentration Trend in MW-4/MW-4A
1180-1184 Campbell Avenue
San Jose, California

Figure
6

Drafter: RS | Date: 5/8/09 | Contract Number: 03-15193A | Approved: | Revised:

APPENDIX A

Ground Water Sampling Forms

MW-3A

ENVIRON
6001 Shellmound St., Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (FAX)

WATER PURGING & SAMPLING LOG

PRELIMINARY FIELD DRAFT REVIEW PENDING

PROJECT NAME: 2Q2009 Semi annual Monitoring - 1180 Campbell Ave. FIELD PERSON: B. McCarty

PROJECT NUMBER: 090416-R001 PROJECT MANAGER: ~~M. Nobles~~ P. Cornish

PROJECT LOCATION: 1180-1184 Campbell Ave. San Jose DATE: 4/16/09

PURGING/SAMPLING METHOD: 2" Redrio pump / Disp. Bailer	WELL NUMBER: MW-3A
EQUIPMENT CLEANING METHOD: Liquinox + Steam clean	CASING RADIUS: 4 (in.)
	TOTAL DEPTH (TD): 27.33 (ft.)
PURGE WATER DISPOSAL: DRUM	DEPTH TO WATER (DTW): 14.56 (ft.)
	CASING VOLUME: 8.3 (gal.)
GALLONS PURGED: 24.9 / CASING VOLUMES: 3	$(TD-DTW)(CR)^2(.163)=$ 3 WELL VOLUMES: 24.9 (gal.)
PURGE START TIME: 0926	PURGE RATE (GPM): .65 gal/min

TIME/GALLONS PURGED	TEMP (°C)	pH	CONDUCTIVITY (µmnos/cm)	TURBIDITY) (NTU)	DTW
0929 / Initial	19.05	* 4.22	3197	645	14.56
0942 / 8.3	19.62	5.41	2459	145	14.81
0954 / 16.6	19.56	5.96	2234	38.3	14.76
1006 / 24.9	19.54	5.99	2226	21.0	14.81
Immediately before sampling	19.53	5.97	2224	21.3	14.80
* checked pH w/ Ultrameter					

PURGE STOP TIME: 1006	FINAL DTW: 14.80 @ 80% = 17.11
LAB NAME: TA-SF	SAMPLE ID: MW-3

OBSERVATIONS/COMMENTS:

Sample time 1010

PUMP SET AT = 24' FEET

FILE: LOGS\WTPSMLOG_Special-EM

ENVIRON
6001 Shellmound St., Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (FAX)

WATER PURGING & SAMPLING LOG

PRELIMINARY FIELD DRAFT REVIEW PENDING

PROJECT NAME: 2Q2009 Semiannual Monitoring - 1180 Campbell Ave. FIELD PERSON: R. McCarthy

PROJECT NUMBER: 01116-RM1 PROJECT MANAGER: P. Connor

PROJECT LOCATION: 1180-1184 Campbell Ave. San Jose DATE: 4/16/09

PURGING/SAMPLING METHOD: 2" RediFlo pump / disp. bailer

EQUIPMENT CLEANING METHOD: Liquinox + Steam clean

PURGE WATER DISPOSAL: Drum

GALLONS PURGED: 25.8

CASING VOLUMES: 3

WELL NUMBER: MW-4A

CASING RADIUS: 4 (in.)

TOTAL DEPTH (TD): 27.80 (ft.)

DEPTH TO WATER (DTW): 14.61 (ft.)

CASING VOLUME: 8.6 (gal.)

$(TD-DTW)(CR)^2(.163)=$

3 WELL VOLUMES: 25.8 (gal.)

PURGE START TIME: 1044

PURGE RATE (GPM): 1 gpm

TIME/GALLONS PURGED	TEMP (°C)	pH	CONDUCTIVITY (µmnos/cm)	TURBIDITY) (NTU)	DTW
1044 / Initial	19.98	6.57	2259	45.8	14.61
1052 / 8.6	20.18	6.56	2212	14.2	14.69
1100 / 17.2	20.10	6.59	2148	5.04	14.73
1108 / 25.8	20.10	6.61	2123	2.53	14.70
Immediately before Sampling	20.10	6.61	2122	2.31	14.68

PURGE STOP TIME: 1108

FINAL DTW: 14.68 @ 80% = 17.24

LAB NAME: TA-SF

SAMPLE ID: MW-4

OBSERVATIONS/COMMENTS:

Sampling time → 1115

PUMP SET AT = 24' FEET

ENVIRON
6001 Shellmound St., Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (FAX)

WATER LEVEL MEASUREMENT LOG
PRELIMINARY FIELD DRAFT REVIEW PENDING

PROJECT NAME: 2Q2009 Semiannual Monitoring, 1180 Campbell Ave. MEASUREMENT DATE: 4/16/09

CONTRACT NUMBER: 090416-RM FIELD PERSON: R. McCarthy

EQUIPMENT MODEL/TYPE	SERIAL NUMBER	LAST CALIBRATION DATE
Durham Geo Slope Indicator	31765	3/26/09
~~31765~~		

MEASURING POINTS AND DATUM USED: TOC

WELL NUMBER	TIME	MEASURING POINT	DEPTH TO GROUNDWATER (FT BGS)	~~DEPTH TO FREE PRODUCT (FT BGS)~~ Depth to Bottom	FREE PRODUCT THICKNESS (FT)	CONDITION OF WELL
MW-2A	0809	TOC	13.03	28.28	N/A	good
MW-3A	0849	TOC	14.56	27.33	N/A	good
MW-4A	0857	TOC	14.61	27.80	N/A	1/2 bolts missing
MW-5A	0827	TOC	15.07	27.59	N/A	good
MW-6A	0817	TOC	14.39	27.54	N/A	1/2 bolts missing
MW-10A	0838	TOC	13.86	27.67	N/A	good.

APPENDIX B

Laboratory Analytical Report

ANALYTICAL REPORT

Job Number: 720-19220-1

Job Description: 1180 Campbell Ave San Jose

For:
ENVIRON International Corp.
6001 Shellmound Street
Suite 700
Emeryville, CA 94608

Attention: Ms. Anne Gates

Approved for release.
Dimple Sharma
Project Manager I
4/29/2009 1:56 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
04/29/2009

cc: Mr. Nicholas Markman

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-J19220-1

Comments
No additional comments.

Receipt
One or more containers for the following sample was received broken or leaking: 1 voa for MW-3.

The following sample was received with headspace in the sample vial: MW-4 2of 3 vials.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENVIRON International Corp. Job Number: 720-19220-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-19220-1	**MW-3**				
cis-1,2-Dichloroethene		5.0	0.50	ug/L	8260B
Tetrachloroethene		44	0.50	ug/L	8260B
Trichloroethene		2.8	0.50	ug/L	8260B
720-19220-2	**MW-4**				
1,2,3-Trichlorobenzene		61	10	ug/L	8260B
1,2,4-Trichlorobenzene		190	10	ug/L	8260B

METHOD SUMMARY

Client: ENVIRON International Corp. Job Number: 720-19220-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENVIRON International Corp. Job Number: 720-19220-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-19220-1	MW-3	Water	04/16/2009 1010	04/17/2009 1355
720-19220-2	MW-4	Water	04/16/2009 1115	04/17/2009 1355

Client: ENVIRON International Corp. Job Number: 720-19220-1

Client Sample ID: MW-3

Lab Sample ID: 720-19220-1 Date Sampled: 04/16/2009 1010
Client Matrix: Water Date Received: 04/17/2009 1355

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-49385 Instrument ID: Saturn 2K3
Preparation: 5030B Lab File ID: d:\data\200904\042809\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/28/2009 1602 Final Weight/Volume: 40 mL
Date Prepared: 04/28/2009 1602

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND	*	0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	5.0		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: ENVIRON International Corp. Job Number: 720-19220-1

Client Sample ID: MW-3

Lab Sample ID: 720-19220-1 Date Sampled: 04/16/2009 1010
Client Matrix: Water Date Received: 04/17/2009 1355

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-49385 Instrument ID: Saturn 2K3
Preparation: 5030B Lab File ID: d:\data\200904\042809\SA-
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 04/28/2009 1602 Final Weight/Volume: 40 mL
Date Prepared: 04/28/2009 1602

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	44		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	2.8		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 131
1,2-Dichloroethane-d4 (Surr)	88	72 - 125
Toluene-d8 (Surr)	103	82 - 120

Client: ENVIRON International Corp. Job Number: 720-19220-1

Client Sample ID: **MW-4**

Lab Sample ID: 720-19220-2 Date Sampled: 04/16/2009 1115
Client Matrix: Water Date Received: 04/17/2009 1355

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-49309 Instrument ID: Saturn 2K3
Preparation: 5030B Lab File ID: d:\data\200904\042709\SA-
Dilution: 10 Initial Weight/Volume: 40 mL
Date Analyzed: 04/27/2009 1938 Final Weight/Volume: 40 mL
Date Prepared: 04/27/2009 1938

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		50
Acetone	ND		500
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		10
Chlorobromomethane	ND		10
Bromoform	ND		10
Bromomethane	ND		10
2-Butanone (MEK)	ND		500
n-Butylbenzene	ND		10
sec-Butylbenzene	ND		10
tert-Butylbenzene	ND		10
Carbon disulfide	ND		50
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		10
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		10
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		10
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		5.0
Dichlorodifluoromethane	ND		5.0
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		10
2-Hexanone	ND		500
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		10
Methylene Chloride	ND		50

Client: ENVIRON International Corp. Job Number: 720-19220-1

Client Sample ID: MW-4

Lab Sample ID: 720-19220-2 Date Sampled: 04/16/2009 1115
Client Matrix: Water Date Received: 04/17/2009 1355

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-49309 Instrument ID: Saturn 2K3
Preparation: 5030B Lab File ID: d:\data\200904\042709\SA-
Dilution: 10 Initial Weight/Volume: 40 mL
Date Analyzed: 04/27/2009 1938 Final Weight/Volume: 40 mL
Date Prepared: 04/27/2009 1938

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		500
Naphthalene	ND		10
N-Propylbenzene	ND		10
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	61		10
1,2,4-Trichlorobenzene	190		10
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		10
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		500
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 131
1,2-Dichloroethane-d4 (Surr)	82	72 - 125
Toluene-d8 (Surr)	105	82 - 120

DATA REPORTING QUALIFIERS

Client: ENVIRON International Corp. Job Number: 720-19220-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	RPD of the LCS and LCSD exceeds the control limits

Client: ENVIRON International Corp. Job Number: 720-19220-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-49309					
LCS 720-49309/3	Lab Control Sample	T	Water	8260B	
LCSD 720-49309/2	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-49309/5	Method Blank	T	Water	8260B	
720-19220-A-1 MS	Matrix Spike	T	Water	8260B	
720-19220-A-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-19220-2	MW-4	T	Water	8260B	
Analysis Batch:720-49385					
LCS 720-49385/3	Lab Control Sample	T	Water	8260B	
LCSD 720-49385/2	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-49385/5	Method Blank	T	Water	8260B	
720-19220-1	MW-3	T	Water	8260B	
720-19221-B-5 MS	Matrix Spike	T	Water	8260B	
720-19221-B-5 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Method Blank - Batch: 720-49309

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-49309/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1138
Date Prepared: 04/27/2009 1138

Analysis Batch: 720-49309
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042709\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Method Blank - Batch: 720-49309

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-49309/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1138
Date Prepared: 04/27/2009 1138

Analysis Batch: 720-49309
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042709\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 131
1,2-Dichloroethane-d4 (Surr)	87	72 - 125
Toluene-d8 (Surr)	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp. Job Number: 720-19220-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-49309

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-49309/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1210
Date Prepared: 04/27/2009 1210

Analysis Batch: 720-49309
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042709\LS-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-49309/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/27/2009 1242
Date Prepared: 04/27/2009 1242

Analysis Batch: 720-49309
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042709\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	93	70 - 130	1	20		
Chlorobenzene	100	105	70 - 130	5	20		
1,1-Dichloroethene	91	87	70 - 130	5	20		
Toluene	95	95	70 - 130	1	20		
Trichloroethene	87	91	70 - 130	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	92	94	74 - 131
1,2-Dichloroethane-d4 (Surr)	86	85	72 - 125
Toluene-d8 (Surr)	99	97	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-49309

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-19220-A-1 MS	Analysis Batch: 720-49309	Instrument ID: Saturn 2K3
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200904\042709\S
Dilution:	5.0		Initial Weight/Volume: 40 mL
Date Analyzed:	04/27/2009 1314		Final Weight/Volume: 40 mL
Date Prepared:	04/27/2009 1314		

MSD Lab Sample ID:	720-19220-A-1 MSD	Analysis Batch: 720-49309	Instrument ID: Saturn 2K3
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200904\042709\SA
Dilution:	5.0		Initial Weight/Volume: 40 mL
Date Analyzed:	04/27/2009 1347		Final Weight/Volume: 40 mL
Date Prepared:	04/27/2009 1347		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	93	70 - 130	2	20		
Chlorobenzene	103	103	70 - 130	0	20		
1,1-Dichloroethene	91	86	70 - 130	6	20		
Toluene	97	93	70 - 130	3	20		
Trichloroethene	93	91	70 - 130	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	88	87	72 - 125
Toluene-d8 (Surr)	101	101	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Method Blank - Batch: 720-49385

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-49385/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1010
Date Prepared: 04/28/2009 1010

Analysis Batch: 720-49385
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042809\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Method Blank - Batch: 720-49385

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-49385/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1010
Date Prepared: 04/28/2009 1010

Analysis Batch: 720-49385
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042809\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 131
1,2-Dichloroethane-d4 (Surr)	85	72 - 125
Toluene-d8 (Surr)	96	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp. Job Number: 720-19220-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-49385

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-49385/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1042
Date Prepared: 04/28/2009 1042

Analysis Batch: 720-49385
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042809\LS-
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-49385/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/28/2009 1114
Date Prepared: 04/28/2009 1114

Analysis Batch: 720-49385
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200904\042809\LD-V
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	94	92	70 - 130	3	20		
Chlorobenzene	108	106	70 - 130	1	20		
1,1-Dichloroethene	89	86	70 - 130	4	20		
Toluene	94	90	70 - 130	4	20		
Trichloroethene	89	89	70 - 130	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	93	90	74 - 131
1,2-Dichloroethane-d4 (Surr)	81	80	72 - 125
Toluene-d8 (Surr)	84	84	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-49385

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-19221-B-5 MS	Analysis Batch: 720-49385	Instrument ID: Saturn 2K3
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200904\042809\S
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	04/28/2009 1146		Final Weight/Volume: 40 mL
Date Prepared:	04/28/2009 1146		

MSD Lab Sample ID:	720-19221-B-5 MSD	Analysis Batch: 720-49385	Instrument ID: Saturn 2K3
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200904\042809\SA
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	04/28/2009 1218		Final Weight/Volume: 40 mL
Date Prepared:	04/28/2009 1218		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	92	94	70 - 130	1	20		
Chlorobenzene	106	106	70 - 130	0	20		
1,1-Dichloroethene	87	94	70 - 130	7	20		
Toluene	94	98	70 - 130	4	20		
Trichloroethene	103	95	70 - 130	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	99	74 - 131
1,2-Dichloroethane-d4 (Surr)	90	87	72 - 125
Toluene-d8 (Surr)	98	98	82 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: ENVIRON International Corp.

Job Number: 720-19220-1

Login Number: 19220
Creator: Hoang, Julie
List Number: 1

List Source: TestAmerica San Francisco

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	ncm
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	ncm
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ENVIRON
600 Shellmound Street, Suite 700
Emeryville, California 94608
(510) 655-7400
(510) 655-9517 (fax)

720-19220 CHAIN-of-CUSTODY

(115756)

03186

PAGE 1 of 1

PROJECT NAME / FACILITY ID: 1180 Campbell Ave. Semiannual Monitoring FIELD PERSON: Dan Clark

PROJECT NUMBER: 03-15193A DATE: 4/16/09 PROJECT MANAGER: Anne Gates

PROJECT LOCATION: 1180 Campbell Ave, San Jose, CA LABORATORY: Test America

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y (N) IF YES, GLOBAL ID #: _____ WO#: _____

SAMPLER: R. McCarthy

SIGNATURE: [signature]

SAMPLE I.D. NUMBER	SAMPLE DATE (YEAR 2009)	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED: VOCs - 8260B			COMMENTS
MW-3	4/16	1010	N/A	W	3	U	HCl	X			
MW-4	4/16	1115	N/A	W	3	U	HCl	X			
TOTAL	X	X	X	X	6	X	X	2			

DC 4/16/09

RELINQUISHED BY:	TIME/DATE:	RECEIVED BY:	TIME/DATE:
[signature]	1148 / 4/16/09	D. Clark (COMPANY): ENVIRON	1148 / 4/16/09
Daniel Clark	1110 / 4/17/09	[signature] (COMPANY): Test America	1109 / 1110 / 4/17/09
[signature]	4/17/09 1355	[signature] (COMPANY):	1355 / 4.17.09

(TAST)

TURNAROUND TIME (CIRCLE ONE): SAMEDAY, 24 HOURS, 48 HOURS, 72 HOURS, 5 DAYS, NORMAL

SAMPLE INTEGRITY: INTACT: (Y) N Temp 3.6°C

F SEALED, SEAL INTEGRITY: INTACT: Y N

H - HCL; N - HNO3; S - H2SO4; U - UNKNOWN; NO - NONE; O - OTHER

TABLES

F I G U R E S

APPENDIX A

Ground Water Sampling Forms

APPENDIX B

Laboratory Analytical Report

Laws, Regulations &

Pollution Prev

Managing Hazardous Waste

Preventing environmental damage from hazardous wastes, and restoring contaminated sites for all Californians

Public Involvemen

Cleanup

Science & Tech

State of California

Department of Toxic Substances Control

Public Involvement

FACT SHEET, June 2005

Cleanup Proposed for 1180-1184 Campbell Avenue San Jose, California

The Department of Toxic Substances Control (DTSC) is working with Santa Clara Development Company (SCDC) to address cleanup of chemicals detected in the soil and groundwater on the property located at 1180, 1182 and 1184 Campbell Avenue (the Site), San Jose, California. See site map on Page 3. The Site is proposed for residential redevelopment.

The Santa Clara Development Company has drafted a proposed cleanup plan, called a Draft Removal Action Workplan (Draft RAW), to treat groundwater contamination at the site and to restrict digging in the area where soil is contaminated. We encourage you to review and comment on the Draft RAW which is available for your review at the information repositories listed on page 4. If you have questions about this site, please contact Ms. Virginia Lasky, DTSC Project Manager, at 510.540.3829 or e-mail vlasky@dtsc.ca.gov.

This Fact Sheet Will Tell You:

- History and background of the site
- Description of the project
- Findings of the investigation
- Proposed cleanup
- Public Comment Period

PUBLIC COMMENT PERIOD

We encourage you to review and comment on the Draft RAW. The Public Comment period is: June 23 through July 23, 2005

The Draft RAW and other related project documents are available at the local information repositories listed on this fact sheet. Please send comments to Virginia Lasky, Project Manager, DTSC, 700 Heinz Avenue, Berkeley, CA 94710. We will consider and respond to all public comments before making a final decision on this site.

A public meeting will be considered if one is requested. Please submit a written request for a public meeting, including the issues to be raised, to the address above by the end of the public comment period.

History and background of the Site:

The Site is an approximately 7.83-acre rectangular-shaped property surrounded by primarily industrial land approximately four and one half miles northwest of downtown San Jose, California. The Site appears to have been agricultural land prior to 1954. Three buildings are located on the Site and were constructed in approximately 1954. The buildings and property have been used for light industrial purposes since that time.

The facility was operated by the Stokely Van Camp Company for the production and storage of frozen food from the mid 1950's through the mid 1980's. In 1982, the Site was purchased by Custom Food Machinery (CFM). CFM's operations involved refurbishing and rebuilding food processing machinery and equipment for resale. The Site was operated by CFM until December 1991.

The Site appears to have been vacant until 1993, when it was leased to the MMAD Partnership. The MMAD Partnership purchased the Site in 1995 and is the current owner. Under the current owner, the Site is used for air freight distribution operations including packaging, crating and warehousing, and vehicle maintenance.

Findings of the investigations:

Investigations and cleanups have been conducted at the site since 1986 due to a release of transformer oil contaminated with polychlorinated biphenyls (PCBs). Soil contaminated with PCBs was removed and additional sampling indicated that there were no PCBs above 1 milligram per kilogram (part per million or ppm) remaining in the top 15 feet of soil at the site. Elevated levels of PCBs do occur at approximately 20 to 22 feet below the ground surface. Additional samples collected in 2005 confirmed that the PCBs remain in a isolated area at a depth of approximately 20 feet.

Additional investigations in December 2003, June 2004, and April 2005 detected several VOCs (volatile organic compounds) and petroleum hydrocarbon-related constituents in soil gas and groundwater. The primary VOCs of concerns that were detected above the cleanup goals were tetrachloroethylene (PCE), vinyl chloride and 1,2,4-trichlorobenzene (TCB).

Options for cleaning up the Site (Draft RAW):

The primary objective of the Draft RAW is to conduct a remediation action to prevent or reduce potential risks to public health and the environment. A Draft RAW summarizes previous studies, outlines available cleanup activities and proposes removal options. In addition to cleanup methods, a Draft RAW identifies the possible removal alternatives. Removal alternatives are screened and evaluated on the basis of their effectiveness, ability to implement and cost. Cleanup goals are also developed to comply with applicable laws and to be consistent with proposed land use. The options are listed in the Draft RAW, which you can review in the Information Repositories listed on page four

Before DTSC makes a final decision to approve or deny the proposed plan, we will review and consider the comments received during the 30-day public comment period.

Proposed cleanup method:

DTSC is proposing Institutional Controls, Monitoring and Enhanced Biodegradation as the recommended alternative because it is the most protective of human health accelerates the breakdown of VOCs in groundwater, can achieve removal action objectives, and can be readily implemented.

Although exposure to the PCBs at 21 feet deep is unlikely, institutional controls will be imposed. The institutional controls will consist of a deed restriction to prevent disturbance of soil at depths greater than 15 feet below ground surface (bgs) in the future lots where PCBs were detected above 1 part per million.

Enhanced Biodegradation will consist of njection of Hydrogen Release Compound (HRC®)/HRC-Primer. HRC is a proprietary organic substance, a food–grade substance that is manufactured as a

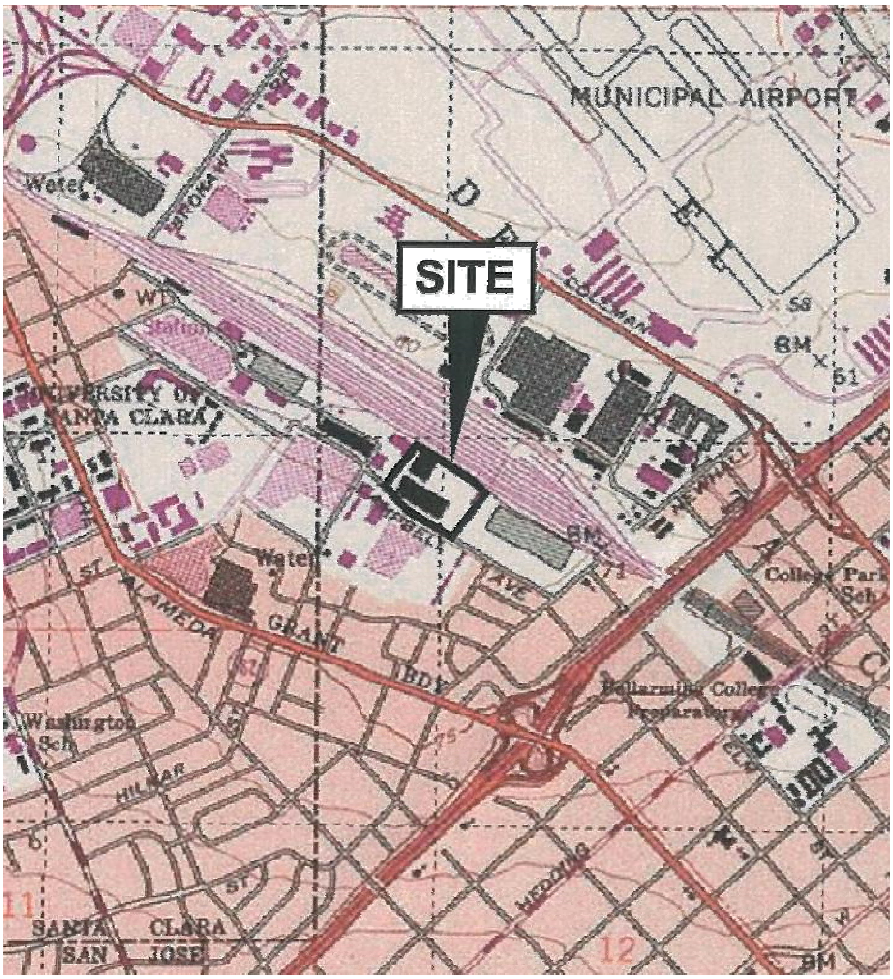
concentrated viscous gel. HRC creates a reducing environment in the groundwater which encourages the naturally occurring microorganisms to break down the VOCs and TCB. Groundwater monitoring will be conducted from six new wells installed after Site grading and utility installation is completed. If groundwater monitoring data indicates VOCs are not completely breaking down, contingency plans will be implemented. The contingency plans include injection of Bio-Dechlor Inoculum (BDI) (or similar product), and/or pumping and the disposal of contaminated groundwater from the affected wells. BDI is a naturally occurring bacterium which degrades in the environment.

California Environmental Quality Act - Notice of Exemption:

DTSC has prepared a Draft Notice of Exemption (NOE) for this project as required by the California Environmental Quality Act. The Draft NOE states that the project will not have a potential for significant effects on the environment or human health because of controls in placed during the remediation of the groundwater.

Next steps:

- First all of the buildings, asphalt and concrete will be demolished and removed from the site.
- The HRC/HRC Primer will then be injected in the two areas where groundwater cleanup is required.
- The site will then be graded and roads and utilities will be installed.
- Groundwater monitoring wells will then be installed.
- Based on monitoring results a determination will be made whether to implement the contingencies.



Aerial map of Campbell Avenue Site

FOR MORE INFORMATION

For Questions Regarding Public Participation
DTSC Public Participation Specialist
Richard Perry, 510540.3910
E-mail: rperry@dtsc.ca.gov

For Questions Regarding the Cleanup Plan
DTSC Project Manager
Virginia, Lasky, 510.540.3829
E-mail: vlasky@dtsc.ca.gov

For Media Questions
DTSC Public Information Officer
Angela Blanchette, 510.540.3732
E-mail: ablanchette@dtsc.ca.gov

ANUNCIO

Si prefiere hablar con alguin en espanol acerca de esta informacion, favor de llamar a Jacinto Soto de el Departmento de Control de Substancias Toxicas. El numero de telefono es (510) 540-3842.

INFORMATION REPOSITORIES

The Draft RAW and other project documents are available for review at :

Dr. Martin Luther King Library
150 E. San Fernando Street
San Jose, CA 95112

DTSC File Room
700 Heinz Avenue
Berkeley, CA 94710
510.540.3800
9:00 AM – 5:00 PM

NOTICE TO HEARING IMPAIRED INDIVIDUALS

TDD users can obtain information about the site by using the California State Relay Service (888) 877-5378 to reach the Public Participation Specialist.

Mailing Coupon for the 1180, 1182 and 1184 Campbell Avenue Site

If you did not receive this fact sheet in the mail and would like to be placed on the mailing list to receive information about this project in the future, please complete this coupon and return it to: Richard A. Perry, Department of Toxic Substances Control, 700 Heinz Avenue, Berkeley, CA 94710

Name_____

Address_____

City_____ State Zip_____

Please note: mailing lists are public information and may be released under the Public Records Act.

California Regional Water Quality Control Board
San Francisco Bay Region

Terry Tamminen
Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.swrcb.ca.gov/rwqcb2

Arnold Schwarzenegger
Governor

May 14, 2004
File No. 43-3112 (BGS)

RECEIVED
MAY 19 2004
SANTA CLARA VALLEY WATER DISTRICT

Mr. Tim Blue
Blue's Roofing
1181 Campbell Avenue
San Jose, CA 95126

Bobalt Associates
c/o Macanan Marketing
333 West Santa Clara Street, Suite 280
San Jose, CA 95113

Subject: **Transmittal of the Closure Letter and Site Closure Summary – Blue's Roofing, 1181 Campbell Avenue, San Jose, Santa Clara County, SCVWDID # 07S1W01N02f, LOP # 14-412**

Dear Ladies and Gentlemen:

Attached please find the uniform underground storage tank closure letter and the site closure summary for the subject site. Please contact Barbara Sieminski of my staff at (510) 622-2423 or e-mail bgs@rb2.swrcb.ca.gov if you any questions regarding this matter.

Residual contamination both in soil and groundwater remains at the site that could pose an unacceptable risk under certain site development activities such as site grading, excavation, or the installation of water wells. The District and the appropriate planning and building department shall be notified prior to any changes in land use, grading activities, excavation, and installation of water wells. This notification shall include a statement that residual contamination exists on the property and list all mitigation actions, if any, necessary to ensure compliance with this site management requirement. The levels of residual contamination and any associated site risk are expected to reduce with time.

Sincerely,

for Bruce H. Wolfe
Executive Officer

Enclosures: Closure Letter
Case Closure Summary (5 pages) with Attachments (14 pages)

cc: (w/o Summary)

Ms. Grace Cheng SCVWD 5750 Almaden Expwy San Jose, CA 95118	Ms. Lily Lee SWRCB UST Cleanup Fund	Ms. Dianna Flanagin SWRCB UST Programs Inf. Sys.

California Regional Water Quality Control Board
San Francisco Bay Region

Terry Tamminen
Secretary for Environmental Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
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Arnold Schwarzenegger
Governor

May 14, 2004
File No. 43-3112 (BGS)

Mr. Tim Blue
Blue's Roofing
1181 Campbell Avenue
San Jose, CA 95126

Bobalt Associates
c/o Macanan Marketing
333 West Santa Clara Street, Suite 280
San Jose, CA 95113

Subject: **Case Closure – Blue's Roofing, 1181 Campbell Avenue, San Jose, Santa Clara County, SCVWDID # 07S1W01N02f, LOP # 14-412**

Dear Ladies and Gentlemen:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based upon the available information, including the land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Water Code of Regulations, Division 3, Chapter 16, Section 2721(e). If change in land use is proposed, the owner must promptly notify this agency.

Please contact our office, if you have any questions regarding this matter.

Sincerely,

for Bruce H. Wolfe
Executive Officer

Santa Clara Valley Water District

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK PROGRAM

I. AGENCY INFORMATION

Date: January 22, 2004

Agency Name: Santa Clara Valley Water District	Address: 5750 Almaden Expressway
City/State/Zip: San Jose, CA 95118	Phone: (408) 265-2600
Responsible Staff person: Grace Cheng	Title: Water Quality Specialist

II. CASE INFORMATION

Site Facility Name: Blue's Roofing		
Site Facility Address: 1181, Campbell Avenue, San Jose CA 95126		
RB LUSTIS Case No.: -----	Local Case No.: 07S1W01N02f	LOP Case No.: 14-412
URF Filing Date: 1-14-1997	SWEEPS No.: -----	APN: 230-13-011
Responsible Parties	Addresses	Phone Numbers
Mr. Tim Blue Blue's Roofing	1181 Campbell Avenue, San Jose CA 95126	(408) 984-3494
Cobalt Associates c/o Macanan Marketing	333 West Santa Clara Street, Suite 280, San Jose, CA 95113	(408) 280-6300

Tank I.D. No.	Size in Gallons	Contents	Closed In Place/Removed	Date
1	2000	Gasoline	Removed	5-22-1996
2	2000	Gasoline	Removed	5-22-1996
3	2000	Diesel	Removed	5-22-1996
Piping			Unknown	Unknown

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown	
Site characterization complete? Yes	Date Approved by Oversight Agency: --

Monitoring wells installed? Yes	Number: 7*	Proper screened interval? No**
Highest GW Depth Below Ground Surface: 3.13'	Lowest Depth: 5.5'	Flow Direction: North
Most Sensitive Current Use: Potential Drinking Water Supply		

*Total seven monitoring wells were installed at the subject site. Four of monitoring wells were vadose monitoring well and the other three wells are groundwater monitoring wells

** Well screens are submerged from 2.2 feet bgs to 6.1 feet bgs

Summary of Production Wells in Vicinity: A well search indicates that one abandoned well (07S01W01P001) exists within ¼ miles radius of the site, located at approximately 1,300 feet east of the subject site. Based on the extent of the contamination, groundwater flow and gradient, the well is unlikely to be affected by the reported release.	
Are drinking water wells affected? No	Aquifer Name: Santa Clara Valley Water Basin
Is surface water affected? No	Nearest SW Name: Guadalupe River,~6000 feet away from the site
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Santa Clara Valley Water District

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal 2/Destination)	Date
Tank	Three at 2,000 gallons	Disposed to Disposal Facility in Richmond	5-22-1996
Piping	Unknown	Unknown	Unknown
Free Product	------	---------	------
Soil	40 cubic yards	Disposed with known destination	Unknown
Groundwater	------	--------	------
Barrels	-------	-------	------

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS—BEFORE AND AFTER CLEANUP

Contaminant	Soil (ppm)		Water (ppb)		Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After		Before[1]	After[4]	Before[3]	After
TPH (Gas)	3.1	<0.1	7900	<50[4]	Xylenes	0.036	<0.005	52	<0.5[4]
TPH (Diesel)	<1.0	<10	1700	<50[4]	Ethylbenzene	0.0089	<0.005	8.3	<0.5[4]
Benzene	<0.005	<0.005	6.4	<0.5[4]	Oil & Grease	------	24	-----	-----
Toluene	0.015	<0.005	21	<0.5[4]	Heavy metals	------	------	-----	----
Other (8240/8270)	-----	------	------	------	MTBE (if not analyzed, explain below	------	<0.01	-----	23[5]

Description of Interim Remediation Activities: UST removal and soil excavation

1= Soil samples collected from the excavation pit, 1996
2= Soil samples collected from borings (B1 to B4), 1999
3= Groundwater sample collected from the excavated pit during UST removal, 1996
4= Groundwater samples collected from monitoring wells (MW-1 to MW-3), 2001
5= Groundwater sample collected from monitoring well (MW-2), 2001

IV. CLOSURE

Does complete corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes
Does corrective action protect public health for current land Use? Santa Clara Valley Water District staff does not make specific determinations concerning public heath risk. However, it does not appear that the release would present a risk to human health.
Site Management Requirements: At this time, this site is an operating fuel dispensing facility. Residual contamination both in soil and groundwater remains at the site could pose an unacceptable risk under certain site development activities such as site grading, excavation, or the installation of water wells. Therefore, the impact of the disturbance of any residual contamination or the installation of a water well in the vicinity of the residual contamination shall be assessed and appropriate actions taken so that there is no significant impact to human health, safety, or the environment. This could necessitate additional sampling, health risk assessment, and mitigation measures. The District and the appropriate planning and building department shall be notified prior to any changes in land use, grading activities, excavation, and installation of water wells. This notification shall include a statement that residual contamination exists on the property and list all mitigation actions, if any, necessary to ensure compliance with this site management requirement. The levels of residual contamination and any associated site risk are expected to reduce with time.
Should corrective action be reviewed if land use changes? Yes, please see Site Management Requirements
Monitoring Wells Decommissioned: Yes* | Number Decommissioned: 4* | Number Retained: 3**
List Enforcement Actions Taken: None
List Enforcement Actions Rescinded: None

*The four destroyed wells were vadose monitoring wells.

** To be properly destroyed prior to issuance of final closure

V. ADDITIONAL COMMENTS, DATA, ETC.

Site History:

1996:
Three 2,000 gallon underground storage tanks (USTs) (two contained gasoline and one contained diesel) were removed from the site in May 22. Groundwater was encountered at 7 feet below ground surface (bgs) and rose to 6 feet bgs. During the USTs removal, the tanks were reported in the good condition. Four vadose-zone-monitoring wells (AEC-1 to AEC-4) were destroyed during the removal and excavation UST activity. Since groundwater was encountered in the excavation pit, soil samples were not collected at the base of excavation tank pit. Instead, six soil samples were collected in the excavation sidewalls. Up to 3.1 parts per million (ppm) Total Petroleum Hydrocarbon as Gasoline (TPHg) were detected. Up to 1,700 parts per billion (ppb) TPHd, 7,900 ppb TPHg, 6.4 ppb Benzene were detected in a groundwater sample collected from the tank pit. Analysis of Methyl tert Butyl Ether (MTBE) was not performed. On May 24, approximately 40 cubic yards of soil was over-excavated and a new double-walled fiberglass 6,000 gallon UST (with compartments of 2,000 and 4,000 gallons) was installed.

1999:
Four soil borings (B1 to B4) were installed in March. Soil and grab groundwater samples were collected and analyzed. Petroleum hydrocarbon concentrations were not detected in soil. Up to 66 ppb TPHg, 2.1 ppb Benzene were detected in grab groundwater samples.

2000:
Three borings were installed and completed as groundwater monitoring wells (MW-1 to MW-3). First groundwater was encountered between depths of 17 to 24 feet below ground surface (bgs). Soil and groundwater samples were collected and analyzed. Up to 1.1 ppm TPHg, 2.1 ppm TPHd were detected in soil samples. Toluene, Ethylbenzene, Xylenes, and MtBE were not detected. Up to 96 TPHg, 120 ppb TPHd, 0.8 ppb Benzene, 1.2 ppb Toluene, 0.6 ppb Ethylbenzene, 2.0 ppb Xylenes and 26 ppb MTBE were detected in groundwater samples.

2001:
In June, groundwater samples were collected and analyzed. Up to 110 ppb TPHd and 23 ppb MTBE were detected.
Conclusions

The vertical and horizontal extent of the hydrocarbon impacted soil and groundwater have been defined by confirmatory soil samples, soil borings, and monitoring wells. Based on the low residual concentrations of petroleum hydrocarbons in

groundwater, the Santa Clara Valley Water District staff has concluded that a continuing threat to groundwater, human health, and the environment from the reported release does not exist at the site and that Regional Water Quality Control Board objectives have not been compromised. It is also expected that natural attenuation will continue to reduce the remaining contamination at the site. Analytical results suggested that impacted groundwater is restricted to the vicinity of the former tank area and the groundwater contaminant plume has stabilized and is currently decreasing.

At this time, this site is an operating fuel dispensing facility.

The Santa Clara Valley Water District staff recommends case closure and no further corrective action is required at this time.

V. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Grace Cheng	Title: Water Quality Specialist
Signature:	Date: 1/22/04
Approved by: James S. Crowley, P.E.	Title: Engineering Unit Manager
Signature:	Date: 1/22/04

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

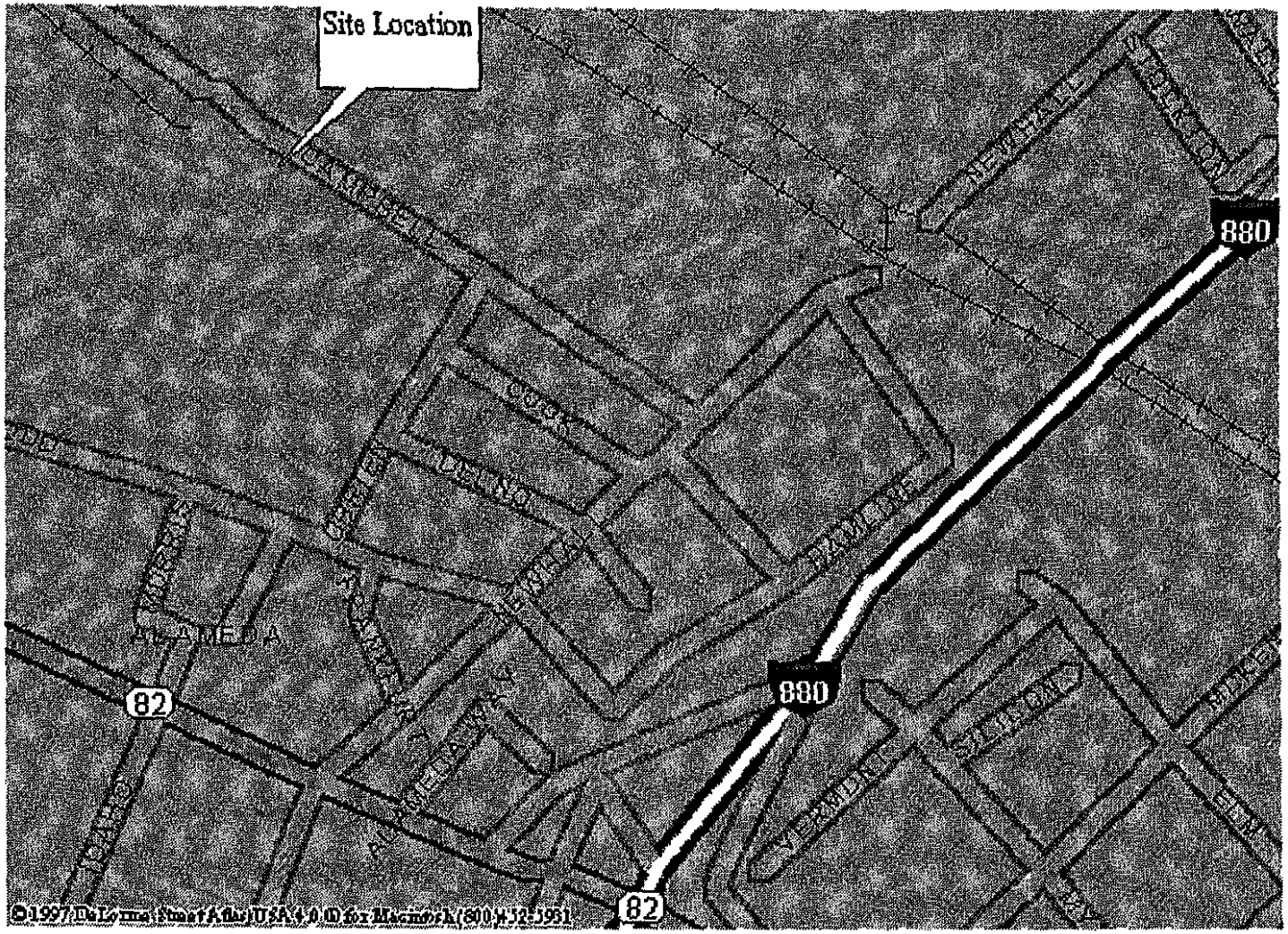
VI. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Barbara Sieminski	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB: 12/10/02
Signature:	Date: 12/19/02

Attachments:

1. Site Vicinity Map
2. Site Plan
3. Soil and Groundwater Analytical Data Upon Tank Removal, 1996
4. Soil and Groundwater Analytical Data for B-1 through B-4, 1999
5. Soil and Groundwater Analytical Data for MW-1 through MW-3, 2000-2001

This document and the related CASE CLOSURE LETTER shall be retained by lead agency as part of the official site file.



Approximate Scale: 1/4" = 0.010 Mile

SIERRA ENVIRONMENTAL, INC.
Environmental Consultants
2084 Alameda Way, Suite 201, San Jose, CA 95126
Phone [408]248-3700 • Fax [408] 248-4700

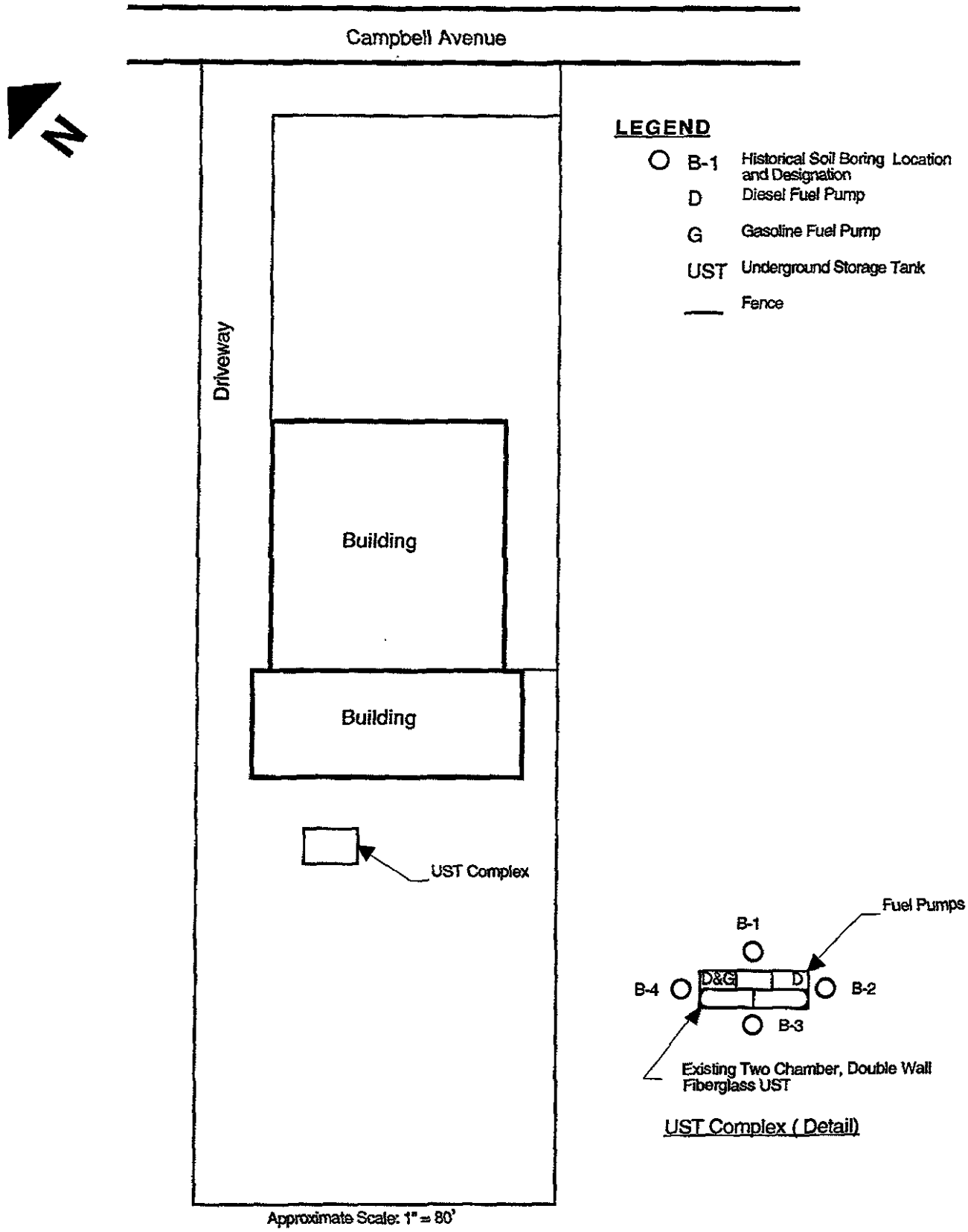
Site Location Map

Second Quarter 2001 Groundwater Monitoring
Blue's Roofing Company

1181 Campbell Avenue • San Jose • California

FIGURE
1
July 2, 2001
Project 00-135.03

ATTACHMENT 1



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Historical Sample Locations

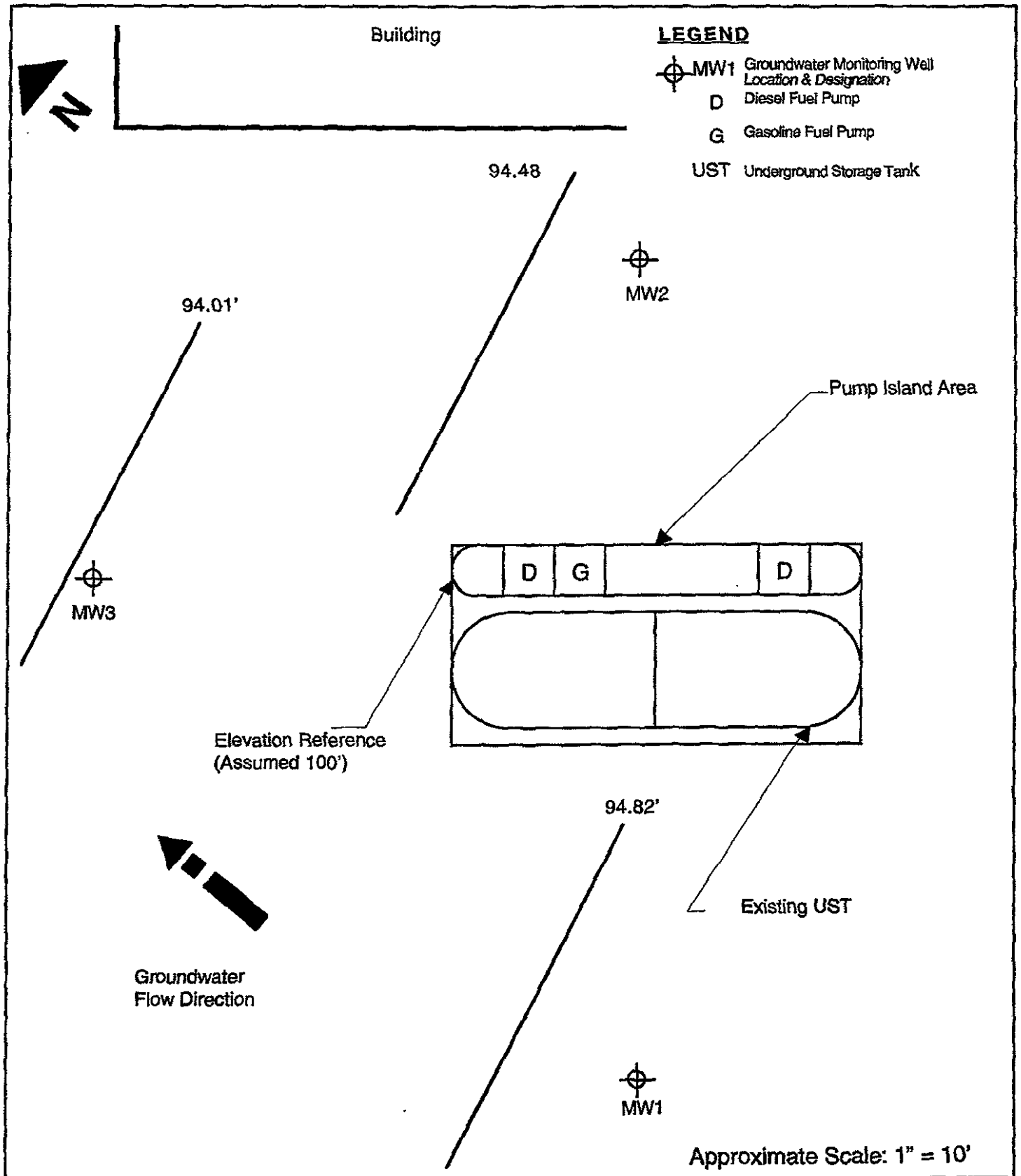
Second Quarter 2001 Groundwater Monitoring

1181 Campbell Ave • San Jose • CA

Figure 2

July 2, 2001
Project 00-135.03

ATTACHMENT 2



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Phone [408]248-3700 • Fax [408] 248-4700

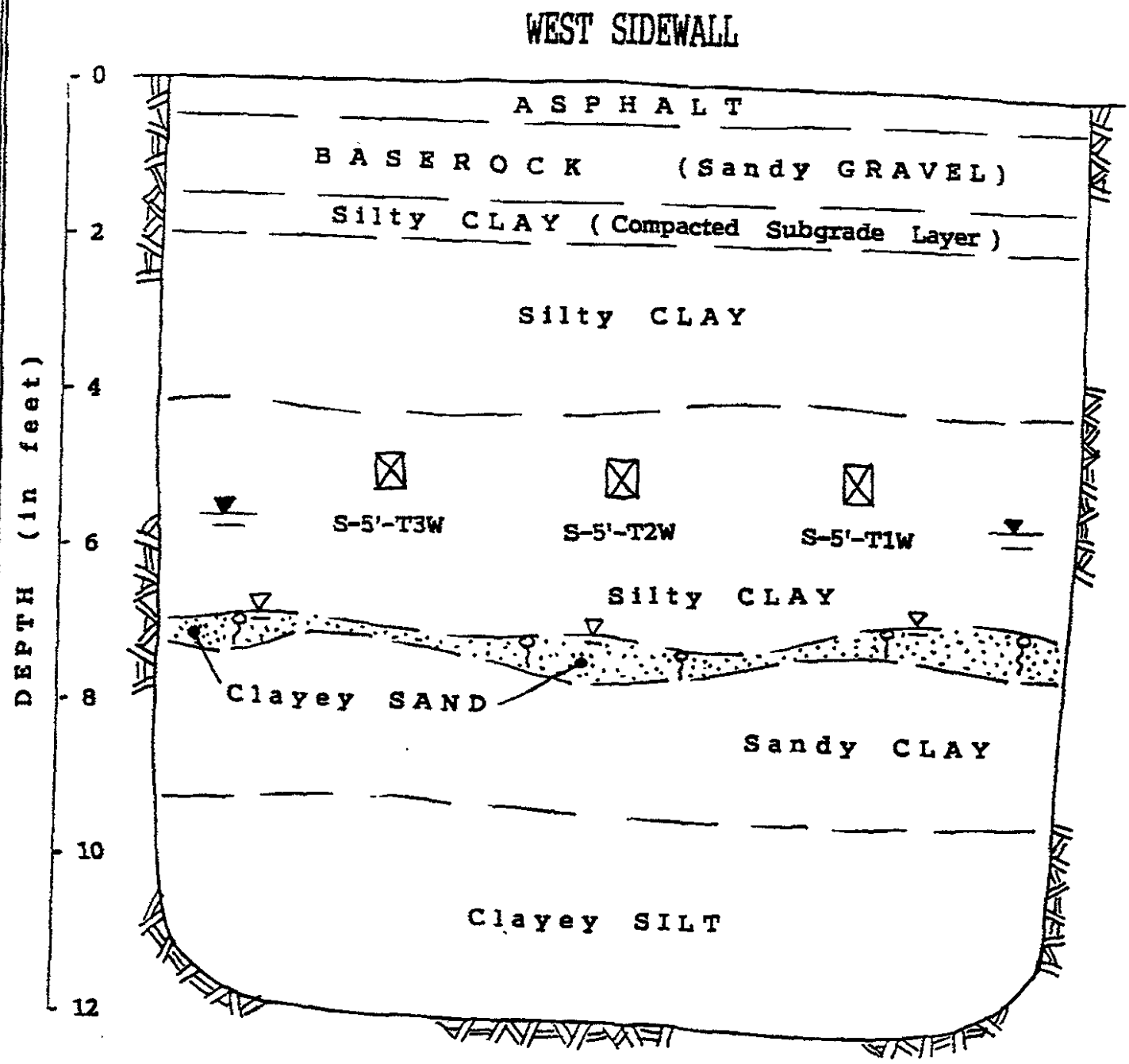
Groundwater Monitoring Well Locations

Second Quarter 2001 Groundwater Monitoring

1181 Campbell Ave • San Jose • CA

Figure 3

July 2, 2001
Project 00-135.03



Horizontal Scale : 1 inch = 5 feet

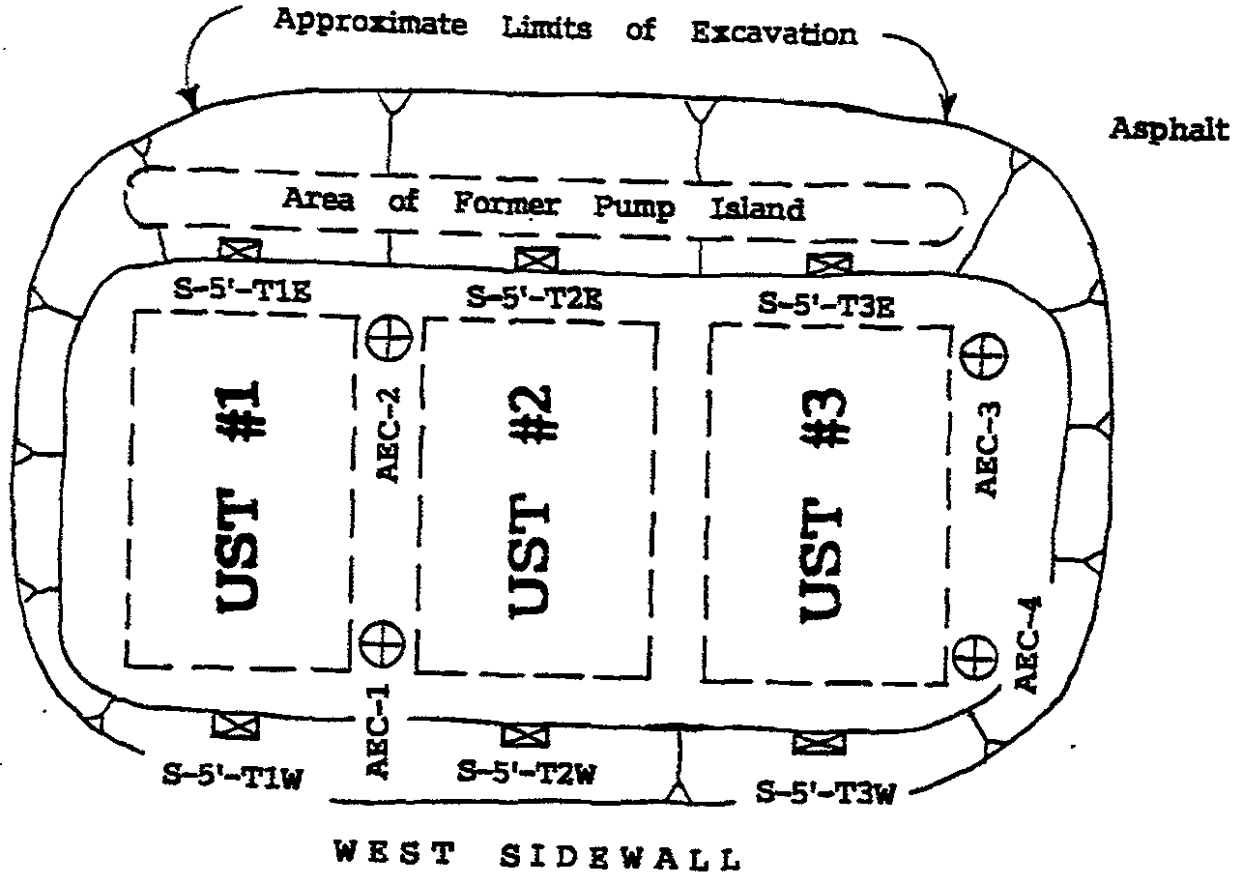
Vertical Scale : 1 inch = 2 feet

▽ = Initial Water Level

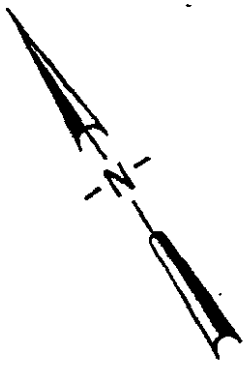
▼ = Stabilized Water Level

FULLER EXCAVATING & DEMOLITION, Inc.	EXCAVATION SOIL PROFILE	FIGURE NO.
Project No. 5101	1181 Campbell Avenue San Jose, California	4

ATTACHMENT 3



Asphalt



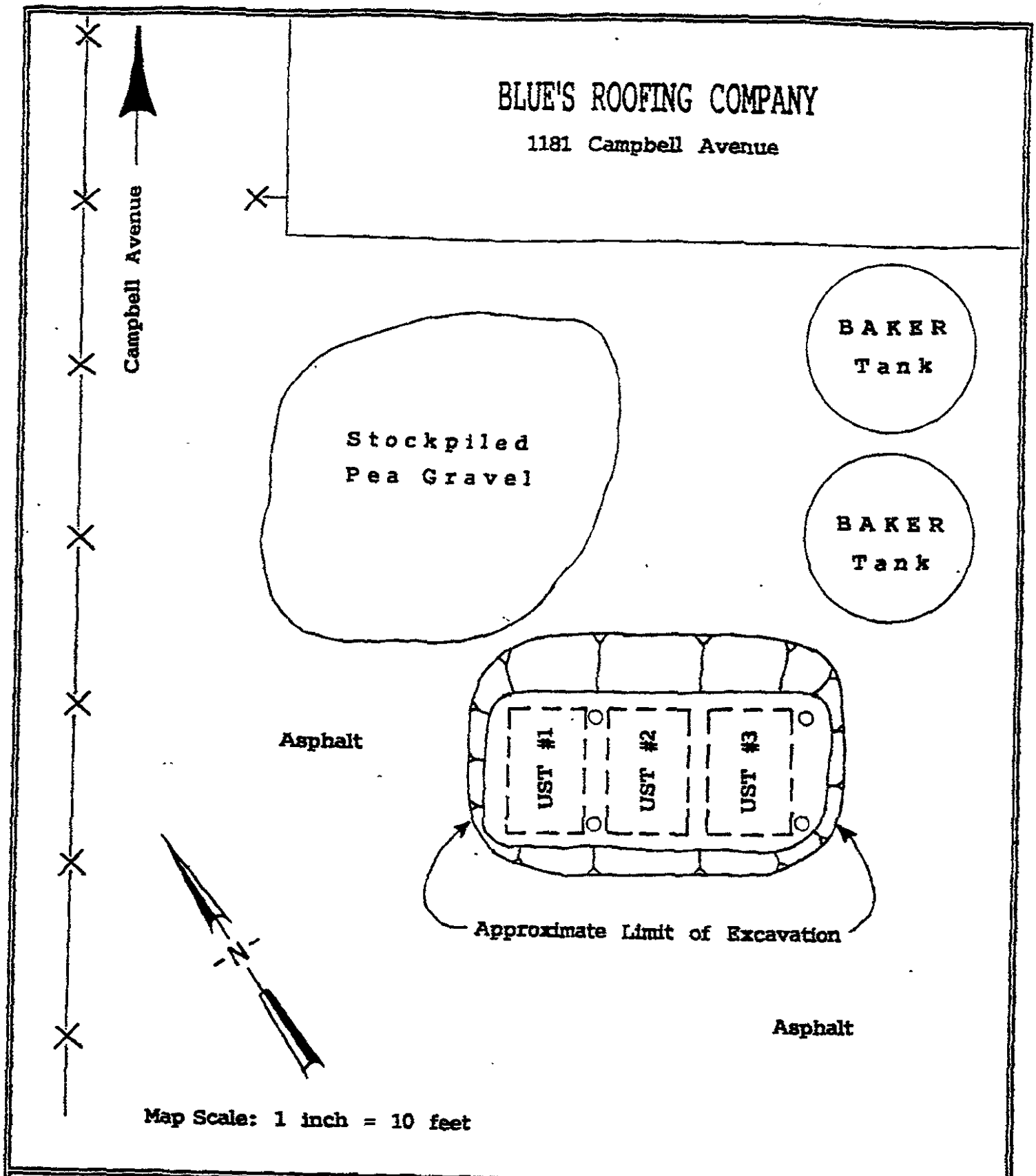
LEGEND

⊠ = Sidewall Soil Sample

⊕ = Former Vadose - Zone Monitoring Well

Map Scale: 1 inch = 5 feet

FULLER EXCAVATING & DEMOLITION, Inc.	LOCATION OF UST SOIL SAMPLES	FIGURE NO.
Project No. 5101	1181 Campbell Avenue San Jose, California	3



FULLER EXCAVATING & DEMOLITION, Inc.	GENERALIZED SITE PLAN 1181 Campbell Avenue San Jose, California	FIGURE NO.
Project No. 5101		2

TABLE 1
RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
FROM UST EXCAVATION AND STOCKPILES
Blue's Roofing Company
1181 Campbell Avenue
San Jose, California

Sample Identification	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
UST Excavation Soil Samples						
May 22, 1996						
S-5'-T1E	NA	<1.0	<0.005	<0.005	<0.005	0.014
S-5'-T1W	NA	3.1	<0.005	0.015	0.0074	0.036
S-5'-T2E	NA	1.2	<0.005	0.0085	0.0089	0.026
S-5'-T2W	NA	<1.0	<0.005	<0.005	<0.005	0.010
S-5'-T3E	<1.0	NA	NA	NA	NA	NA
S-5'-T3W	<1.0	NA	NA	NA	NA	NA
Stockpile Soil Samples						
May 22, 1996						
CS-#1(A,B,C,D)	13	1.0	<0.005	0.007	<0.005	0.015
May 24, 1996						
CS-#2(A,B,C,D)	32	26	0.0055	<0.005	0.0065	0.025
CS-#3(A,B,C,D)	25	2.1	<0.005	<0.005	<0.005	0.018
CS-#4(A,B,C,D)	19	<1.0	<0.005	<0.005	<0.005	0.011
CS-#5(A,B,C,D)	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005
CS-#6(A,B,C,D)	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005

Measurements are in parts per million (ppm).
TPHd: Total Petroleum Hydrocarbons as diesel analyzed by EPA Methods 3550 and modified 8015.
TPHg: Total Petroleum Hydrocarbons as gasoline analyzed by EPA Methods 5330 and modified 8015.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Methods 5030 and modified 8020.
NA: Not Analyzed.
<: Less than the laboratory detection limit = NonDetectable.

TABLE 2
RESULTS OF LABORATORY ANALYSIS OF
WATER SAMPLES FROM UST EXCAVATION
Blue's Roofing Company
1181 Campbell Avenue
San Jose, California

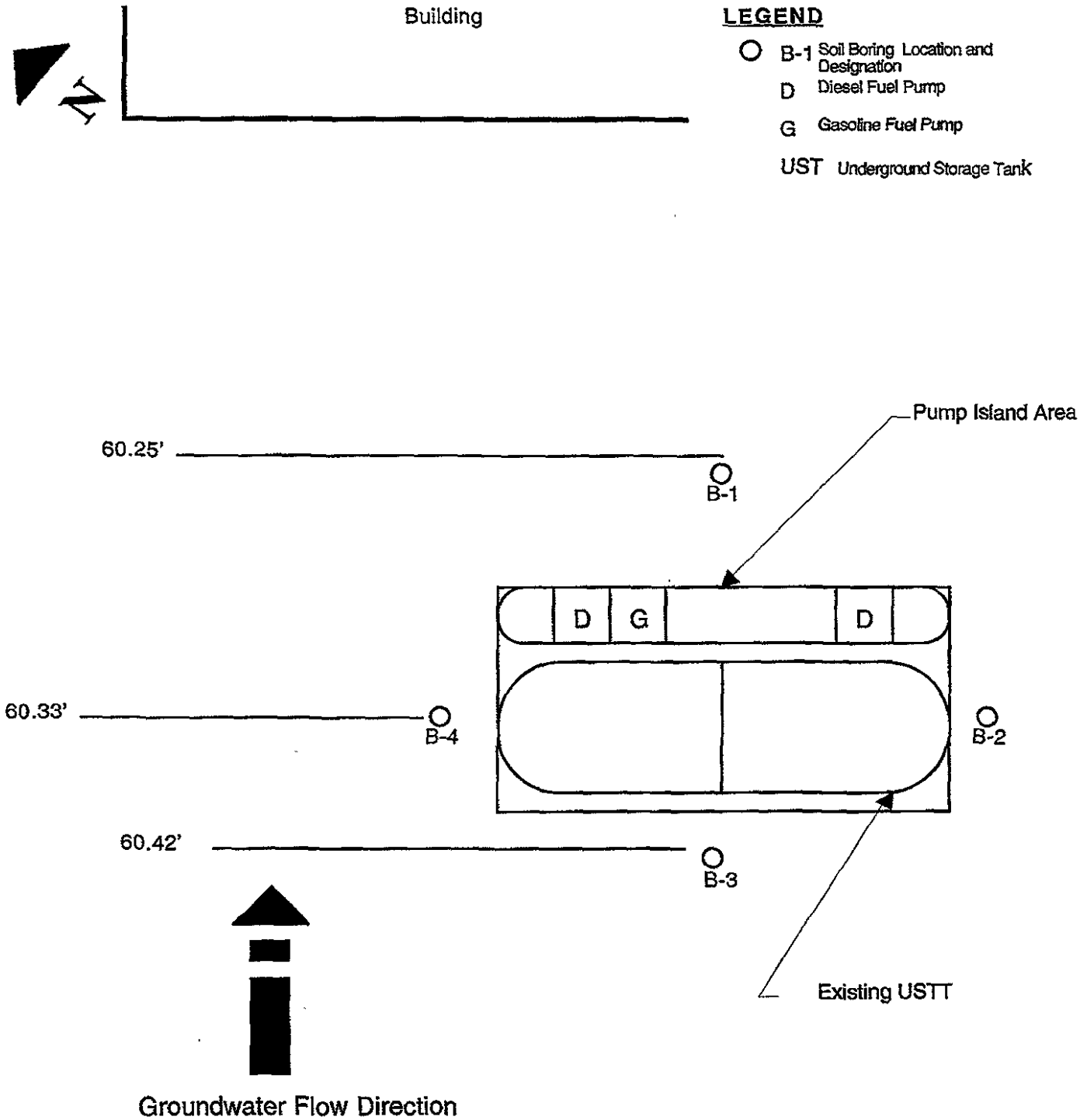
Sample Identification	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
UST Excavation Water Samples						
May 22, 1996						
W-5½'-Pit	1,700	7,900	6.4	21	8.3	52

Measurements are in parts per billion (ppb).

TPHd: Total Petroleum Hydrocarbons as diesel analyzed by EPA Methods 3550 and modified 8015.

TPHg: Total Petroleum Hydrocarbons as gasoline analyzed by EPA Methods 5330 and modified 8015.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Methods 5030 and modified 602.



Approximate Scale: 1" = 10'

SIERRA ENVIRONMENTAL, INC.
2084 Alameda Way, Suite 201, San Jose, CA 95126
Phone [408]248-3700 • Fax [408] 248-4700

Soil Boring Locations

Report for Preliminary Subsurface Assessment

1181 Campbell Ave • San Jose • CA

Figure 3

April 1999
Project 99-135.01

ATTACHMENT 4

TABLE I
ANALYTICAL RESULTS FOR SOIL SAMPLES

Sample ID	Sample Date	Sample Depth (ft)	TPHG[1] ppm[4]	TPHD[2] ppm	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylenes ppm	MTBE[3] ppm
B1-5	3-22-99	5	ND[5]	ND	ND	ND	ND	ND	ND
B1-10	3-22-99	10	ND	ND	ND	ND	ND	ND	ND
B2-5	3-22-99	5	ND	ND	ND	ND	ND	ND	ND
B2-10	3-22-99	10	ND	ND*	ND	ND	ND	ND	ND
B3-10	3-22-99	10	ND	ND	ND	ND	ND	ND	ND
B3-15	3-22-99	15	ND	ND**	ND	ND	ND	ND	ND
B4-5	3-22-99	5	ND	ND	ND	ND	ND	ND	ND
B4-10	3-22-99	10	ND	ND	ND	ND	ND	ND	ND

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. TPHD = Total Petroleum Hydrocarbons as Diesel
3. MTBE = Ethyl-tert Butyl Ether
4. ppm = Parts Per Million
5. ND = Below Laboratory Detection Limit

* = 11 ppm total petroleum hydrocarbons as heavy oil was detected in the sample

** = 24 ppm total petroleum hydrocarbons as heavy oil was detected in the sample

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Sample ID	Sample Date	Sample Depth (ft)	TPHG[1] ppb[5]	TPHD[2] ppm[6]	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb	FO[3] ppb	1,2-DCA[4] EDB ppb
B1	3-22-99	15	ND[7]	ND	2.1	0.8	ND	1.1	10*	ND
B2	3-22-99	15	ND	ND	ND	ND	ND	ND	ND	NA[8]
B3	3-22-99	15	66	ND	ND	ND	ND	ND	2.6*	ND
B4	3-22-99	15	ND	ND	2.1	1.0	ND	ND	14*	NA

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. TPHD = Total Petroleum Hydrocarbons as Diesel
3. FO = Fuel Oxygenates (Methyl tert-Butyl Ether, Ethyl-tert-Butyl Ether, Di-Isopropyl Ether, tert-Butyl Alcohol, tert-Amyl Methyl Ether)
4. 1,2-DCA = 1,2-Dichloroethane
   EDB = Ethyl Dibromide
5. ppb = Parts Per Billion
6. ppm = Parts Per Million
7. ND = Below Laboratory Detection Limit
8. NA = Not Analyzed
   * = Fuel Oxygenate as Methyl-tert Butyl Ether (MTBE)

TABLE I
ANALYTICAL RESULTS FOR SOIL SAMPLES

Sample ID	Sample Date	Sample Depth	Sample Location	TPHG[1] ppm[4]	TPHD[2] ppm	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylenes ppm	MTBE[3] ppm
MW1-5	10-19-00	5	MW1	ND[5]	ND	ND	ND	ND	ND	ND
MW1-10	10-19-00	10	MW1	ND	1.1	ND	ND	ND	ND	ND
MW1-15	10-19-00	15	MW1	ND	ND	ND	ND	ND	ND	ND
MW1-20	10-19-00	20	MW1	ND	ND	ND	ND	ND	ND	ND
MW2-5	10-19-00	5	MW2	ND	ND	ND	ND	ND	ND	ND
MW2-10	10-19-00	10	MW2	ND	ND	ND	ND	ND	ND	ND
MW2-15	10-19-00	15	MW2	ND	ND	ND	ND	ND	ND	ND
MW2-20	10-19-00	20	MW2	ND	ND	ND	ND	ND	ND	ND
MW3-5	10-19-00	5	MW3	ND	ND	ND	ND	ND	ND	ND
MW3-10	10-19-00	10	MW3	ND	ND	ND	ND	ND	ND	ND
MW3-15	10-19-00	15	MW3	ND	2.1	0.007	ND	ND	ND	ND
MW3-20	10-19-00	20	MW3	1.1	ND	0.008	ND	ND	ND	ND

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. TPHD = Total petroleum Hydrocarbons as Diesel
3. MTBE = *Methyl Tertiary Butyl Ether*
4. ppm = Parts Per Million
5. ND = Below Laboratory Detection Limit

ATTACHMENT 5

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Sample ID	Sample Date	Sample Location	TPHG[1] ppb	TPHD[2] ppb	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb	MTBE[3] ppb
MW-1	10-23-00	MW1	ND[5]	73	ND	ND	ND	ND	ND
MW-2	10-23-00	MW2	ND	120	ND	ND	ND	ND	26
MW-3	10-23-00	MW3	96	54	0.80	1.2	0.60	2.0	6.7

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. TPHD = Total Petroleum Hydrocarbons as Diesel
3. MTBE = The Sample was Analyzed for Fuel Oxygenates Using EPA Method 8260 B. Only Methyl Tertiary Butyl Ether (MTBE) was Detected in the Sample
4. ppb = Parts Per Billion
5. ND = Bellow Laboratory Detection Limit

TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Sample ID	Sample Date	Sample Location	TPHG[1] ppb[4]	TPHD[2] ppb	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb	MTBE[3] ppb
MW-1	10-23-00	MW1	ND[5]	73	ND	ND	ND	ND	ND
	03-14-01		ND	ND	ND	0.50	ND	ND	ND
	06-15-01		ND	ND	ND	ND	ND	ND	ND
MW-2	10-23-00	MW2	ND	120	ND	ND	ND	ND	26
	03-14-01		ND	67	ND	ND	ND	ND	23
	06-15-01		ND	110	ND	ND	ND	ND	23
MW-3	10-23-00	MW3	96	54	0.80	1.2	0.60	2.0	6.7
	03-14-01		ND	ND	ND	ND	ND	ND	ND
	06-15-01		ND	ND	ND	ND	ND	ND	ND

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
2. TPHD = Total Petroleum Hydrocarbons as Diesel
3. MTBE = The Sample was Analyzed for Fuel Oxygenates Using EPA Method 8260 B. Only Methyl Tertiary Butyl Ether (MTBE) was Detected in the Sample
4. ppb = Parts Per Billion
5. ND = Bellow Laboratory Detection Limit

Encanto Homeowner's Association
c/o Compass Management Group
77 Las Colinas Lane
San Jose, California 95119

March 4, 2015

Alex Lee
Hazardous Substances Scientist
Brownsfields and Environmental Restoration Program Department of Toxic Substances Control
700 Heinz Avenue
Berkeley, CA 94710

Subject: Encanto HOA Annual Compliance Letter – Tract 9749
Environmental Restriction for Campbell Avenue Property
San Jose, California

Dear Mr. Lee,

The purpose of this letter is to provide the Department of Toxic Substances Control (DTSC) with an annual compliance letter, as required by the Covenant to Restrict Use of Property Environmental Restriction (Environmental Restriction), recorded in Santa Clara County on April 24, 2007 (Document No. 19398107) for the Encanto subdivision Tract 9749 on Campbell Avenue in San Jose, California (the Property).

The Encanto Homeowners Association (HOA) owns the streets at the Property. The Environmental Restriction requires the HOA to report annually on compliance with environmental restrictions for work done in the streets in ***Restricted Areas 1 and 2*** at the Property. **Tab 1** (Exhibit "D" to the Environmental Restriction) is a map showing the streets in ***Restricted Areas 1 and 2***.

The following is a list of activities set out in Article IV of the Environmental Restriction. For the year 2014, commencing January and ending in December, the following occurred on the streets at the Property. **[*Check all that apply for the reported year. Use the left column if NO WORK was done in the streets in the restricted areas. Use the right column if work was done in the streets in the restricted areas.*]**

STREETS IN RESTRICTED AREA 1

No Work Done in Streets at Area 1	Work Done in Streets at Area 1
The HOA did **not** perform any of the following activities at a depth of 10 feet or more below ground surface: ☒ Excavation ☒ Grading ☒ Soil Removal ☒ Trenching ☒ Filling/ Backfilling ☒ Earth Movement ☒ Mining	The HOA performed the following activities at a depth of 10 feet or more below ground surface: ☐ Excavation ☐ Grading ☐ Soil Removal ☐ Trenching ☐ Filling ☐ Earth Movement ☐ Mining In accordance with the Environmental Restriction, the above activities were done after the HOA did **all** of the following: ☐ Implemented a DTSC-approved Soil Management Plan ☐ Implemented a DTSC-approved Health and Safety Plan ☐ Provided notice to the U.S. EPA and DTSC at least 14 days before commencement of any of the above activities. ☐ Any contaminated soil brought to the surface from a depth of 10 feet or more below ground surface was managed in accordance with state and federal law.

STREETS IN RESTRICTED AREA 2

No Work Done in Streets at Area 2	Work Done in Streets at Area 2
The HOA did **not** perform the following activities at a depth of 15 feet or more below ground surface: ☒ Excavation ☒ Grading ☒ Soil Removal ☒ Trenching ☒ Filling/ Backfilling ☒ Earth Movement ☒ Mining	The HOA performed the following activities at a depth of 15 feet or more below ground surface: ☐ Excavation ☐ Grading ☐ Soil Removal ☐ Trenching ☐ Filling ☐ Earth Movement ☐ Mining In accordance with the Environmental Restriction, the above activities were done after the HOA did **all** of the following: ☐ Implemented a DTSC-approved Soil Management Plan ☐ Implemented a DTSC-approved Health and Safety Plan ☐ Provided notice to the U.S. EPA and DTSC at least 14 days before the commencement of any of the above activities. ☐ Any contaminated soil brought to the surface from a depth of 15 feet or more below ground surface was managed in accordance with state and federal law.

The above information constitutes the HOA's annual compliance letter to DTSC, as required by the Environmental Restriction.

Sincerely,

Josh Bench
Compass Management Group
Telephone: (408) 226-3300

Department of Toxic Substances Control

Preventing environmental damage from hazardous waste, and restoring contaminated sites for all Californians.

State of California

California Environmental Protection Agency

Fact Sheet, October 2009

Cleanup Activities at the Former AJ Commercial Site 1173-1175 Campbell Avenue, San Jose

The Department of Toxic Substances Control (DTSC) is providing you this fact sheet to inform you about the cleanup activities that will be conducted at the Former AJ Commercial Site (Site) located at 1173-1175 Campbell Avenue, San Jose. This cleanup is being conducted by DTSC as an interim removal action. This removal action involves installation of a dual phase extraction treatment system. The purpose of the removal action is to cleanup the soil vapor contaminated with volatile organic compounds (VOCs) underneath building 3. Soil and groundwater contamination at the rest of the Site and outside the site will be addressed separately at a later date.

History and Background

The site consists of 2 parcels, containing one acre each (See figure). Building #3 where removal action will be conducted was occupied and operated by AJ Services (linen supply service and commercial laundry) from 1989 to 1994. Several businesses, including AJ services, occupied the two parcels from 1987 to 2003. The site is bordered by residential homes in all directions.

PUBLIC NOTICE

DTSC invites public comments on the cleanup activities for the former AJ Commercial Site. Written comments will be accepted during the 30-day public comment period which begins on November 3, 2009 and ends on December 4, 2009. At the end of the comment period, all comments will be considered and a Response to Comments document will be prepared.

DTSC encourages all interested parties to submit comments or ask questions. Please send your comments postmarked no later than 5:00 PM, December 4, 2009 to the address below or by email to ktoth@dtsc.ca.gov.

Karen Toth
DTSC- Unit Chief
700 Heinz Avenue
Berkeley, California 94710-2721

Remedial Investigation Findings and Cleanup Objectives

An Imminent & Substantial Endangerment Determination Order and Remedial Action Order was issued on

June 27, 2006. Since 2005, soil, soil gas and groundwater investigations have been conducted. The investigations indicate the presence of VOCs, primarily, perchloroehtylene (PCE) in all medium. An indoor air survey was conducted in the on-site buildings in March 2008, the highest PCE concentration was 240 micrograms per cubic meter (ug/m^3) which is significantly above the Commercial California Human Health Screening Levels (CHHSLs) of 0.693 (ug/m^3) which lead to the decision to conduct an expedited removal action

Dual Phase Extraction

Dual Phase Extraction removes the chemicals (VOCs) found in soil vapors and groundwater. Vapors are the gases that form when chemicals evaporate. Both vapors and groundwater are extracted (removed) from the ground by applying a vacuum to pull both media. Once the vapors and groundwater are out of the ground, special equipment collects and treats them. Granular activated carbon (GAC) is a material used to filter the chemicals from the vapors and liquid. This type of technology is called adsorption. As vapor flows through the GAC, chemicals adsorb or stick to the surface and within the pores of the carbon. Because activated carbon is very porous and has a large surface area it is an ideal adsorbent material. Most tap water filters and fish tank filters at home contain activated carbon and work the same way. When the available surface of the activated carbon fills up with chemicals, the carbon is said to be spent and needs to be replaced. Monitoring of the system will indicate when the GAC vessels need to be replaced. Air discharge from the treatment system will comply with emission standards specified in Bay Area Air Quality Management District (BAAQMD).

Summary of Cleanup Activities

An underground utility survey will be conducted at the Site to confirm the absence or presence of any utility lines. Five shallow soil vapor extraction wells will be installed beneath the concrete slab of the warehouse initially. An additional 8 soil vapor extraction wells (at depths between 5 to 7 feet) will be installed thereafter. Three existing groundwater monitoring wells MW-15, MW-16, and MW-17 (at depths of 22-30 feet below the ground surface) will be converted to dual-phase extraction wells.

Permits will be obtained from the Bay Area Air Quality Management District (BAAQMD) for the operation of the dual phase extraction system and from the Santa Clara County for the installation of wells. A California-state licensed construction contractor will conduct the field activities associated with the installation of the SVE system. Fieldwork will be conducted following the safety guidelines provided in a site-specific health and safety plan (SSHSP) prepared specifically for the project. The plan will comply with both state and federal regulations designed to protect the health and safety of onsite workers and the public.

The proposed cleanup activities are contained in a document called the Draft Interim Removal Action Plan (ERA) for the AJ Commercial Site.

Air Monitoring Activities

Air monitoring will consist of on-site and perimeter monitoring for VOCs. Air monitoring will be conducted to measure the concentrations of VOCs generated during excavation and hauling. If monitoring levels exceed the actions levels presented in the SSHSP, then additional engineering control measures, such as additional dust suppression with water and/or covering the exposed soil with plastic to limit exposure to the air, will be implemented.

California Environmental Quality Act (CEQA)

DTSC has prepared a Notice of Exemption (NOE) for this project as required by the CEQA. The NOE document states that the proposed cleanup plan will not have negative impact on the environment. The NOE is available for public review at the information repositories listed.

For More Information

Please contact any of the following individuals with any questions or concerns you may have about this project.

For questions regarding the cleanup activities, please contact Karen Toth, DTSC Unit Chief, at 510-540-3834 or by e-mail to ktoth@dtsc.ca.gov.

For questions regarding the public participation process, please contact Richard Perry, DTSC Public Participation Specialist, at 510-540-3910 or by e-mail to rperry@dtsc.ca.gov.

For questions from the media, please contact DTSC Public Information Officer, Claudia Loomis, at 916-255-6578, or by e-mail to cloomis@dtsc.ca.gov.

Information Repositories

The Draft Interim Removal Action Workplan (RAW), NOE and other related documents may be viewed at the following location:

DTSC File Room
700 Heinz Avenue
Berkeley, CA 94710
Please Call For Appointment:
510-540-3800

Rose Garden Branch Library
1580 Naglee Ave.
San José, CA 95126
408-808-3070

Anuncio

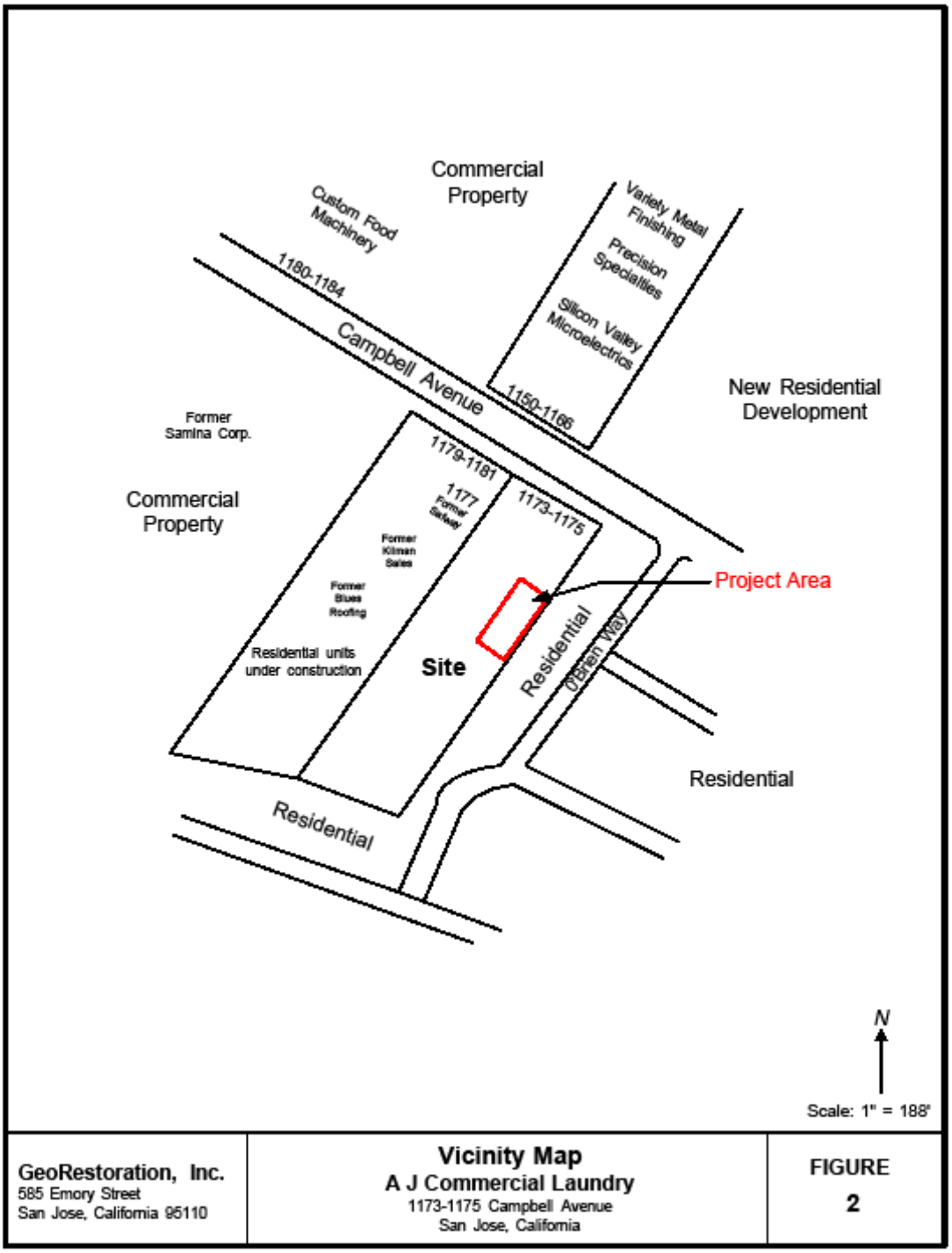
Si prefiere hablar con alguien en español acerca de ésta información, favor de llamar a Jacinto Soto, Departamento de Control de Substancias Tóxicas. El número de teléfono es 510-540-3842.

Notice to Hearing Impaired

TDD users can use the California Relay Service at 1-888-877-5378 and ask to speak with Richard Perry at 510-540-3910.

Envirostor link

To view electronic versions of the Draft RAW, visit DTSC's EnviroStor website: http://www.envirostor.dtsc.ca.gov/public/. Enter San Jose in the city section and select AJ Commercial from the alphabetical list of sites.


Commercial Property
Custom Food Machinery
Variety Metal Finishing
Precision Specialties
Silicon Valley Microelectrics
1180-1184
Campbell Avenue
1150-1166
New Residential Development
Former Samina Corp.
1179-1181
1177 Former Safeway
1173-1175
Commercial Property
Former Kilman Sales
Former Blues Roofing
Project Area
Residential units under construction
Site
Residential
O'Brien Way
Residential
Residential
N
Scale: 1" = 188'
GeoRestoration, Inc.
585 Emory Street
San Jose, California 95110
Vicinity Map
A J Commercial Laundry
1173-1175 Campbell Avenue
San Jose, California
FIGURE
2

Site Map

Letter of Transmittal

AECOM

TO: Adriana Constantinescu
San Francisco Bay
Regional Water Quality Control Board
1515 Clay Street, 14th Floor
Oakland, CA 94612

DATE: June 1, 2009
JOB ID NO. 101248.02
ATTENTION:
RE: *Newhall Yard*

WE ARE SENDING YOU:

X Attached
☐ Shop drawings
☐ Prints
☐ Change order
☐ Under separate cover via _____ the following items:
☐ Plans ☐ Samples ☐ Specifications
☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	March 2009	--	Remedial Action Completion Report for Former UPRR Newhall Yard (Final Version)

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval
X For your use
☐ As requested
☐ For review and comment
☐ For Bids Due_____ 20 _____
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☐ Returned for corrections
☐ _____
☐ Resubmit_____copies for approval
☐ Submit_____copies for distribution
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☐ Prints returned after loan to us

REMARKS Adriana, the enclosed document is being submitted on the behalf of the Santa Clara Valley Transportation Authority. Please let me (408-232-2893) or Mr. Wes Toy at VTA (408-321-5835) know if you have any comments or questions.

Thank you,
-Dan Ruslen

COPY TO: Wes Toy, VTA

SIGNED: _____

CALIFORNIA REGIONAL WATER
JUN 02 2009
QUALITY CONTROL BOARD

White Copy – Client Yellow Copy – Project File Pink Copy – Library File

If enclosures are not as noted, kindly notify us at once.

695 River Oaks Parkway • San Jose, California 95134 • Phone: (408) 232-2800 • Fax: (408) 232-2801

AECOM

REMEDIAL ACTION COMPLETION REPORT

For Former Union Pacific Railroad Newhall Yard
San Jose and Santa Clara, California

Prepared for:
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, CA 95134

Prepared by:
AECOM Technical Services, Inc.*
(formerly Earth Tech, Inc.)
695 River Oaks Parkway
San Jose, CA 95134

March 2009

Project No. 101248

** Earth Tech, Inc., an operating company of AECOM, has filed Articles of Amendment with the Secretary for the State of California to formally change its name to AECOM Technical Services, Inc.*

AECOM

AECOM
695 River Oaks Parkway, San Jose, CA 95134
T 408.232.2800 F 408.232.2801 www.aecom.com

CALIFORNIA REGIONAL WATER
JUN 02 2009
QUALITY CONTROL BOARD

March 6, 2009
Project No. 101248

Mr. Wes Toy, P.E.
Santa Clara Valley Transportation Authority
3331 North First Street
San Jose, California, 95134-1906

Subject: **Remedial Action Completion Report**
Former Union Pacific Railroad Newhall Yard
San Jose/Santa Clara, California

Dear Mr. Toy:

Earth Tech AECOM is pleased to present the attached *Remedial Action Completion Report* for the former Union Pacific Railroad Newhall Yard in San Jose and Santa Clara, California. This Completion Report summarizes the remediation activities performed during December 2007 to May 2008 in accordance with the *Remedial Action Plan* approved by the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) in July 2007.

If you have any questions or comments, please do not hesitate to call the undersigned at (408) 232-2800.

Sincerely,

Earth Tech AECOM

Dan Ruslen, P.E.
Project Manager

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1.0 INTRODUCTION

AECOM Technical Services, Inc. (formerly Earth Tech, Inc.) (AECOM) has prepared this Remedial Action Completion Report (Completion Report) on behalf of the Santa Clara Valley Transportation Authority (VTA) to summarize the remediation activities performed during December 2007 to May 2008 at the former Union Pacific Railroad (UPRR) Newhall Yard, San Jose, California (the site). This Completion Report presents the results of the implementation of the Remedial Action Plan (RAP), approved by the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) in July 2007.

1.1 Remedial Action Objectives

The objective of the remediation activities was to remove soil with contamination greater than the reuse screening criteria present in the Contaminant Management Plan (Earth Tech 2006) so that the site conditions meet the requirements of the planned future use, and those soil contaminants that may pose significant levels of risk to human health or the environment are removed from the site.

1.2 Report Organization

This Completion Report is organized as follows: Section 1 presents the objectives of the remedial action. Section 2 provides general site information and a summary of the site investigations performed. Section 3 presents a detailed description of the remedial activities. Sections 4 and 5 present an overview of soil disposal activity and excavation backfill activity, respectively. Section 6 discusses the implementation of the Health and Safety Plan (HASP). Section 7 provides the references for this document.

2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

VTA is currently designing the Silicon Valley Rapid Transit (SVRT) Project which includes plans for a new Bay Area Rapid Transit (BART) maintenance and storage facility that will be partially located in the site. The site is more than one mile in length, with the primary entrance located at 795 Newhall Street in San Jose, California. The site consists of approximately 47.75 acres of land that straddles the city limits of San Jose and Santa Clara, and is bounded on the north by Brokaw Road at 420 Brokaw Road. The property is roughly trapezoidal-shaped, tapering to main rail lines to the northwest near De La Cruz Boulevard, to the southeast near Interstate 880, and bounded on the eastern side by the former FMC facility.

The site formerly had numerous sets of rails on the western side. The rails and railroad ties were removed in June and July 2006, and two new sets of tracks were constructed within an easement retained by UPRR on the very western portion of the site.

The site formerly had seven primary buildings (Building 6455, 6457, 6458, 6459, 6469, 6470, and the building leased by Sprint, shown on Figures 2 and 3). With the exception of the Sprint facility, all buildings were demolished and removed in December 2007 prior to the site soil remediation activities. Additionally, there were four smaller structures (storage sheds and a scale house), some of which were labeled with building numbers, that were also removed during the demolition of the six aforementioned buildings.

2.2 Previous Site Investigations

Phase I and Phase II Environmental Site Assessments

A Phase I Environmental Site Assessment (ESA) was conducted in July and August 2002, and Phase II environmental investigations were conducted in December 2002 and June 2003. Lead was detected at a maximum concentration of 6,400 milligrams per kilogram (mg/kg) in the shallow soil samples collected from the surface to three feet below ground surface (bgs). Total petroleum hydrocarbons as motor oil (TPH-mo) was found in shallow soil samples up to a concentration of 25,000 mg/kg. Arsenic was detected in scattered soil samples at a maximum concentration of 57 mg/kg. Polycyclic aromatic hydrocarbons (PAHs) and relatively high levels of chromium were detected from a large stockpile on the site.

Hazardous Building Materials Survey

A Hazardous Building Materials Survey was conducted in June 2006 for the buildings in the site (Kleinfelder 2006).

Building 6455, Building 6457, Building 6459, and Building 6470 were identified as having building materials that contain greater than one-tenth of one percent (0.1 percent) asbestos. Building 6455 and Building 6459 were identified as having surfaces with "lead-based paint" (greater than 5,000 parts per million [ppm] lead), while Building 6470 was identified as having surfaces with "lead-containing paint" (greater than 600 ppm, but less than 5,000 ppm).

Other miscellaneous hazardous materials/wastes identified during the survey included, but were not limited to, fluorescent light tubes/fixtures, mercury containing thermostats, batteries, and air conditioning units potentially containing chlorofluorocarbons (CFCs). The potential existence of an underground storage tank was also identified at Building 6455 due to disconnected pipes protruding from below the building. However, it was later confirmed by an underground utility survey that an underground storage tank was not present below the building.

Hot Spot Characterization

Based on the results of Phase II investigations, several locations were identified as hot spots warranting further characterization. These areas included four previous sampling locations (SB4, SS8, SS17, SS20) where lead concentrations exceeded 646 mg/kg in shallow soil samples, three previous sampling locations (SB2, SS9, SS11) where TPH-mo concentrations exceeded 1,000 mg/kg in shallow soil samples, and six previous sampling locations (SB1, SB2, SS3, SB3, SS5, and SS7) where arsenic concentrations exceeded the 16 mg/kg. One prior location (SS1) was also selected for further characterization due to a lead concentration of 640 mg/kg in a soil sample.

The characterization of these hot spots was conducted in two phases:

- In September and October 2006, AECOM conducted soil sampling to delineate the extent of soil containing TPH-mo and lead at the previous identified hot spots locations (SS1, SB2, SB4, SS8, SS9, SS11, and SS20); and
- In February through April 2007, AECOM conducted soil sampling to delineate the extent of soil containing arsenic at the previous identified hot spots locations (SB1, SB2, SS3, SB3, SS5, and SS7) and at five additional locations (DS1 through DS5) between and in-line with the previous identified hot spots locations.

The results were summarized in the *Draft Hot Spot Characterization Report,* submitted to VTA in June 2007.

Additional Arsenic Characterization

Hot spot characterization had shown that elevated concentrations of arsenic are present at several locations throughout the site. To more accurately delineate the lateral and vertical extent of arsenic criteria based on future site use, additional characterization was performed from August 21 to August 24, 2007 within the site by addressing potential data gaps. A total of 183 soil samples were collected and analyzed for arsenic. The results were summarized in the *Draft Additional Characterization Report*, submitted to VTA in December 2007.

Hazardous Material Survey for Additional Buildings

Four additional smaller structures were identified to be demolished: a small-scale house approximately 100 square feet (sf) in size, two storage structures approximately 300 sf each, and a storage-type structure less than 500 sf. AECOM subcontractor SCA Environmental, Inc. conducted a hazardous building materials survey on these additional buildings in August 2007 (SCA Environmental 2007). Based on the survey, asbestos (greater than 0.1 percent) was found in the building tiles. Additionally, building surfaces were sampled for lead paint, and most paints were found to contain some lead. Areas of loose and peeling paint were observed throughout the buildings/structures.

2.3 Remedial Action Plan

Based on the investigation data collected through April 2007, AECOM prepared and submitted the *Remedial Action Plan for Former UPRR Newhall Yard (RAP)* in June 2007 (Earth Tech 2007). The soil characterization data indicated there were areas of impacted soil that would not meet the soil reuse criteria present in CMP for Stations and Facilities if disturbed during construction activities, and would either require encapsulation to meet the reuse criteria of Encapsulation or would require off-site disposal at an appropriate disposal facility. Because the design for the site could change and alter planned construction, VTA intended to remove impacted soil having the potential to adversely affect the final design and/or construction.

Fourteen areas, including areas previously noted as 'hot spots' (see Section 2.2), were identified in the RAP for planned soil excavation and off-site disposal. These included areas where TPH-mo concentrations exceeded 1,000 mg/kg in shallow soil, areas where lead concentrations exceeded 640 mg/kg in shallow soil, and areas where existing data indicated that arsenic concentrations exceeded 16 mg/kg. With the implementation of proper air monitoring and engineering controls, these areas were going to be excavated and the soil temporarily stockpiled on-site and tested for

proper disposal, with the excavations subsequently backfilled with clean import fill. The soil was then to be shipped to an appropriate disposal facility for off-site disposal.

Additionally, VTA intended to demolish the on-site buildings and structures. In the RAP, those buildings found to contain asbestos-containing materials, lead-based paint, and/or any other hazardous building materials were identified, and it was noted that they would be properly abated prior to demolition.

3.0 SITE REMEDIATION

VTA contracted with Pacific States Environmental Contractors, Inc. (PSEC), a California-licensed contractor with a hazardous substances removal certification, for the excavation and removal of the impacted soil and abatement and demolition of the buildings as indicated in the RAP. Following the Notice to Proceed by VTA in August 2007, PSEC prepared and submitted preliminary documents, such as a Site-specific Health and Safety Plan, Hazardous Materials Management Plan, and project schedule to VTA. In December 2007, PSEC commenced abatement and subsequent demolition of the onsite buildings. From January 2008 through April 2008, PSEC excavated the 14 areas designated in the RAP, temporarily stockpiled the soil onsite, and brought in clean backfill material. In May 2008, under a separate contract with VTA, PSEC removed and loaded the excavated soil on trucks, and shipped the soil off-site for proper disposal. Details of the remedial activities are provided in the following sections.

3.1 Permitting

Hazardous building materials abatement and building demolition were conducted prior to the soil remediation activities. The Bay Area Air Quality Management District (BAAQMD) regulates the demolition of buildings and structures which may contain asbestos (BAAQMD Regulation 11, Rule 2). Prior to commencement of the abatement, notifications were made to the BAAQMD Compliance Enforcement Division in November 2007. Copies of the Notification Forms are presented in Appendix A.

3.2 Building Demolition

Buildings were demolished and removed in December 2007 prior to the site soil remediation activities, including:

- Two office buildings (Building 6455 and Building 6457) at the former yard offices at Newhall Street;
- A small portable building (Building 6458) mounted on a skid adjacent to the former office buildings at Newhall Street;
- A small wood building (Building 6459) near the former offices;
- Two sheet metal structures (Building 6469 and Building 6470) within a fenced area at the end of Brokaw Road; and
- Four additional small structures (a small-scale house and three small storage structures).

The building demolition included abatement of the hazardous building materials identified in the Hazardous Building Material Survey Reports prepared by Kleinfelder and SCA Environmental.

Prior to commencement of the abatement, a Hazardous Material Management Plan was prepared by the contractor, and reviewed and approved by VTA. The hazardous building materials/waste were handled and disposed of in accordance with the applicable laws and regulations to that materials/waste.

3.3 Soil Excavation

Soil within the 14 areas identified in RAP was excavated between January 2008 and April 2008, with breaks due to periods of inclement weather. Excavation locations with the estimated soil quantities are shown in Figures 2 and 3. Site photographs of the excavation work are presented in Appendix B. The excavation size, excavated soil volume, and observations during each excavation were recorded in AECOM Soil Excavation Daily Field Logs (Appendix C) and are summarized as following:

Location	Soil Reuse Concern	Excavation Area (sq ft)	Depth (ft)	Bank Volume (cy)	Bulk Volume (cy)
Excavation 1 (SS1 area)	Lead	470	1	18	22
Excavation 2 (SS17 and SB4 areas)	Lead TPH-mo	4,348	1	161	198
Excavation 3 (SS11 area)	Lead TPH-mo	400	1	15	19
Excavation 4 (SB1 area)	Arsenic TPH-mo	3,321	3	369	461
Excavation 5 (SB2 area)	TPH-mo	5,532	1	205	256
Excavation 6 (SS3 area)	Arsenic	5,400	3	600	746
Excavation 7 (SB3 and SS5 areas)	Arsenic	19,500	3	2,167	2,699
Excavation 8 (SS20 area)	Lead	2,500	1	93	117
Excavation 9 (SS7 area)	Arsenic	4,050	3	450	564
Excavation 10 (DS4 area)	Arsenic	11,200	3	1,245	1,550
Excavation 11 (DS5 area)	Arsenic	22,500	6	5,000	6,261
Excavation 12 (SS8 area)	Lead TPH-mo	2,500	2	186	231
Excavation 13 (SS9 area)	TPH-mo	2,500	2	186	232
Excavation 14 (SS10 area)	Chromium PAHs	6,000	1	223	278
TOTAL:					**13,634**

Notes:
A soil expansion factor of 1.25 was assumed to estimate the volume (bulk volume of stockpiled soil). Bank volume is the volume of soil in-place prior to excavation (based on the dimensions of the planned excavation).
sq ft = square feet

3.4 Soil Disposal

Excavated soils from the excavations were separately stockpiled and temporarily stored on-site for individual sampling for disposal characterization. The characterization analytical results are presented in Appendix D. Based on the sampling results, three classifications (non-hazardous, non-RCRA hazardous [state hazardous], and RCRA hazardous) of excavated soils were profiled.

Stockpiles were loaded onto 24-ton end dump trucks and transported to the Class I disposal facility (Chemical Waste Management, Inc, in Kettleman Hill, California) and the Class II disposal facility (Altamont Landfill in Livermore, California) in May 2008. Plastic sheeting was used during loading activities to contain any soils spilled. Observations during the soil loading and hauling off-site were recorded in the AECOM Daily Field Report presented in Appendix C. The waste disposal documentations, including profiles, manifests, bill of lading, and shipping/tracking documents, are presented in Appendix E.

A summary of the disposal information is as following:

Soil Classification	Profile #	Disposal Facility	No. of Load (24-Ton End Dump)	Tonnage
Non-Hazardous Waste	55484400	Altamont Landfill	516	11,623
Non-RCRA Hazardous Waste	CA298574	Kettleman Hill	261	6484
RCRA Hazardous Waste	CA298569	Kettleman Hill	26	622

4.0 BACKFILL / GRADING

Environmental (chemical analyses) and geotechnical testing results for potential backfill sources were submitted by PSEC for review for suitability. Backfill materials were reviewed to determine if they would meet classification as 'clean fill' based on the RAP and CMP for the project. Additionally, in a letter dated April 21, 2008 (RWQCB 2008), RWQCB provided approval on an addendum to the RAP, which provided an analysis that site-specific background arsenic appeared to be 13 mg/kg for soil, likewise increasing the allowable criteria for backfill material to an arsenic limit of 13 mg/kg.

Clean backfill material was obtained from three sources:

- Santa Clara Convention Center, from a ballroom expansion project;
- Redberry Ridge at Portola Valley, which was new home construction site; and
- 344 Tully Road in San Jose, which was a planned residential development site.

The chemical analytical report and geotechnical testing result from each source are presented in Appendix F.

Backfill and compaction activities were conducted in May 2008 in accordance with the RAP. Site photographs of the backfill and compaction work are presented in Appendix B. Compaction testing was performed after the work to verify it meets the compaction requirements. The compaction testing results are presented in Appendix G.

5.0 FINAL SURVEY

Following excavation activities, F3 & Associates, Inc., a licensed land surveyor, surveyed the boundaries of the excavation areas to provide 'As-Built' data for the remediation activities. The as-built survey data for the excavations is provided in Appendix H.

6.0 HEALTH AND SAFETY PLAN IMPLEMENTATION

Soil remediation activities described in this report were conducted in accordance with the Health and Safety Plan in the RAP. An air monitoring program consisting of real-time particulate monitoring was implemented during the construction to protect the health of construction workers and the public. The air monitoring program field logs are presented in Appendix I.

7.0 REFERENCES

Earth Tech, Inc. *Contaminant Management Plan, Silicon Valley Rapid Transit Corridor*. March 2006.

_____. *Remedial Action Plan, Former UPRR Newhall Yard, San Jose/Santa Clara, California*. June 2007.

_____. *Draft Hot Spot Characterization Report,, Former UPRR Newhall Yard, San Jose/Santa Clara, California*. June 2007.

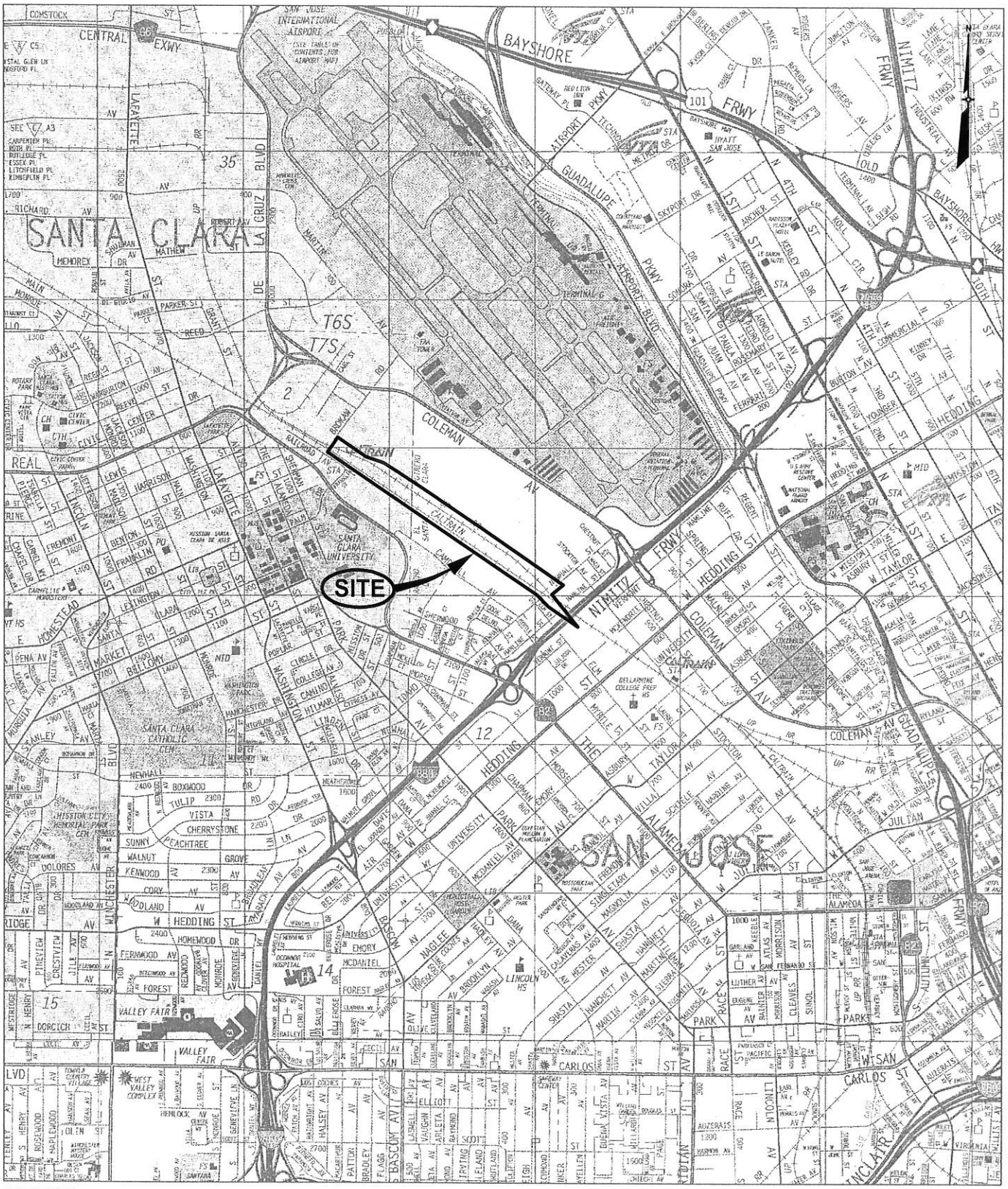
_____. *Draft Additional Characterization Report, Former UPRR Newhall Yard, San Jose/Santa Clara, California*. December 2007.

California Regional Water Quality Control Board, San Francisco Bay Region. *Approval of Remedial Action Plan Addendum for Former UPRR Newhall Yard Segment, San Jose and Santa Clara, Santa Clara County*. April 21, 2008.

Kleinfelder, Inc. *Hazardous Building Materials Survey Report, Union Pacific Property, 795 Newhall Street, San Jose and 420 Brokaw Road, Santa Clara, California*. July 11, 2006.

SCA Environmental, Inc. *Asbestos Abatement and Lead Stabilization Work Plan, 795 Newhall Street, San Jose, CA*. September 10, 2007

FIGURES



BASE FROM
THOMAS BROS. MAPS, 1998

0 0.5 miles
SCALE

SANTA CLARA Valley Transportation Authority

AECOM

Figure 1
Site Location Map

Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009

101248

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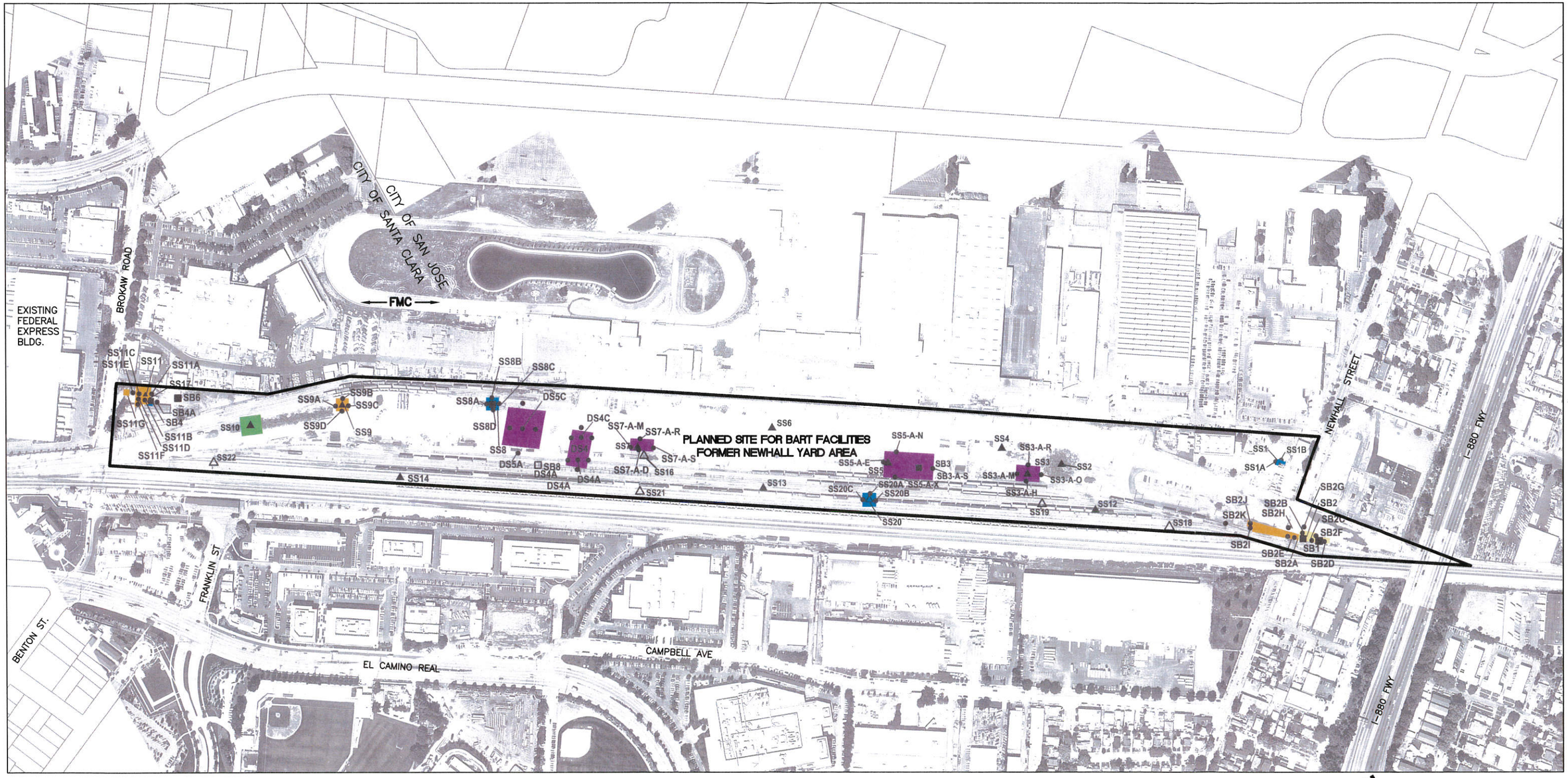

LEGEND

- APPROXIMATE EXTENT OF THE SITE
- JUNE 2003 DEEP DPT BORING
- JUNE 2003 SHALLOW HAND AUGER BORING
- DECEMBER 2002 DEEP DPT BORING
- DECEMBER 2002 SHALLOW HAND AUGER BORING
- 2006-2007 SHALLOW HAND AUGER BORING

- LEAD ≥640 MG/KG IN SHALLOW SOIL
- TPH-MO >1,000 MG/KG IN SHALLOW SOIL
- CHROMIUM AT 2,400 MG/KG IN COMPOSITE SAMPLE FROM VISUALLY IMPACTED (GREEN) SOIL
- ARSENIC >16 MG/KG IN SHALLOW SOIL
- TPH-MO > 1,000 MG/KG AND ARSENIC >16 MG/KG IN SHALLOW SOIL

N

0 250 500
SCALE IN FEET

NOTE:
THE AREAS SHOWN WERE IDENTIFIED AS HAVING IMPACTED SHALLOW SOIL EXCEEDING SCREENING CRITERIA PRESENTED IN THE CONTAMINANT MANAGEMENT PLAN (MARCH 2006) AND IDENTIFIED FOR REMOVAL IN THE REMEDIAL ACTION PLAN FOR FORMER NEWHALL YARD (JUNE 2007).

SANTA CLARA Valley Transportation Authority

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Figure 2
Areas of Soil Removed
Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009 101248

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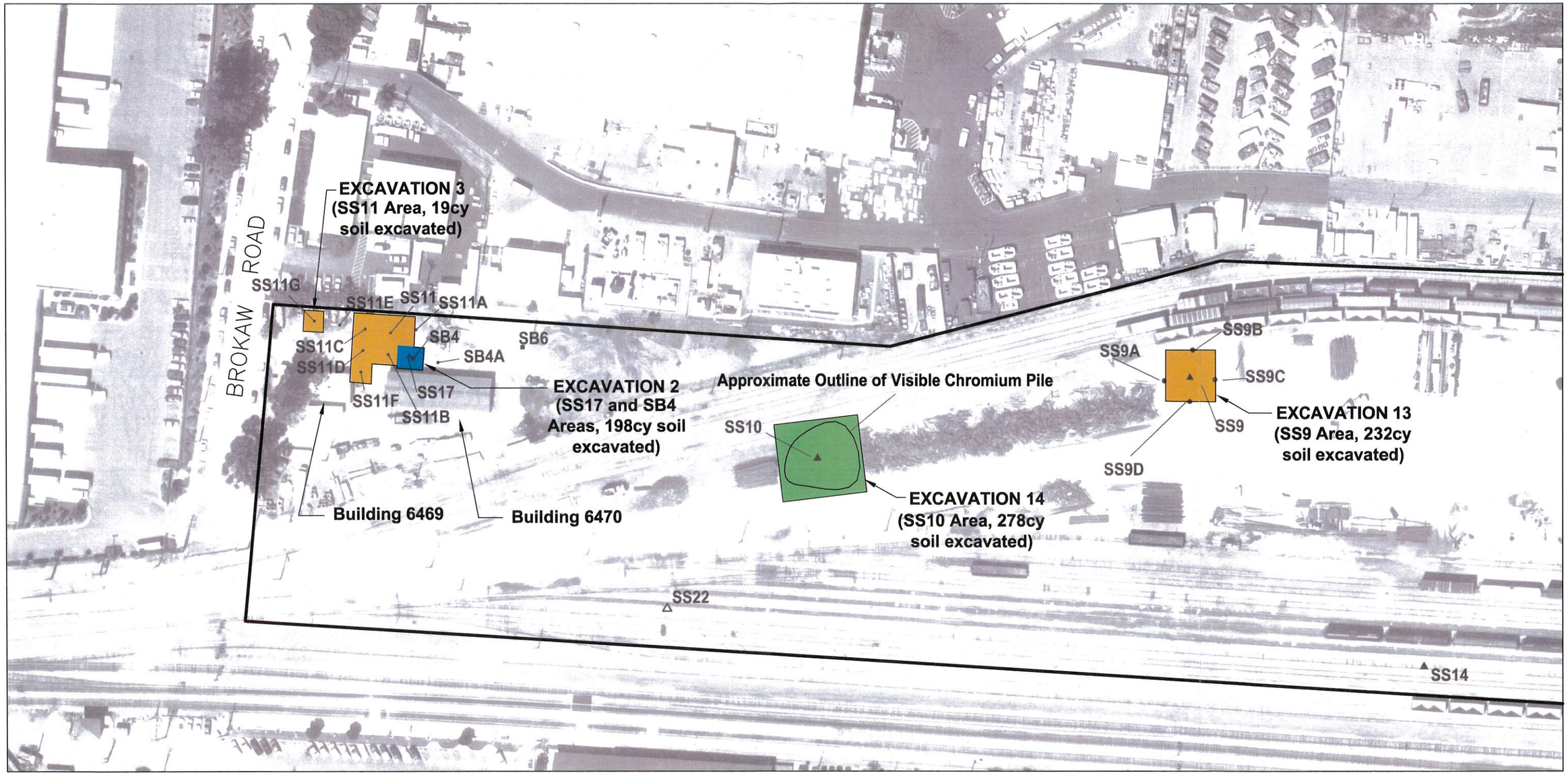

LEGEND

- APPROXIMATE EXTENT OF THE SITE
- JUNE 2003 SHALLOW HAND AUGER BORING
- DECEMBER 2002 DEEP DPT BORING
- DECEMBER 2002 SHALLOW HAND AUGER BORING
- SEPTEMBER/OCTOBER 2006 SHALLOW HAND AUGER BORING
- LIMITS OF EXCAVATION

- LEAD ≥640 MG/KG IN SHALLOW SOIL
- TPH-M0 >1,000 MG/KG IN SHALLOW SOIL
- CHROMIUM AT 2,400 MG/KG IN COMPOSITE SAMPLE FROM VISUALLY IMPACTED (GREEN) SOIL

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SCALE IN FEET

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SANTA CLARA Valley Transportation Authority

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Figure 3a
Areas of Soil Removed
Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009

101248

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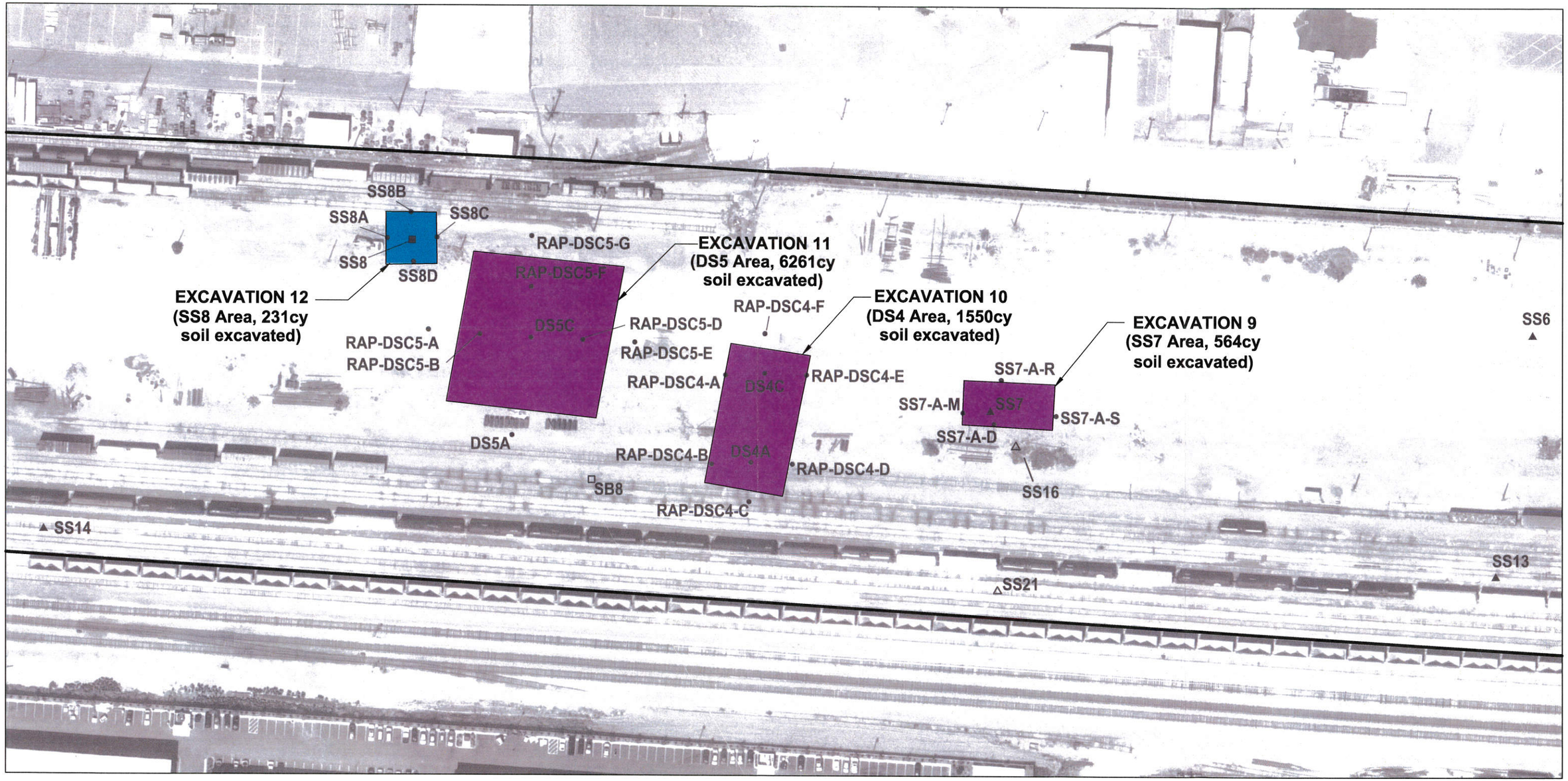

LEGEND

- APPROXIMATE EXTENT OF THE SITE
- JUNE 2003 DEEP DPT BORING
- JUNE 2003 SHALLOW HAND AUGER BORING
- DECEMBER 2002 DEEP DPT BORING
- DECEMBER 2002 SHALLOW HAND AUGER BORING
- 2006-2007 SHALLOW BORING
- LIMITS OF EXCAVATION
- LEAD ≥640 MG/KG IN SHALLOW SOIL
- ARSENIC >16 MG/KG IN SHALLOW SOIL

N

0 100 200

SCALE IN FEET

NOTE:
THE AREAS SHOWN WERE IDENTIFIED AS HAVING IMPACTED SHALLOW SOIL EXCEEDING SCREENING CRITERIA PRESENTED IN THE CONTAMINANT MANAGEMENT PLAN (MARCH 2006) AND IDENTIFIED FOR REMOVAL IN THE REMEDIAL ACTION PLAN FOR FORMER NEWHALL YARD (JUNE 2007).

SANTA CLARA Valley Transportation Authority

AECOM

Figure 3b
Areas of Soil Removed
Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009

101248

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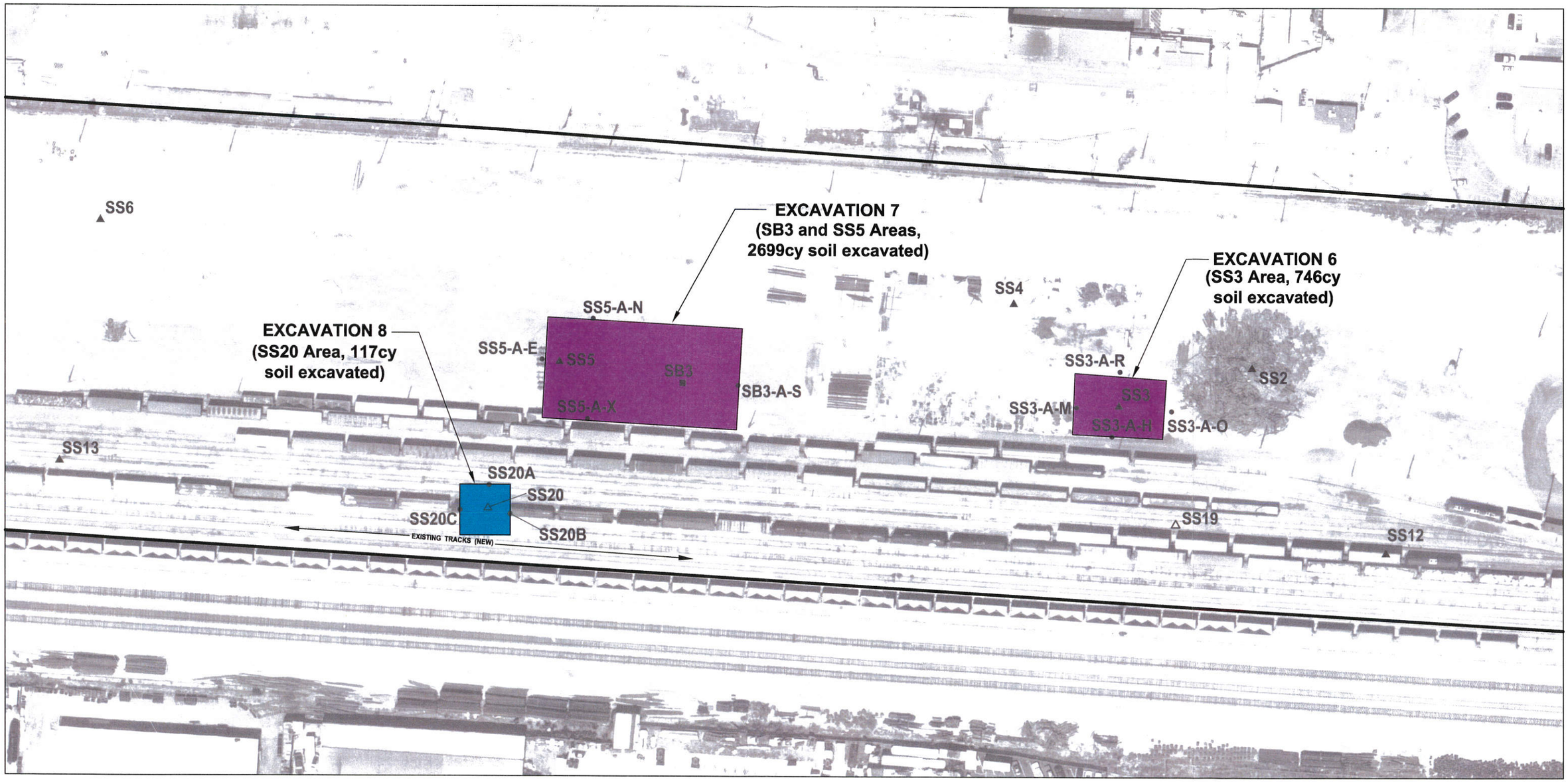

LEGEND

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- JUNE 2003 SHALLOW HAND AUGER BORING
- DECEMBER 2002 DEEP DPT BORING
- DECEMBER 2002 SHALLOW HAND AUGER BORING
- 2006-2007 SHALLOW HAND AUGER BORING
- LIMITS OF EXCAVATION
- LEAD ≥640 MG/KG IN SHALLOW SOIL
- ARSENIC >16 MG/KG IN SHALLOW SOIL

N

0 100 200

SCALE IN FEET

NOTE:
THE AREAS SHOWN WERE IDENTIFIED AS HAVING IMPACTED SHALLOW SOIL EXCEEDING SCREENING CRITERIA PRESENTED IN THE CONTAMINANT MANAGEMENT PLAN (MARCH 2006) AND IDENTIFIED FOR REMOVAL IN THE REMEDIAL ACTION PLAN FOR FORMER NEWHALL YARD (JUNE 2007).

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Figure 3c
Areas of Soil Removed

Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009

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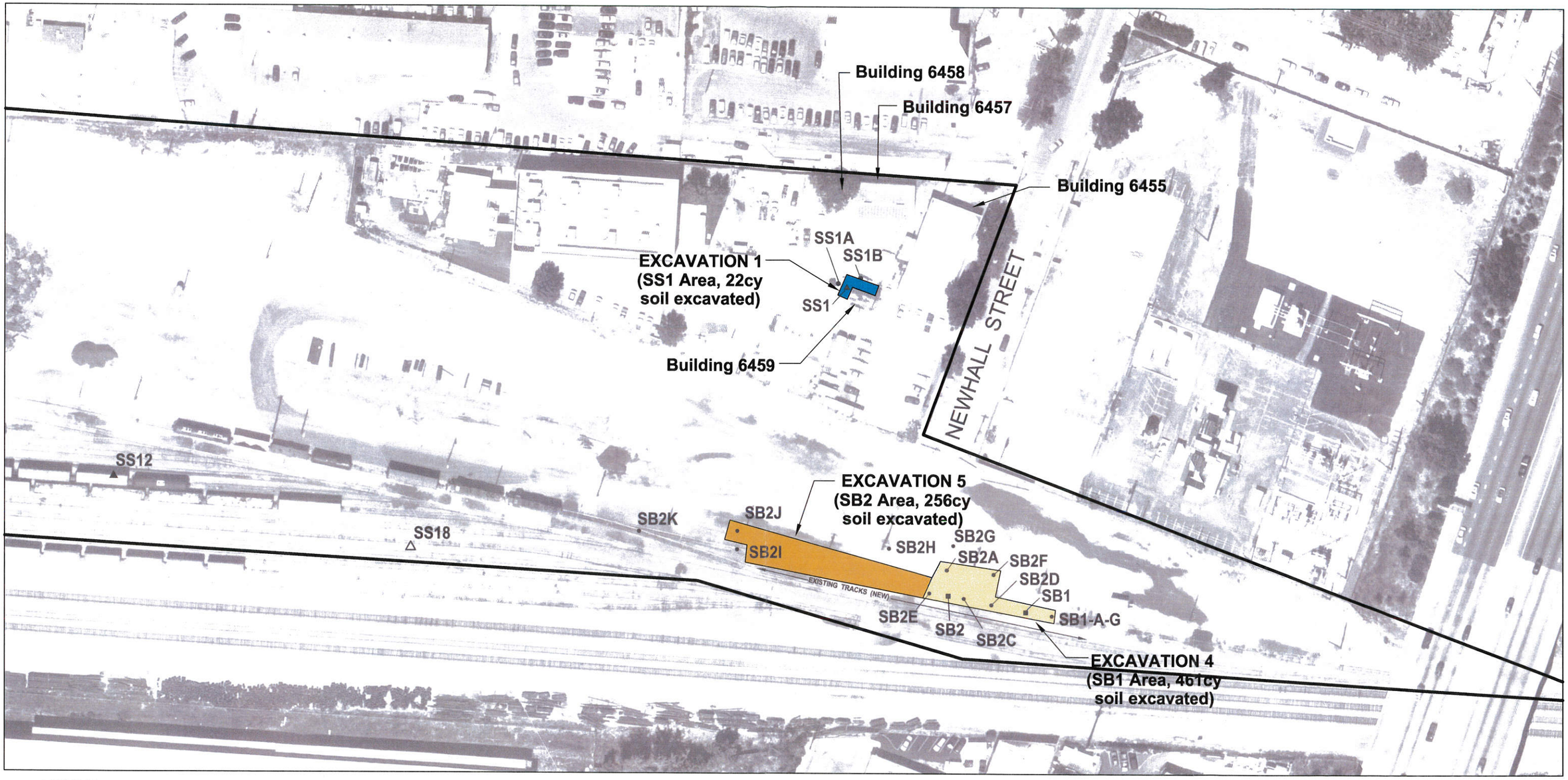

LEGEND

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- JUNE 2003 DEEP DPT BORING
- JUNE 2003 SHALLOW HAND AUGER BORING
- DECEMBER 2002 DEEP DPT BORING
- DECEMBER 2002 SHALLOW HAND AUGER BORING
- SEPTEMBER/OCTOBER 2006 SHALLOW HAND AUGER BORING
- LIMITS OF EXCAVATION
- LEAD ≥640 MG/KG IN SHALLOW SOIL
- TPH-MO >1,000 MG/KG IN SHALLOW SOIL
- TPH-MO >1,000 MG/KG AND ARSENIC > 16 MG/KG IN SHALLOW SOIL

N

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SCALE IN FEET

NOTE:
THE AREAS SHOWN WERE IDENTIFIED AS HAVING IMPACTED SHALLOW SOIL EXCEEDING SCREENING CRITERIA PRESENTED IN THE CONTAMINANT MANAGEMENT PLAN (MARCH 2006) AND IDENTIFIED FOR REMOVAL IN THE REMEDIAL ACTION PLAN FOR FORMER NEWHALL YARD (JUNE 2007).

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Figure 3d
Areas of Soil Removed
Remedial Action Completion Report
Former UPRR Newhall Yard
Santa Clara/San Jose, California

March 2009

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Appendix A

BAAQMD NOTIFICATION FORM

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	COMPLIANCE & ENFORCEMENT DIVISION	*Regulation 11, Rule 2*
		Acknowledgement of Notification and Payment of Fees

PACIFIC STATES
DEC 03 2007
RECEIVED

11/30/2007

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

Job No: **2X067**
Invoice No: **1VH30**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 420 Brokaw Road, bldg 6469
Santa Clara, CA 95050

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately copy the District by fax or by mail.

REGULATION 11-2 REVISION	BAAQMD J# **2X067**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
4	___/___/___	___/___/___
5	___/___/___	___/___/___

NOTE: *This form is not intended as a verification of either the completeness of your original notification or of its compliance with BAAQMD Regulation 11-2. If you have any questions about this acknowledgment, please call our office at (415) 749-4762.*

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

A REMINDER

If there are any changes to any aspect of the notification submitted, including the starting or completion dates, amounts of RACM removed, changes in contractor or waste disposal site, you must inform the District per Section 401.5.

401.5 **Schedule Changes and Up-dates:** Any changes to any aspect of a notification submitted in accordance with Section 11-2-401.3 must be reported to the APCO. These changes shall include, but are not limited to, changes in the notified starting or completion dates, changes of amounts of RACM to be removed, and changes of contractor or waste disposal site. It shall be the responsibility of the person making the initial notification of intent to remove asbestos or perform demolition activity to ensure that the APCO is notified of any such changes. If a job starts prior to the reported starting date or continues past the completion date as shown in the notification of intent to remove asbestos or to demolish, this shall constitute a failure to notify. Failure to notify the APCO of a job cancellation or postponement will result in the imposition of such asbestos operations fees as would have been due had the job not been cancelled or postponed.

Revisions to the information stated in the notification form must be made in writing using the Acknowledgement Letter form.

939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	COMPLIANCE & ENFORCEMENT DIVISION	*Regulation 11, Rule 2*
		Acknowledgement of Notification and Payment of Fees

11/30/2007

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

PACIFIC STATES
DEC 03 2007
RECEIVED

Job No: **2X068**
Invoice No: **1VH32**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 420 Brokaw Road, bldg 6470
Santa Clara, CA 95050

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

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REGULATION 11-2 REVISION	BAAQMD J# **2X068**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
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5	___/___/___	___/___/___

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	COMPLIANCE & ENFORCEMENT DIVISION	*Regulation 11, Rule 2*
		Acknowledgement of Notification and Payment of Fees

PACIFIC STATES
DEC 0 3 2007
RECEIVED

11/30/2007

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

Job No: **2X069**
Invoice No: **1VH33**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 795 Newhall Street, bldg 6457
San Jose, CA 95110

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately copy the District by fax or by mail.

REGULATION 11-2 REVISION	BAAQMD J# **2X069**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
4	___/___/___	___/___/___
5	___/___/___	___/___/___

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	COMPLIANCE & ENFORCEMENT DIVISION	*Regulation 11, Rule 2*
		Acknowledgement of Notification and Payment of Fees

11/30/2007

PACIFIC STATES
DEC 03 2007
RECEIVED

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

Job No: **2X070**
Invoice No: **1VH34**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 795 Newhall Street, bldg 6455
San Jose, CA 95110

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately copy the District by fax or by mail

REGULATION 11-2 REVISION	BAAQMD J# **2X070**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
4	___/___/___	___/___/___
5	___/___/___	___/___/___

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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Regulation 11, Rule 2

Acknowledgement of Notification and Payment of Fees

11/30/2007

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

PACIFIC STATES
DEC 0 3 2007
RECEIVED

Job No: **2X071**
Invoice No: **1VH35**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 795 Newhall Street, bldg 6458
San Jose, CA 95110

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

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REGULATION 11-2 REVISION	BAAQMD J# **2X071**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
4	___/___/___	___/___/___
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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

BAY AREA AIR QUALITY MANAGEMENT DISTRICT	COMPLIANCE & ENFORCEMENT DIVISION	*Regulation 11, Rule 2*
		Acknowledgement of Notification and Payment of Fees

11/30/2007

Pacific States Environmental Contractors
11555 Dublin Blvd
Dublin, CA 94568

Job No: **2X072**
Invoice No: **1VH36**

The Bay Area Air Quality Management District (BAAQMD) acknowledges receipt of your payment and your Asbestos Removal or Demolition Plan described as: **Demolition**

Site address 795 Newhall Street, bldg 6459
San Jose, CA 95110

PACIFIC STATES
DEC 03 2007
RECEIVED

Start Date December 12, 2007
Completion Date December 26, 2007

Removal amounts of friable ACM 0 linear feet 0 square feet 0 cubic feet

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately copy the District by fax or by mail.

REGULATION 11-2 REVISION	BAAQMD J# **2X072**

REVISION #	START DATE	COMPLETION DATE
1	___/___/___	___/___/___
2	___/___/___	___/___/___
3	___/___/___	___/___/___
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939 ELLIS STREET, SAN FRANCISCO, CALIFORNIA 94109 (415) 771-6000

Appendix B

SITE PHOTOGRAPHS

Photo B-1. Excavation #10 with surrounding security fencing.

Photo B-2. Excavated soils were temporarily stockpiled onsite with underlying plastic sheeting and cover.

Photo B-3. Excavation #11 with surrounding security fencing.

Photo B-4. Excavation #11 within the fencing.

Photo B-5. Excavation #11.

Photo B-6. Excavation #11 within the fencing. "Hot Zone" was identified due to the high arsenic concentrations. To enter the fenced area, Level C PPE ensemble was required.

Photo B-7. Excavated soils were stockpiled with underlying plastic sheeting and covered with sheeting. Stockpiles were marked with the excavation source for identification.

Photo B-8. Excavation #14 within security fencing.

Photo B-9. Excavation #5 near existing railroad tracks (to the right).

Photo B-10. Excavation #5 near existing tracks. The red line was the pre-marked excavation boundary.

Photo B-11. Excavation #5 with pre-marked boundaries.

Photo B-12. Excavation #8 with workers wearing appropriate personal protective equipment during the excavation activities.

Photo B-13. Watering for dust control.

Photo B-14. Measuring excavation depth for accuracy.

Photo B-15. Backfilling excavation #4 with clean soil.

Photo B-16. Workers wearing appropriate personal protective equipment during the excavation activities.

Photo B-17. Excavation #4 near existing tracks.

Photo B-18. Excavation #4 near existing tracks.

Photo B-19. Excavation #4 near existing tracks.

Photo B-20. Air monitoring equipment (Data RAM).

Photo B-21. Excavation backfilled with the clean fill material from Redberry Ridge site.

Photo B-22. Stockpiles were covered with plastic sheeting and marked with the excavation source for identification.

Photo B-23. Stockpile covered with the plastic sheeting and solid bags. The stake showed that the soil was from Excavation 6.

Photo B-24. Compaction testing on new backfill.

Photo B-25. Stockpiles covered with plastic sheeting for erosion control and dust suppression.

Appendix C

DAILY FIELD REPORTS

Newhall Yard Affected Soils Excavation Field Log

Date: 1/31/08
Excavation Number: 6

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: Tyvek not used by everyone. wet surface; mod wind no dust. Spot checks on dust meter showed zero dust all day.

Type of work performed: Excavation of Excavation #6
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Finn
VTA Rep(s) on site: Martinez

Weather Conditions: 50's, windy, mostly cloudy, light rain in afternoon

Excavation:

Location: 6
Depth: 3'
Size: 600cy
Soil Description: Sandy silty Clay
Equipment used: Excavator
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: **yes** **no** Martinez
Was groundwater encountered in the excavation: **yes** **no**
Was the excavation finished neatly and cleanly with square corners: **yes** **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: **yes** **no**
Notes: Excavated and fenced ~1300. Excavation fenced and left open. A lot of debris was encountered. aphalt, concrete wood, metal etc.

Stockpile:

Stockpile Location: 200' S of Excavation 6
Excavations included in stockpile: 6
Approximate Volume: 700cy
Was the stockpile underlaid with Visqueen: (yes) no
Was the stockpile properly maintained: (yes) no
Was care taken not to damage Visqueen or spill: (yes) no
Was the stockpile finished and properly covered at the end of day: (yes) no
Type of equipment used: D6LSF Bulldozer & two Syd dump trucks
Notes: laid out on 10ml Visqueen (black) & covered w/ same material. sandbagged.

General Day Notes:

900- large footing 4'x3' encountered eventually just removed.
1030 - truck arrives dropping off more stockpile supplies
1230- Martinez back on site
1330-1345 - Rained lightly

Newhall Yard Affected Soils Excavation Field Log

Date: 2/1/08
Excavation Number: 7

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: Simply removing asphalt though no dust monitoring was set up. ground was moist & no visable dust was seen.

Type of work performed: removal of asphalt pad
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Fim
VTA Rep(s) on site: None

Weather Conditions: mostly clear, 50's, windy

Excavation:

Location: excavation 7
Depth: 6"
Size:
Soil Description: none
Equipment used: D6 15 F Bulldozer & Excavator
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: ~~**yes**~~ **no**
Was groundwater encountered in the excavation: ~~**yes**~~ **no**
Was the excavation finished neatly and cleanly with square corners: ~~**yes**~~ **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: ~~**yes**~~ **no**
Notes: Simple removal of asphalt. Stockpiled clean asphalt along side for recycling.

Newhall Yard Affected Soils Excavation Field Log

Date: 2/4/08
Excavation Number: 7 & 9

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: Dust monitoring taken 1230 No dust detected

Type of work performed: Excavation at Excavations 6 & 9
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Fim
VTA Rep(s) on site: Martinez

Weather Conditions: Clear, 50's, windy

Excavation:

Location: 6 & 9
Depth: 3'
Size: ?
Soil Description: sand silty clay, sand, fat clay
Equipment used: D61SF Bulldozer & excavator
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: **yes** **no**
Was groundwater encountered in the excavation: **yes** **no**
Was the excavation finished neatly and cleanly with square corners: **yes** **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: **yes** **no**
Notes: Excavation #7 about 1/2 complete water seeping in and left pending VTA direction. Fenced.
Excavation 9 completed w/o issue. Completed at 1500

Stockpile:

Stockpile Location: 300' S of Excavation #7 & 200' S of Excavation #9

Excavations included in stockpile: 7 9

Approximate Volume: ?

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: D61SF Bulldozer & three Syd Dump trucks

Notes: Stockpiles on fence side of site road. Underlaid w/ 10mL Visqueen & covered w/ same. Sandbagged.

General Day Notes:

Water in ex. 7 probably perched water table.
refueled excavator at 900 (spill kit present)
1200 stopped due to two flat tires on dump trucks

Newhall Yard Affected Soils Excavation Field Log

Date: 3/7/2008
Excavation Number: 10

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: Low to no wind most of day. air monitoring detected no dust

Type of work performed: Excavation 10
Contractor(s) on site: Pac States
EarthTech Rep(s) on site: Anders Finn
VTA Rep(s) on site: Ben Lobener, Martinez

Weather Conditions: Clear ~65-75°

Excavation:

Location: 10
Depth: 3'
Size: 140' x 80'
Soil Description: Silty Sand
Equipment used: Excavator & Syd Dump Trucks
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: **yes** **no**
Was groundwater encountered in the excavation: **yes** **no**
Was the excavation finished neatly and cleanly with square corners: **yes** **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: **yes** **no**
Notes: Minor Water encountered at NW end of excavation nearly dry by End of Day.

Stockpile:

Stockpile Location: 10

Excavations included in stockpile: 10

Approximate Volume: 1244 yd³

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: Bulldozer & Syd Dump Trucks

Notes:

General Day Notes: Nothing of interest other than water that dried in excavation by end of day. Ex 7. Sill is wet

Newhall Yard Affected Soils Excavation Field Log

Date: 3/10/2008
Excavation Number: 11, 1, 2, & 3

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C (Modified C) D
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: (yes) no
Safety Notes: Safety zone set up. level D at ex. 1, 2 & 3.

Type of work performed: Excavation
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anden Finn
VTA Rep(s) on site: Ben Lobener

Weather Conditions: Clear ~70-75°

Excavation:

Location: 11, 1, 2, 3
Depth: 6', 1', 1', 1'
Size: 22,500ft², 470ft², ~3600ft², 400ft²
Soil Description: highly varried between sand, silty sand & fat clay
Equipment used: Excavators (2), 5yd Dumptrucks
Was the excavation properly surveyed and marked before excavation: (yes) no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: approx 20% of ex. 11 complete

Stockpile:

Stockpile Location: 11, 1, 2, 3
Excavations included in stockpile: each stockpile includes 1 excavation
Approximate Volume: looks right
Was the stockpile underlaid with Visqueen: **yes** **no**
Was the stockpile properly maintained: **yes** **no**
Was care taken not to damage Visqueen or spill: **yes** **no**
Was the stockpile finished and properly covered at the end of day: **yes** **no**
Type of equipment used: Bulldozer & 5yd Dump trucks
Notes:

General Day Notes: nothing of interest. It's hard to exacty say depth of ex. 2 as ground surface is uneven. No fence istalled around 1, 2 & 3

Newhall Yard Affected Soils Excavation Field Log

Date: 3/11/2008
Excavation Number: 11

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: wind picked up & put safety zone downwind of excavation ~ noon.

Type of work performed: Excavation
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Finn
VTA Rep(s) on site: Ben Lobener

Weather Conditions: Clear ~65-70°F

Excavation:

Location: 11
Depth: 6'
Size: 150' x 150'
Soil Description: varied silty sand & fat clays.
Equipment used: 2 excavators & 5 yd Dump trucks
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: **yes** **no**
Was groundwater encountered in the excavation: **yes** **no**
Was the excavation finished neatly and cleanly with square corners: **yes** **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: **yes** **no**
Notes: Approx 90% complete at end of day

Stockpile:

Stockpile Location: 11

Excavations included in stockpile: 11

Approximate Volume: normal

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: Bulldozer & 5yd Dump trucks

Notes:

General Day Notes: all day smooth excavation

Newhall Yard Affected Soils Excavation Field Log

Date: 3/12/2008
Excavation Number: 14, 13, 12, 11

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C (Modified C) D
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: (yes) no
Safety Notes: Safety zone moved to ex 14 when 11 done

Type of work performed: Excavation
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Finn
VTA Rep(s) on site: Ben Lobener

Weather Conditions: Clear 65-70°F

Excavation:

Location: 14, 13, 12, 11
Depth: 1', 2', 2', 6'
Size: see plans
Soil Description: varied, silts, sands & clays
Equipment used: Excavators (2) & 5yd Dump Trucks
Was the excavation properly surveyed and marked before excavation: (yes) no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes:

Stockpile:

Stockpile Location: 14, 13, 12, 11

Excavations included in stockpile: each Excavation in separate stockpile

Approximate Volume: see plans

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: Bulldozer & Syd Dump trucks

Notes:

General Day Notes: Smooth Excavation all day

Newhall Yard Affected Soils Excavation Field Log

Date: 3/18/2008
Excavation Number: 4, 5, & 8

Were safety rules folled by contractor: **yes** **no**
Level of Safety PPE and field practices: **A B C Modified C D**
Were streamers in place to determine wind direction: **yes** **no**
Was dust/air monitoring equipment set up and logging: **yes** **no**
Safety Notes: Level C modified used at Ex. 8

Type of work performed: Excavation
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Anders Finck Carmen Goodell
VTA Rep(s) on site: Ben Lobener

Weather Conditions: Clear ~65-70°F

Excavation:

Location: 4, 5, 8
Depth: 3', 1', 2'
Size: see plans
Soil Description: ~~Sandy~~ silty Sand ~~[illegible]~~
Equipment used: Excavator & 10 wheel Dump Trucks
Was the excavation properly surveyed and marked before excavation: **yes** **no**
Was the proper excavation depth checked by contractor and VTA delegate: **yes** **no**
Was groundwater encountered in the excavation: **yes** **no**
Was the excavation finished neatly and cleanly with square corners: **yes** **no**
Was the bottom of the excavation scarified and prepped for fill and compaction: **yes** **no**
Notes: R.R. Ties encountered in high quantity at 4 & 5.

Stockpile:

Stockpile Location: 4, 5, 8

Excavations included in stockpile: each stockpile has only 1 excavation

Approximate Volume: normal

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: Bulldozer & 10 wheel dump trucks

Notes:

General Day Notes: Carmen replaced Anders @ approx 1130. Ex 8 completed & Backfilled begun & Ex 5 complete at 1130. Work stop from 1140 to 12:30 for trains. Ex 4 complete at 1430; backfill begun on Ex4 at 1450

Newhall Yard Affected Soils Excavation Field Log

Date: 3/20/08
Excavation Number: 11

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified C (D)
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: yes (no)
Safety Notes: Conformed to standard safety practices.

Type of work performed: Import, spread + compact fill in excavation 11
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Rick Hedrick + Paul Dotson
VTA Rep(s) on site: Ben Loebner

Weather Conditions: Clear 55°-65°

Excavation:

Location: 11
Depth: ~6'
Size: ~160' x 160'
Soil Description: SM/SC
Equipment used: 815 Compactor
Was the excavation properly surveyed and marked before excavation: yes no NA
Was the proper excavation depth checked by contractor and VTA delegate: yes no NA
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: 2 laborers recovering stockpiles w/ vibraplate.
8 bottom dump trucks delivered 34 loads from
Portola Valley borrow source (408 yd³)
Street sweeper on Newhall St.
Paul Dotson + I collected composite samples from stockpiles
+ delivered to Torrent Lab.

Rick Hedrick

Newhall Yard Affected Soils Excavation Field Log

Date: 3/21/08
Excavation Number: 11

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified C (D)
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: yes (no)
Safety Notes: Water truck performed dust control. Sweeper cleaned Newhall St.

Type of work performed: Import + compaction of fill in excavation #11
Contractor(s) on site: Pacific Stone
EarthTech Rep(s) on site: Rick Heidrich
VTA Rep(s) on site: Ron Loebner

Weather Conditions: Clear, 55°-65°

Excavation:

Location: 11
Depth: ~5'
Size: ~160'x160'
Soil Description: Import from Portola Valley SM/SC
Equipment used: 815 Sheepsfoot compactor & single bottom dump truck (10).
Was the excavation properly surveyed and marked before excavation: yes no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: yes no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: Terra Tech performed density tests in compacted fill.

Imported + placed 50 loads (600 cy) in excavation #11.

Rick Heidrich

Stockpile:

Stockpile Location: all

Excavations included in stockpile: _____

Approximate Volume: _____

Was the stockpile underlaid with Visqueen: **yes** **no**

Was the stockpile properly maintained: **yes** **no**

Was care taken not to damage Visqueen or spill: **yes** **no**

Was the stockpile finished and properly covered at the end of day: **yes** **no**

Type of equipment used: _____

Notes: 4 laborers securing visqueen over stockpiles using additional sandbags roped together.

General Day Notes: Paul Dotson + A completed composite soil sampling of all stockpiles. Excavation #7 is not completed so stockpile #7 will need additional sampling (~1400 cy) samples were delivered to Torrent Lab for analysis.

Newhall Yard Affected Soils Excavation Field Log

Date: 3/26/09
Excavation Number: 11

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified C (D)
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: yes (no)
Safety Notes: Water truck performed dust control on haul road + in excavation
Sweeper cleaned Newhall St.

Type of work performed: Import + compact fill in ex. 11
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Rick Hedrick
VTA Rep(s) on site: Ben Tolmer

Weather Conditions: Clear 55°-65°

Excavation:

Location: 11
Depth: ~4'
Size: ~160
Soil Description: Portola Valley SM/SC
Equipment used: 815 sheepsfoot + 10 single bottom dump trucks
Was the excavation properly surveyed and marked before excavation: yes no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: 52 loads (624 cy) imported from the Portola borrow, placed + compacted in ex. 11
2 laborers continue securing visqueen w/ additional sandbags.
Lucy F. + Dan K. performed safety audit.

Rick Hedrick

Newhall Yard Affected Soils Excavation Field Log

Date: 3/31/08
Excavation Number: 6, 11, 12

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified (C) D
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: yes (no)
Safety Notes; Water truck performed dust control
Street sweeper cleaned Newhall St.

Type of work performed: Backfill + compaction of excavations #6, #11, #12.
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Rick Hedrick
VTA Rep(s) on site: Ben Lehner

Weather Conditions: clear 50°-65°

Excavation:

Location: #6, #11, #12
Depth: ~3', ~3', ~1'
Size: 75x75, 160x160, ~50x50
Soil Description: Portola Valley SM/SC
Equipment used: 815 sheepsfoot, 9 single bottom dump trucks
Was the excavation properly surveyed and marked before excavation: yes no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: Completed backfill + compaction of excavations #6 + #12
Continued backfill of ex #11
Imported 49 loads (588 cy).

Rick Hedrick

Newhall Yard Affected Soils Excavation Field Log

Date: 4/2/08
Excavation Number: 7

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified C (D)
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: (yes) no
Safety Notes:

Type of work performed: Excavating
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Rick Heidrick
VTA Rep(s) on site: Ben Loebner

Weather Conditions: Cloudy - showers 50°-60°

Excavation:

Location: 7
Depth: 3'
Size:
Soil Description: SM/SC
Equipment used: CAT 330 Excavator, CAT D6R Dozer; 2: 10 cy dump trucks
Was the excavation properly surveyed and marked before excavation: (yes) no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: Spoils dumped on visqueen + covered w/ visqueen + weighted w/ sandbags. Completed Ex 7 to 3' deep.
2 Laborers

122 loads = 1464 cy

Newhall Yard Affected Soils Excavation Field Log

Date: 4/3/08
Excavation Number: 9

Were safety rules folled by contractor: (yes) no
Level of Safety PPE and field practices: A B C Modified C (D)
Were streamers in place to determine wind direction: (yes) no
Was dust/air monitoring equipment set up and logging: yes (no)
Safety Notes: Street sweeper on-site.

Type of work performed: Backfill
Contractor(s) on site: Pacific States
EarthTech Rep(s) on site: Rich Heidrick
VTA Rep(s) on site: Ben Loetner

Weather Conditions: Clear 50° - 65°

Excavation:

Location: 9
Depth: 3
Size:
Soil Description: SM/SC
Equipment used: CAT 815 Compactor, 10 Bottom Dumps, Water Truck
Was the excavation properly surveyed and marked before excavation: (yes) no
Was the proper excavation depth checked by contractor and VTA delegate: (yes) no
Was groundwater encountered in the excavation: yes (no)
Was the excavation finished neatly and cleanly with square corners: (yes) no
Was the bottom of the excavation scarified and prepped for fill and compaction: (yes) no
Notes: Completed backfill of Ex 9

Collected stockpile composite samples SP7-4 a-d
SP7-5 a-d
+ delivered to Torrent Lab.

Daily Field Report

TETCH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VIA

Report No.:

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Project: Newhall Yard Soil Disposal Monitoring

Date: 5/6/08

Project: No.: 10/2/8

Weather: A.M. P.M.

Temp.(°F): High Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pacific States	7

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Front End loader		1	1
Watering Truck		1	1

Visitors

Representing

Daily Notations: Started ~630. Excavation off hauling began with Stockpile 1,4,5 & 7 as nonhaz to Altamont. 35 trucks used for 3 trips but some did not make all trips. total of 102 loads. finised ~1600.

Signature:

Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall yard

Date: 5/7/08 Wed.

Project No.: 95604,64

Weather: A.M. overcast P.M. clear

Temp.(°F): High 70 Low 50 Rain 0

Contractor(s) Pacific States

Contractor Super(s) Cory, Rich

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
966 Loader		1	
water truck		1	
sweeper		1	
laborer		2	
bobcat		1	

Visitors: Ben Shebner

Representing: VTA

Daily Notations: Hauling 13 cy (~23 ton) double bottom dump trucks off hauled 128 loads to Altamont to be used as alternate daily cover.
First truck off @ 0650
Completed off haul of SP 7.
Begin SP #10.
Last load @ 1445.

Signature: Rich Kiebach

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard

Date: 5/8/08 Thur

Project: No.: 95604.04

Weather: A.M. overcast P.M. clear

Temp.(°F): High 70 Low 50 Rain 0

Contractor(s) Pacific States

Contractor Super(s) Rich Cory

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Loader 966		1	
Water truck		1	
Sweeper		1	
Laborer		2	
Load counter		1	

Visitors	Representing
Ben Delmer	VTA
Dan Nuslen	E.T.

Daily Notations:

SP11 (partial)

40 double bottom dumps off hauled SP10 + SP9 to alternate as alternate daily cover using 120 loads stockpile 0630 + last truck left site @ 1430.

Water truck for dust control + sweeper on Newhall Rd + Dr.

Signature: Rick Hedrick

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard

Date: 5/9/08 Fri

Project: No.: 95604.04

Weather: A.M. Clear P.M. clear

Temp.(°F): High 70 Low 50 Rain ~~0~~

Contractor(s) Pacific States

Contractor Super(s) Rich, Corey

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
CAT loader	966	1	
water truck		1	
sweeper		1	
laborers		2	
load counter		1	

Visitors: Ben Wolner

Representing: VTA

Daily Notations: offhaul SP 11 (partial), 2, 3, 13, 14, SP 11 alternate ADC portion.

4 double bottom dump trucks; 118 loads to alternate ADC (~23 ton, 13 yd³ each)

Signature: Rich Hertzig

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard

Date: 5/12 Mon

Project: No.: 95604.04

Weather: A.M. Clear P.M. Clear

Temp.(°F): High 65 Low 50 Rain ~~0~~

Contractor(s) Pacific States

Contractor Super(s) Rich

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
CAT Compactor	815	2	2
water travel		2	2
sweeper		1	1
bed cart		1	1

Visitors: Ben Liebman

Representing: VTA

Daily Notations: Import fill - compact excavations 7, 10, 11. All density tests passed. Fill from Tully Rd.

Signature: Rich Hedrick

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard

Date: 5/13 Tue

Project: No.: 95604.64

Weather: A.M. clear P.M. clear

Temp.(°F): High 70 Low 50 Rain 0

Contractor(s) Pacific State

Contractor Super(s) Rich

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P. S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
CAT Compactor	815	2	2
water truck		2	2
sweeper		1	1
load counter		1	1

Visitors	Representing
Ben Loebner	VTA

Daily Notations: backfill + compact excavation 7-11.

Signature: Neal Kechich

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall yard

Date: 5/14 Wed

Project: No.: 95664.04

Weather: A.M. Clear P.M. Clear

Temp.(°F): High 90 Low 60 Rain 0

Contractor(s) Pacific States

Contractor Super(s) Nick

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S	4

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
CAT compactor	815		

Visitors	Representing
Ben Dolan	VTA

Daily Notations: Backfill & compact excavation # 11 w/ Fully Rd compact soil.

Signature: [illegible]

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Daily Field Report

TH TECH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

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Project: Newhall Yard

Date: 5/15/08

Project: No.: 101248

Weather: A.M. P.M.

Temp.(°F): High 105 F Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pacific States	7

Visitors

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Compactor		2	2
Front end loader		1	1

Representing

Daily Notations: Start ~6:30 AM Back filling ex 7, ex 10 & finishing ex 11. Both completed. Topped off ex 6. to bring up to grade. very hot all day complete ~1600

Signature:

Daily Field Report

TH TECH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard

Date: 5/16/08

Project: No.: 101248

Weather: A.M. P.M.

Temp.(°F): High 105F Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pacific States	7

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Compactor		2	2
Front End Loader		1	1

Visitors

Representing

Daily Notations: Start Approx 6:30Am. Hot all day. backfilled ex 10 & ex. 13 all backfilling completed. Additional stockpiles & fencing stockpiles condensed into 2 piles & placed in site on visqueen near sprint complex

Signature:

Daily Field Report

TH TECH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard Disposal Monitoring

Date: 5/19/08

Project: No.: 101248

Weather: A.M. P.M.

Temp.(°F): High Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pac States	6
VTA	1

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Front End Loader		1	1
Watering Truck		1	1

Visitors

Representing

Daily Notations: Work in progress when I arrived. Continued to haul CalHAZ all day until ~1600 to Kettleman. No problems. Will continue tomorrow @630.

Signature:

Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: NEWHALL YARD HOT SPOT REMED.

Date: 5/20/08

Project: No.:

Weather: A.M. COOL P.M. WARM

Temp.(°F): High Low Rain N

Contractor(s) PACIFIC STATES

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use

Visitors	Representing
BEN LOEBNER	VTA

Daily Notations: 0615 LEAVE SAN JOSE OFFICE
0630 ARRIVE AT SITE; OBSERVE TRUCKS TRANSPORTING SOIL TO ALTAMONT & KETTLEMAN

TRUCKS TO ALTAMONT:

TRUCKING COMPANY	TRUCK NUMBER	DEPARTURE TIME
18 TEKING	204	615
18 TEKING	203	620
BMT	353	625
SINGH	198	630
RAMAN	17	635
ROAD RUNNER	777	641

Signature:

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Project ~~No.~~ VTA NEWHALL HOT SPOT REMED. Report No.: _____

Date: 5-20-08 Page: 2 of 4

ALTAMONT CONTINUED

TRUCKING COMPANY	TRUCK NUMBER	DEPARTURE TIME
ROAD RUNNER	555	645
CHAHAL	175	653
RM	38	658
CUSHENBERRY	510	705
MAJOR 1	55	714
GP	3	721
SANCHEZ	01	740
ALFARO	500	743
FERNANDEZ	2	748
FERNANDEZ	7	755
GARCIA	05	804
JM	01	811
Simon & Simon	80	817
B&M	10	825
* KETTLEMAN LOADS:		
18 TEKING	958	204
18 TEKING	1152	203
BMT	950	353
SINGH	1000	198
RAMAN	1032	17
ROAD RUNNER	1012	777

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Project No.: VTA NEWHALL HOT SPOT REMED. Report No.: _____

Date: 5-20-08 Page: 3 of 4

KETTLEMAN CONTINUED

TRUCKING COMPANY	TRUCK NUMBER	DEPARTURE TIME
ROAD RUNNER	555	1017
CHAHAL	175	1030
RM	38	1100
CUSHENBERRY	510	1115
MAJOR 1	55	1126
GP	3	1110
SANCHEZ	01	1125
ALFARO	500	1135
FERNANDEZ	2	1158
FERNANDEZ	7	1200
GARCIA	05	1224
JM	01	1235
Simon & Simon	80	1215
B & M	10	1207
CARPENTER	1	835
NORTHERN TRUCK	88	847
INTRINSIC	725	852
CJ PRICE	01	900
E & E	427	901
SK	26	910
JEFF HOPE	002	919

Signature _____

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Daily Field Report

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Project ~~No.~~: VTA NEWHALL HOTSPOT REMED. Report No.:

Date: 5-20-08 Page: 4 of 4

KETTLEMAN CONTINUED

TRUCKING COMPANY	TRUCK NUMBER	DEPARTURE TIME
WEST COAST	WC21	925
ME TRUCKING	8	932
BULLDOG	801	935
SAMAYOA	109	938
VEPEZ	P19	1045
STATEWIDE	2	1048
MEDEIROS	3	1050
RAMON	69	1250
ACKLAM	88	1252
SURJEET	9	~~1311~~ 1300
HERNANDEZ	3	~~1313~~ 1311
CHOUE	439	~~1333~~ 1313
HERNANDEZ	23	~~1335~~ 1333
RAMON	79	~~1337~~ 1335
MTS	26	~~1345~~ 1337
LANINI	49	~~1352~~ 1345
VERONICA	24	~~1400~~ 1352
NJW	384	~~1410~~ 1400
CDC	102	1410

1420 LEAVE SITE

1445 ARRIVE @ OFFICE; DEMOB; EOD.

Signature

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Daily Field Report

TH TECH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

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Project: Newhall Yard Disposal Monitoring

Date: 5/21/08

Project: No.: 181248

Weather: A.M. P.M.

Temp.(°F): High Low Rain

Contractor(s) Pacifit States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pac States	9
VTA	1

Visitors

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Front End loader		2	2
Watering Truck		1	1

Representing

Daily Notations: Started ~630. running two trucks lines today. Decon of Hazmat takes longer. All trucks to Kettleman. Done ~1530

Signature:

Daily Field Report

TETCH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

Page 1 of 1

Project: Newhall Yard Disposal Monitoring

Date: 5/22/04

Project: No.: 101248

Weather: A.M. P.M.

Temp.(°F): High Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pac States	9
VTA	1

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Front End Loader		2	2
Watering Truck		1	1

Visitors

Representing

Daily Notations: start 630. Same setup as yesterday. All trucks CRI Haz to Kettleman. Done ~1430. Two loaders used and deconing trucks

Signature:

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Daily Field Report

Owner: VTA

Report No.:

Project: Newhall yard

Page ____ of ____

Project No.: 95604.04

Date: 5/23/08

Weather: A.M. Cloudy P.M.

Temp.(°F): High 60 Low Rain ~~0~~

Contractor(s) Pacific States

Contractor Super(s) Rich Cutright

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
P.S.	6

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
CAT loader	950G	2	2
Water truck		2	2
Sweeper		1	1
laborers		3	3
foreman		1	1

Visitors

Ben Loebner — VTA (Representing)

Daily Notations: Completed off-hauling of stockpiles 11+12 CA-Hay (non-RCRA) to Kettleman landfill; 43 trucks hauled 43 loads. Remaining onsite is stockpile #8 CA-Hay (non-RCRA); a miscellaneous stockpile, and a pothole stockpile.
Stockpile #8 is scheduled for offhaul on Tues 5/27 @ 0700, 6 trucks total.

Signature: Rich Hetrick

Rev. 10/98

White Copy - Library File Yellow Copy - Owner Pink Copy - Employee's Field File

CF201/CPS

Daily Field Report

TETCH
A tyco INTERNATIONAL LTD. COMPANY

Owner: VTA

Report No.:

Page 1 of 1

Project: Newhall Yard Disposal Monitoring

Date: 5/27/08

Project: No.: 101248

Weather: A.M. P.M.

Temp.(°F): High Low Rain

Contractor(s) Pacific States

Contractor Super(s)

Number and Function of Contractors' Personnel, Hours Worked (Identify Subcontractors Separately)

Contractor	No. of People
Pacific States	5
VTA	1

Visitors

Major Constr. Equip. Description	Size/Capacity	No.	No. in Use
Front End Loader		1	1
Watering Truck		1	1

Representing

Daily Notations: work started when trucks arrived ~6:30am. Loaded 7 trucks with remaining CALHAZ to Kettleman & some disposal of extra soils from import (rejected). Cory on site later & 2 trucks w/ extra soils were recalled to another site so they were not disposed of CALHAZ.

Signature:

Appendix G

COMPACTION TESTING RESULTS

Pacific States
ENVIRONMENTAL CONTRACTORS, INC.

LETTER OF TRANSMITTAL

11555 Dublin Blvd., Dublin, CA 94568
Tel. 925-803-4333 Fax 925-803-4334

DATE	JOB NO.
7/8/2008	607144

RE: Excavation/Compaction Results

TO

Santa Clara Valley Transportation Authority

3331 North First Street

San Jose, CA 95134-1927

Attn.: Joseph Sandoval 408-464-7742 (cell)

WE ARE SENDING YOU:- ☒ Attached ☐ under separate cover via _____ the following items;

☐ Prints ☐ Shop Drawings ☐ Plans ☐ Specifications ☐ Samples

☐ Change Order ☐ Copy of Letter ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	7/8/08	1	Excavation/Compaction Results of Backfilled Areas, Master Set

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ for approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☐ for your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS : _____

COPY TO _____

File No. _____

SIGNED: _____
Cory Divers

If enclosures are not as noted, kindly notify us at once.

SANTA CLARA
Valley Transportation Authority

3331 North First Street
San Jose, CA 95134-1906

Submittal Cover Letter

CONTRACTOR: Pacific States Environmental Contractors

SIGNED: [signature]

CONTRACT: C401

CONTRACT NO.: 07044

TYPE OF SUBMITTAL: Updated CPM Schedule
(I.E. Mix Design, Shop Drawing, Sample, Product Info., etc.)

CONSECUTIVE SUBMITTAL NO.: 98

DATE: 7-8-08

ORIGINAL DATE
IF RESUBMITTAL:

SUBCONTRACTOR/SUPPLIER: Pacific States Environmental Contractors

TO BE COMPLETED BY CONTRACTOR

	ITEMS / SHEET NO. DESCRIPTION	TECH. SUBMITTAL LIST NO.	REF. PLAN NO. or SPEC. SEC.	CHECK IF DEVIATION
1.	Excavation/Compaction Results of Backfilled Areas, Master Set	11	TS 02315	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

TO BE COMPLETED BY SUBMITTAL RECEIVER

No Exception Taken (NET): Make Corrections Noted (MCN): Amend & Resubmit (A/R)

ITEMS / SHEET NO.	ACTION: NET-MCN-A/R	INITIAL	REMARKS	ITEMS / SHEET NO.	ACTION: NET- MCN-A/R	INITIAL	REMARKS
1.				1.			
2.				2.			
3.				3.			
4.				4.			
5.				5.			

TO BE COMPLETED BY VTA

INCOMING ROUTING				OUTGOING ROUTING			
RECEIVED BY	SETS RETAINED	INITIALS	DATE RECEIVED	RECEIVED BY	SETS RETAINED	INITIALS	DATE REQUIRED
1. Resident Inspector				1.			
2.				2. Scheduler			
3. Project A/E				3. Materials Lab			
4. Design Consultant				4. Design Consultant			
5. Materials Lab				5. Project A/E			
6. Scheduler				6. Unit Head			
7.				7. Resident Inspector			

TRANSMITTED TO CONTRACTOR ON: _____
(Mail, Hand Delivered, etc)

BY: _____
(Resident Inspector)

DISTRIBUTION: White - Contractor Blue - Unit Head Green - Resident Inspector Canary - Project A/E Pink - RI / Pending Review Goldenrod - Contractor / Pending Review

Job Number: 607144
Job Name: SCVTA - Hazmat Soil Removal, Demo Buildings, & Install Fences, Newhall

Description: Excavation Backfill Records

Excavation #	Depth of Compaction Test	Date Backfilled	Compaction Test Result
1	-1	3/14/08	Visual Pass
1	0	3/14/08	94%
2	-1	3/14/08	Visual Pass
2	0	3/14/08	93%
3	-1	3/14/08	Visual Pass
3	0	3/14/08	93%
4	-3	3/13/08	Visual Pass
4	-2	3/13/08	92%
4	-1	3/13/08	91%
4	0	3/14/08	92%
5	-1	3/13/08	Visual Pass
5	0	3/13/08	93%
6	-3	2/5/08	Visual Pass
6	-2	2/05/08, 3/31/08	93, 93%
6	-1	3/31/08	94%
6	0	3/31/08	98%
7	-3	5/12/08	Visual Pass
7	-2	5/13/08	97, 97%
7	-1	5/13/08	96, 96%
7	0	5/15/08	97, 99%
8	-1	3/13/08	Visual Pass
8	0	3/13/08	92%
9	-3	4/3/08	Visual Pass
9	-2	4/3/08	99, 97%
9	-1	4/3/08	93, 96%
9	0	4/3/08	95, 93%
10	-3	5/12/08	Visual Pass
10	-2	5/15/08	97, 99%
10	-1	5/16/08	96, 98%
10	0	5/16/08	97, 97%
11	-6	3/14/08	Visual Pass
11	-5	3/20/08, 3/21/08	92, 94, 94, 94, 94, 95%
11	-4	3/26/08	94, 94, 94, 97, 97, 96%
11	-3	5/13/08	98, 97, 97, 97, 98%
11	-2	5/13/08, 5/14/08	95, 97, 97, 98, 97%
11	-1	5/14/08	96, 97, 96, 96%
11	0	5/15/08	96, 97, 95, 97%
12	-2	3/31/08	Visual Pass
12	-1	3/31/08	99%
12	0	3/31/08	99%
13	-2	5/15/08	Visual Pass
13	-1	5/16/08	95%
13	0	5/16/08	94%
14	-1	3/14/08	Visual Pass
14	0	3/14/08	90, 92%
Surcharge	0	2/13/08 05/14/08	95, 92, 93, 95%
Surcharge	1	5/14/08	93%
Surcharge	2	5/14/08	94%
Surcharge	3	5/14/08	93%
Surcharge	4	5/14/08	98, 98%
Surcharge	5	5/14/08	95%

Geotechnical Environmental Special Inspections Material

TERRASEARCH, INC.

San Jose • Livermore • Sacramento • Oakland • Fresno

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: Newhall @ Coleman / VTA

Job Location: San Jose Client: Pacific States

Date: 2/13/08 Sheet # 1

Contractor: DeSilva / Pacific States

Curve # 826 PCF 149.9 % 5.4

Material Desc. ON Site

Curve # PCF: %

Material Desc.

The following was noted:

Contractor ripped down the Surcharge Area to -1' from base level & compacted the area w/ 815 machine. Base level is the depth for which the Surcharge area is @ the same level adjacent to the rest of the adjoining area.
The soil was collected for curve analysis & after calculations the compaction tests were determined to be above the required 90% compaction.
This area is called zone 1+2 and will be backfilled at a later date upwards of 5' height above base level.
Approx. dimension is 120' x 60'

Density: STD: 4905 Moisture: STD: 3462 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Surcharge Area - S. Side	BL	1354	.276	150	656	.189	7	4.9	143	95	826 90
2	↓ - N. Side	↓	1499	.306	146	776	.224	8.75	6.4	137.25	92	↓

Summary of Hours Charged:

Arrive: Travel:

Depart: Total:

Field Rep:

Date: 2/13/08

04/3/08

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH INC.

Daily Field of Earthwork

Job Number: 11788.6PW Job Name: Newhall Dr. - VTA

Job Location: San Jose Client: Pacific States

Date: 3/13/08' Sheet # 1

Contractor: Pacific States

Curve # 841 PCF: 132.3% 8.9

Material Desc. Import

Curve # PCF: %

Material Desc.

The following was noted: Kamran called & asked me to go to this job as soon as possible. (I'll called @ 1050hrs & arrived @ 1115hrs). I received verbal & written information for soil curve #841.

There are 3 locations being worked on today - Excavation #5 @ -1' FG depth, Excavation #4 @ -3' depth and Excavation #8 @ -1' depth.

After speaking w/ Brian (Pacific States) and Ben (VTA) was informed that the procedure is to compact the base level of each excavation site & then I am to visually inspect & check w/ probe the native material contained therein & determine that it seems or appears to be at 90% or above compaction then the contractor backfills in 6" lifts - I will inspect each 6" lift w/ probe & visually then each 1' [redacted] section I will test for compaction. This was done for each location worked on today and I asked for several areas to be watered down as necessary or mixed materials w/ same material containing more moisture - 815 compactor used.

Density: STD: 4928 Moisture: STD: 3487 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation #8	FG	1834	.372	137.35	1221	.350	16.23	13.4	121.12	92	841/90
2	Excavation #5	FG	1767	.348	129.84	1267	.363	16.86	13.7	122.98	93	↓
3	Excavation #4	-2' FG	1839	.373	137.35	1215	.348	16.23	13.4	121.12	92	↓
4	↓	-1' FG	1834	.372	137.35	1306	.375	17.48	14.6	119.87	91	↓

Summary of Hours Charged:

Arrive: 1115 hrs. Travel: 1 hr.

Depart: 1745 hrs. Total: 7 1/2 hrs.

Field Rep:

Date: 3/13/08'

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH INC.

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: Newhall @ Coleman (VTA)

Job Location: San Jose Client: Pacific States

Date: 3/14/08' Sheet # 1

Contractor: [redacted] Pacific States / DaSilva Grading

Curve # 841 PCF 132.3 % 8.9

Material Desc. Import

Curve # PCF: %

Material Desc.

The following was noted: Excavation sites #2, 3, 4, 4 and 1 were all @ -1' FG. Contractor watered base level areas and compacted w/ 815. I checked each one w/ probe at base - native material - Good &
Import soil backfilled for each location in 6" lifts & was checked w/ probe each 6" lift & tested for compaction for each 1' thickness of material (± FG).
All tests were at least 90% compaction or above.
Checked Excavation #6 base level - Good - this one had already been backfilled on a previous date but the material has been removed per VTA request.
Checked baselevel for Excavation #11 @ - 6' - Good & Contractor had compacted w/ 815 after watering w/ truck.

Density: STD: 4938 Moisture: STD: 3449 Depth: 8" Gauge: 5272

Test No	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation #2	FG	1638	.332	142.34	1367	.396	18.73	15.2	123.61	93	841 @ 90
2	Excavation #3		1660	.336	141.72	1300	.377	18.10	14.6	123.62	93	
3	Excavation #4		1744	.353	139.22	1315	.381	18.10	14.9	121.12	92	
4	Excavation #14 N.W. Area		1825	.370	137.35	1323	.384	18.10	15.2	119.25	90	
5	↓ S.E. Area		1721	.349	139.84	1312	.380	18.10	14.9	121.74	92	
6	Excavation #1		1686	.341	141.09	1205	.349	16.23	13	124.86	94	

Summary of Hours Charged:

Arrive: 0745 1100 Travel: 1 hr. x [signature] Field Rep: [signature]

Depart: 1015 1400 Total: 6 1/2 hrs. Date: 3/14/08'

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH INC.

ENGINEERS AND GEOLOGISTS FIELD REPORT

Job No.: 11788.GPW	Job Name: Newhall @ Coleman (VTA)
Job Location: San Jose	Client: Pacific States
Earthwork:	Foundations:
Other: X Excavation site #11	

The following was noted: Excavation site #11 had been sprayed w/ water from water truck @ the base level of -6' FG and compacted w/ 815 on 3/14/08'. At that time I checked the base level native material w/ metal probe to determine the firmness contained within. The material appeared to be solid and today the contractor will be importing soil for use w/ backfill operations at this location.

The import material arrived today @ 0920hrs. 1st load and was being delivered @ an average of 1 load every 8 min. Throughout the day the material was being spread out and sprayed w/ water, compacted w/ 815. By the end of the workday there hadn't been enough material compacted (thickness) to have taken compaction tests. I did however probe the complete excavation site & was satisfied w/ the firmness of the material & quality of material.

Sketch / Diagram

End of Day —

West half of site - between 2"-6" of import material

East half of site - between 0"-3" of import material

Field Representative: [signature]

Date: 3/20/08'

TERRASEARCH INC.

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: Newhall & Coleman (VTA)

Job Location: San Jose Client: Pacific States

Date: 3/21/08' Sheet # 1

Contractor: Pacific States

Curve # 847 PCF 122.7% 12.5

Material Desc. Import

Curve # PCF: %

Material Desc.

The following was noted:

Contractor bringing import material & off loading @ Excavation site #11. They are spreading the soil & leveling while lightly spraying w/ water from water truck. The 815 is being used for compaction of the material.

I checked the material's compaction for atleast each 6" w/ metal probe (including checking it out last work day (IE Thursday 3/20/08') - material is good (few rocks & very little debris) & appears solid

Compaction tests were above 90% compaction requirement

Density: STD: 4931 Moisture: STD: 3457 Depth: 6"+8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation site 11 - S.W. Area	5' FG	3584	.727	131.73	1371	.397	18.73	16.6	113	92	847 = 90
2	- N.W. Area		1931	.392	134.85	1457	.421	19.98	17.4	114.87	94	
3	- Middle (West) Area		1977	.401	134.22	1370	.396	18.73	16.2	115.49	94	

~~Excavation #11~~

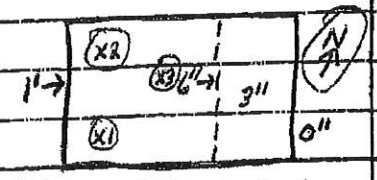

Diagram indicates test locations and approx. thickness of import material @ 1215 hrs.

Summary of Hours Charged:

Arrive: Travel:

Depart: Total:

Field Rep:

Date: 3/21/08'

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH, INC.

San Jose • Livermore • Sacramento • Oakland • Fresno

Daily Field of Earthwork

Job Number: 11788.6PW Job Name: Newhall & Coleman (VTA)

Job Location: San Jose Client: Pacific States

Date: 3/26/08 Sheet # 1

Contractor: Pacific States

Curve # 847 PCF 122.7 % 12.5

Material Desc. Import

Curve # PCF: %

Material Desc.

The following was noted:

Contractor continues w/ import soil backfill on Excavation site #11.
Performed compaction tests @ -4' FG @ different locations - material is solid w/ adequate moisture.
Contractor using 815 for compaction & spreading and water truck for mixing material w/ water.
Took measurements around the perimeter of site to verify depths (IE verify material thickness that has been placed).
By the end of the day the west half has been backfilled to -4' FG and the East half to -5½' to -6' FG.

Density: STD: 4930 Moisture: STD: 3446 Depth: 8" Gauge: 5272

Test No.	Location	DFG.	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation Site #11 - middle w. side	-4'/FG	2014	.409	132.98	1323	.384	18.10	15.8	114.87	94	847 @ 90
2	- N.W. Corner	↓	1975	.401	134.20	1381	.401	19.35	16.8	114.87	94	↓
3	- S.W. Corner	↓	1943	.394	134.85	1439	.418	19.98	17.4	114.87	94	↓

Summary of Hours Charged:

Arrive 0900 hrs. Travel 1.0 hrs.

Depart 1600 hrs. Total 8 hrs.

Field Rep:

Date 3/26/08

WHITE: Main File YELLOW: Client PINK: Field File

Geotechnical Environmental Special Inspections Material Testing
TERRASEARCH, INC.
San Jose • Livermore • Sacramento • Oakland • Fresno

Daily Field of Earthwork

Job Number: 11788.6PW Job Name: Newhall & Coleman (VTA)
Date: 3/31/08' Sheet # 1
Job Location: San Jose Client: Pacific States
Contractor: Pacific States
The following was noted: Contractor re-compacting -2' FG level on Excavation #6 w/ 815 using import material. This site had originally been backfilled & the soil removed at the direction of the (VTA). After checking w/ probe & performing compaction test they continued backfilling w/ import material.
Excavation #12 base level @ -2' FG native material is good OK to backfill w/ import. - After performing proper probe checks & compaction tests, the site (#12) was brought up to FG level. Contractor went back over to Excavation site #11 and import material is being [redacted] placed there.

Excavation sites 12 and 6 are good & Finished to FG level w/ proper compaction.

Curve # 847 PCF 122.7% 12.5
Material Desc. Import
Curve # 842 PCF 132.3% 8.9
Material Desc. Import

Density: STD: 4920 Moisture: STD: 3447 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens pcf	Mois. Count	Mois. Count Ratio	Mois. Cont pcf	Mois. Con %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation site #6	-2' FG	1705	.347	140.47	1234	.358	16.86	13.6	123.61	93	842 0.90
2	↓	-1' FG	1981	.403	133.60	1343	.390	18.73	16.3	114.87	94	847 0.90
3	Excavation site #12	↓	1704	.346	140.47	1416	.411	19.35	16	121.12	99	
4	↓	FG	1667	.339	141.09	1440	.418	19.98	16.5	121.11	99	
5	Excavation site #6	↓	1774	.361	138.59	1346	.390	18.73	15.6	119.86	98	↓

Summary of Hours Charged:
Arrive 0915 Travel 1.0 hr. Field Rep: [signature]
Depart: 1615 Total: 8 hrs. Date: 3/31/08'

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH INC.

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: Newhall & Coleman (VTA)	Date: 4/3/08' Sheet # 1
Job Location: San Jose Client: Pacific States	Contractor: Pacific States
The following was noted: Contractor has compacted the base level native material (after mixing w/ water) @ -3' FG on Excavation site #9 and I checked w/ probe - Good! Appears solid w/ adequate moisture. (It rained last night also) They are backfilling w/ import soil (Curve #847) while mixing w/ water & compacting w/ 815. Compaction tests are in compliance w/ plans.	Curve # 847 PCF 122.7 % 12.5
	Material Desc. Import
	Curve # PCF: %
	Material Desc.

Density: STD: 4890 Moisture: STD: 3451 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation Site #9 - W. side	-2' FG	1748	.357	139.22	1340	.388	18.10	14.9	121.12	99	847 90
2	- E. Side	↓	1809	.370	137.35	1331	.386	18.10	15.2	119.25	97	
3	- E. Side	-1' FG	2022	.413	132.98	1347	.390	18.73	16.4	114.25	93	
4	- W. side	↓	1834	.375	136.72	1389	.402	19.35	16.5	117.37	96	
5	- W. Side	FG	1934	.396	134.85	1353	.392	18.73	16.1	116.12	95	
6	- E. Side	↓	2054	.420	132.35	1334	.387	18.10	15.8	114.25	93	

Summary of Hours Charged:

Arrive: 0830 hrs. Travel: 1.0 hr.

Depart: 1530 hrs. Total: 8 hrs.

Field Rep: [signature]

Date: 4/3/08'

WHITE: Main File YELLOW: Client PINK: Field File

Geotechnical Environmental Special Inspections Material Testing
TERRASEARCH, INC.
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Daily Field of Earthwork

Job Number: 11788.GPW Job Name: (VTA) Coleman @ Newhall	Date: 5/12/08 Sheet # 1
Job Location: San Jose Client: Pacific States	Contractor: Pacific States
The following was noted: Was scheduled for Elmwood Properties @	Curve # 867 PCF 130.7 % 12.1
0800 w/ Desilva Gates @ bridge area but was called by	Material Desc. Import
Rich w/ Pacific States & told that he scheduled Terrasearch	Curve # PCF: %
@ 0730 @ Newhall/Coleman project. I contacted Jeff	Material Desc.

(supervisor) & was told to go to Newhall @ Coleman job. I arrived on site @ 0808 hrs, & Rich told me that they will be working on (2) excavation sites today (#7 & #11) & that #7 @ -3' FG w/ base native material had already been compacted w/ 815 last Friday & watered & watered again this morning. I checked base material w/ metal probe - Good! Gave approval to begin backfill

0824 hrs. - Began unloading material (soil) @ both locations. This material is import from a new source (Tully Rd. - San Jose) - Curve # 867

There are (2) 815's and (2) water trucks on site (one for each site). Contractor working on compacting base level of Excavation site #10 @ -3' (Native level w/ 815 & water truck)

Density: STD: 4939 Moisture: STD: 3452 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation Site #11 - S.E. corner	-5' FG	2161	.438	130.48	1282	.371	17.48	15.5	113	94	867.90
2	- E. Side		2086	.422	131.73	1379	.399	18.73	16.6	113	94	
3	- N. Side		2025	.410	132.98	1362	.395	18.73	16.4	114.25	95	
4	- N.E. Corner	-4' FG	1876	.380	136.1	1384	.401	19.35	16.6	116.75	97	
5	- E. Side		1858	.376	136.72	1427	.413	19.98	17.1	116.74	97	
6	- S.E. Side		1958	.396	134.85	1389	.402	19.35	16.8	115.5	96	

Checked w/ probe - Good!
Contractor stopped backfilling Excavation site #7 @ -2.5' FG
Started backfilling soil @ Excavation site #10

Summary of Hours Charged:
Arrive: 0815 Travel: 1.0 hr.
Depart: 1515 Total: 8 hrs.

Field Rep: [signature]
Date: 5/12/08

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH, INC.

Daily Field of Earthwork

Job Number: 11788.6PW Job Name: (VTA) Newhalla Coleman

Date: 5/13/08 Sheet # 1

Job Location: San Jose Client: Pacific States

Contractor: Pacific States

The following was noted:

Curve # 867 PCF 120.7 % 12.1

Contractor backfilling Excavation sites #11 & 7 on various locations with import material. They used the 815 compactor & water from the water truck to mix w/ the material. The compaction tests were above the 90 % compaction test requirements.

Material Desc. Import

Curve # PCF: %

Material Desc.

Density: STD: 4916 Moisture: STD: 3440 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Cont. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation Site #11 - NE Area	2" FG	1845	.375	136.72	1335	.385	18.10	15.3	118.62	98	867 90
2	- S.E. Area		1869	.380	136.10	1407	.409	19.35	16.6	116.75	97	
3	- Center		1870	.380	136.10	1395	.406	19.35	16.6	116.75	97	
4	- S.W. Area		1928	.392	134.85	1296	.377	18.10	15.5	116.75	97	
5	- N.W. Area		1788	.364	137.97	1395	.406	19.35	16.3	118.62	98	
6	Excavation Site #7 - S.E. Area	2" FG	1932	.393	134.85	1315	.382	18.10	15.5	116.75	97	
7	- N.W. Area		1877	.382	136.10	1382	.402	19.35	16.6	116.75	97	
8	- W. Area	2" FG	1896	.386	135.47	1409	.410	19.35	16.7	116.12	96	
9	- E. Area		1931	.393	134.85	1363	.396	18.73	16.1	116.12	96	
10	Excavation Site #11 - N.W. Area	2" FG	1939	.394	134.85	1422	.413	19.98	17.4	114.87	95	
11	- S.W. Area		1867	.380	136.10	1415	.411	19.35	16.6	116.75	97	
12	- Center		1906	.388	135.47	1374	.399	18.73	16	116.74	97	

Summary of Hours Charged

Arrive 0800 Travel 1.0

Depart 1500 Total 8 hrs.

Field Rep:

Date 5/13/08

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH, INC

Daily Field of Earthwork

Job Number: 11788.6Pw Job Name: (VTA) Newbolt & Coleman

Job Location: San Jose Client: Pacific States

Date: 5/14/08 Sheet # 1 of 2

Contractor: Pacific States

Curve # 867 per 1207 % 121

Material Desc. Import

Curve # PCS: %

Material Desc.

The following was noted: Contractor continues backfill of Excavation site #11 & are building up the surcharge area w/ soil from Tully Rd (Curve #867). There are (2) locations in surcharge area which are connected.
1) @ Northend which will be built up from Existing grade (native material) to +1.5' to be compacted to 90% compaction
2) @ Southend which will be built up from Existing grade (native material) to +1' to be compacted to 90% compaction
Both areas to be built up after ward up to a total of +5' from original existing grade using 85% compaction requirement from the +1.5' and +1' original built up. The compacting equipment used was the 815 compactor & a jumping jack w/ no reference made to required moisture in soil. Tests were within acceptable requirements.

Density: STD: 4936 Moisture: STD: 3440 Depth: 8" Gauge: 5272

Test No.	Location	Info	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation Site #11 - S.E. Corner	2' FG	1865	.378	136.22	1330	.387	18.10	15.3	118.62	98	867 90
2	- N.E. Corner	↓	1882	.381	136.1	1404	.408	19.35	16.6	116.75	97	
3	Surcharge Area - N.E. Center	3.5' FG	1835	.372	137.35	1345	.391	18.77	15.8	118.62	98	
4	- S.W. Corner	4' FG	1828	.370	137.35	1368	.398	18.73	15.8	118.62	98	
5	- S.E. Corner	2.5' FG	2070	.419	132.35	1431	.416	19.98	17.8	112.37	93	
6	- N.W. Corner	2' FG	2013	.408	133.6	1447	.421	19.48	17.6	113.62	94	
7	- N.E. Corner	.5' FG	2066	.419	132.35	1424	.414	19.98	17.8	112.37	93	
8	- S.W. Corner	1' FG	2143	.434	130.98	1365	.397	18.73	16.8	111.75	93	
9	Excavation Site #11 - N.E. area		1946	.394	134.85	1377	.400	18.73	16.1	116.12	96	
10	- S.E. area		1894	.384	136.1	1363	.396	18.73	16	117.37	97	
11	- N.W. area		1947	.394	134.85	1341	.390	18.73	16.1	116.12	96	
12	- S.W. area		1972	.400	134.22	1296	.377	18.1	15.6	116.12	96	
13	Surcharge Area - S.E. area	FG	1993	.404	133.60	1364	.397	18.73	16.3	114.87	95	

Summary of Hours Charged

Arrive: 0800 Travel: 1.0 hr.

Depart: 1500 Total: 8 hrs.

Field Rep: [signature]

Date: 5/14/08

WHITE: Main File YELLOW: Client PINK: Field File

TERRASEARCH, INC.

Daily Field of Earthwork

Job Number: 11788.6PW Job Name: (VTA) Newhall & Coleman

Date: 5/14/08 Sheet # 2 of 2

Job Location: San Jose Client: Pacific States

Contractor: Pacific States

The following was noted:

Curve # 867 PCF 120.7 % 12.1

Material Desc. Import

Curve # PCF: %

Material Desc.

Page 2

Density STD: 4936 Moisture STD: 3440 Depth: 8" Gauge: 5272

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
14	Surcharge Area - N.W. corner	FG	1960	.397	134.22	1389	.404	19.35	16.8	114.87	95	(867) 92

Summary of Hours Charged

Arrive ..... Travel .....

Depart ..... Total .....

Field Rep. .....

Date 5/14/08

WHITE: Main File YELLOW: Client PINK: Field File

Geotechnical Environmental Special Inspections Material Testing
TERRASEARCH, INC.
San Jose • Livermore • Sacramento • Oakland • Fresno

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: (VTA) Newhall & Coleman
Job Location: San Jose Client: Pacific States

Date: 5/15/08' Sheet # 1
Contractor: Pacific States
Curve # 867 PCF/20.7% 12.1
Material Desc. Import
Curve # PCF: %
Material Desc.

The following was noted:

Contractor is continuing to backfill Excavation sites (#7, #11, #10) today using import material. They performed a pre-compaction Excavation site #13 @ -2' FG, which means that they compacted the native (in place) soil a base level & I checked it w/ probe for density. Good!
All compaction areas used water from water truck & mixed/compacted w/ 815 compactor. — All sites were solid.
Originally I brought out the guage #5272 to the project site this morning but while using the guage I determined it was broken (not working properly) even though I had tested it this morning at the office prior to bringing it out to site. I went back to the office and exchanged it for another guage.

Density: STD: 5071 Moisture: STD: 4533 Depth: 8" Gauge: 5896

Test No.	Location	D/G	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation site #7 (S.W. Corner)	FG	1956	.386	135	1987	.438	18	15.4	117	97	867 90
2	(N.E. Corner)		1883	.371	136.5	1948	.430	17.5	14.7	119	99	
3	Excavation site #11 (S.W. corner)		2015	.397	133.5	1983	.437	17.75	15.3	115.75	96	
4	(N.W. Corner)		1971	.389	134.5	1985	.438	18	15.5	116.5	97	
5	(N.E. Corner)		2024	.399	133.5	2019	.445	18.25	15.8	115.25	95	
6	(S.E. Corner)		1953	.385	135	1964	.433	17.75	15.1	117.25	97	
7	Excavation site #10 (E. side)	2' FG	2023	.399	133.5	1899	.419	17	14.6	116.5	97	
8	(W. side)		1905	.376	136	1871	.413	16.75	14	119.25	99	

Reviewed By

Summary of Hours Charged:
Arrive: 0800 Travel: 1hr *
Depart: 1500 Total: 8hrs.

Field Rep: [signature]
Date: 5/15/08'

WHITE: Main File YELLOW: Client PINK: Field File

Geotechnical Environmental Special Inspections Material Testing
TERRASEARCH, INC.
San Jose • Livermore • Sacramento • Oakland • Fresno

Daily Field of Earthwork

Job Number: 11788.GPW Job Name: (VTA) Newhall & Coleman
Date: 5/16/08 Sheet # 1
Job Location: San Jose Client: Pacific States
Contractor: Pacific States
Curve # 867 PCF 120.7 % 12.1
Material Desc. Import
Curve # PCF: %
Material Desc.

The following was noted:

Contractor backfilling Excavation sites #10 and #13 using import material mixing w/water from water truck and 815 compactor for compaction.
Soil is very clean w/only minor debris which is being removed as it is being worked into/onto excavation sites.
Compaction tests indicated that the material is solid w/adequate moisture. Above 90% compaction requirements.

Density: STD: 5127 Moisture: STD: 4471 Depth: 8" Gauge: 5896

Test No.	Location	DFG	Dens. Count	Dens. Count Ratio	Wet Dens. pcf	Mois. Count	Mois. Count Ratio	Mois. Cont. pcf	Mois. Con. %	Dry Dens. pcf	Rel. Comp. %	Soil Type & Remarks
1	Excavation site #10 (West side)	11" FSG	2032	.396	133.5	1919	.429	17.5	15.1	116	96	867 90
2	(East side)	↓	1970	.384	135	1898	.425	17.25	14.6	117.75	98	
3	(West side)	FSG	2012	.392	134	1902	.425	17.25	14.8	116.75	97	
4	(East side)	↓	1993	.389	134.5	1881	.421	17.25	14.7	117.25	97	
5	Excavation site #13 Center	11" FSG	2106	.411	132	1911	.427	17.5	15.3	114.5	95	
6	↓	FSG	2177	.425	130.5	1846	.413	16.75	14.7	113.75	94	↓

Reviewed by: Chief

Summary of Hours Charged:
Arrive: 0815 hrs. Travel: 1.0 hrs.
Depart: 1515 hrs. Total: 8 hrs.

Field Rep:
Date: 5/16/08

WHITE: Main File YELLOW: Client PINK: Field File

Appendix I
AIR MONITORING DATA

AIR MONITORIN[illegible] WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPB upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION Exc # 6	MONITORING EQUIPMENT (LEL, O2, PID) Mini Ram	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
1/31/08	8:30		.34			
	8:40		.30			
	8:55		.0			No Visible Dust
	9:10		.0			
	9:43		0			Meter @ 40' down wind
	10:56		.010			
	11:06		.0			
	11:20		.0			
						Soil Very moist

CALIBRATION

	Serial #	Results	Calibrated By:
PID		Pass	CD

Temperature: Low 60's Degrees F
Est Wind Speed: S-W 15-20 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN . . . - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0 2 mg/m³	None - use respirator with dust cartridge	< 4 mg/m³	None	No Visible Dust	None
greater than 0 2 mg/m³	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m³	Cease work until levels below 4 0 mg/m²		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
2/4/08	8:38	Exc # 7	Mini Ram			
	8:50		.05			Start Test
	9:00		.04			
			.00			End Test due to soft Bottom & water
2/4/08		Exc # 9				
	10:25					
	10:43		.0			Start Soil very moist
	10:58		.0			No Visible dust
	11:33		.0			
			.0			END
						Set up @ 40' down wind

CALIBRATION

	Serial #	Results	Calibrated By:
PID		OK	CD

Temperature: Low 60's Degrees F
Est Wind Speed: 15-20 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN( )G - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
2/12/08		EX 7	7:12	0.001		warm, no wind.
			7:18	0.010		
			7:25	0.002		
			7:51	0.008		
			7:45	0.006		
			8:03	0.003		
			8:15	0.000		
			8:42	0.005		
			9:12	0.000		
			10:01	0.003	0.003	

CALIBRATION

	Serial #	Results	Calibrated By:
PID		PASS	C.O.

Temperature: 70's Degrees F
Est Wind Speed: 0 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION Exc #10	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
2/12/08	12:10		.005			Warm, No wind, soil Moist
	12:22		.002			
	12:43		.000			

CALIBRATION

	Serial #	Results	Calibrated By:
PID		OK	C. Dixon

Temperature: 70's Degrees F
Est Wind Speed: 0 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
		Ex. #10				
5-7-08	800		.006			Warm, No wind wet soil.
	810		.005			
	820		.006			
	830		.000			
	840		.000		.004	
	850		.001			
	900		.005		.003	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	Cory Davis

Temperature: 60's Degrees F
Est Wind Speed: 0 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORINC /G - WORK AREA
Former UPRR Newhall Rail Yard .
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/10/08	7:15	EX 1	0.000			COOL, SLIGHT WIND
	7:20		0.003			
	7:25		0.002			
	7:31		0.001			
	7:42		0.002			
	7:46		0.000		0.002	

CALIBRATION

	Serial #	Results	Calibrated By:	
PID		PASS	C.A.	

Temperature: HIGH 50's Degrees F
Est Wind Speed: 5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-10	8:30	Ex # 10	.000			Cool, Slight wind.
	8:40	Ex. # 10	.000			
	8:50	Ex. # 10	.001			
	9:00	Ex. # 10	.000		.003	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	Cory Rivers

Temperature: High 50's Degrees F
Est Wind Speed: 5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-10	11:05	Ex # 11	.000			Warm, 70's light Breeze
	11:15	Ex # 11	.000		.002	
	11:25	Ex # 11	.002		.002	
	11:35	Ex # 11	.001			

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	Cory Divers

Temperature: 70's Degrees F
Est Wind Speed: Calm MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN( )G - WORK AREA
Former UPRR Newhall Rail Yard.
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/10/08	12:05	EX 3	0.001			
	12:11		0.005			
	12:17		0.011			
	12:22		0.003		0.007	

CALIBRATION

	Serial #	Results	Calibrated By:	
PID		PASS	CO.	

Temperature: 70's Degrees F
Est Wind Speed: S MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN( )G - WORK AREA
Former UPRR Newhall Rail Yard .
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	<4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/10/03	12:25	EX2	0.000			
	12:31		0.002			
	12:40		0.007			
	12:47		0.003			
	12:52		0.002			
	1:01		0.004		0.005	

CALIBRATION

	Serial #	Results	Calibrated By:
PID		PASS	C.O.

Temperature: 70's Degrees F
Est Wind Speed: 5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/10/08	1:35	EX 13	0.001			
	1:42		0.010			
	1:47		0.003			
	1:54		0.008			
	2:00		0.005			
	2:13		0.004		0.003	

CALIBRATION

	Serial #	Results	Calibrated By:
PID		PASS	C.D.

Temperature: 70's Degrees F
Est Wind Speed: 4 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-11	8:20	Ex#11	.000			
	8:40	Ex # 11	.004		.000	
	8:50	Ex # 11	.003		.000	
	9:00	Ex # 11	.015		.003	
	9:10	Ex # 11	.002			
	9:20	Ex # 11	.000			
	11:50	Ex # 11	.002			
	12:00	Ex #11	.000		.002	
	12:10	Ex # 11	.002			
	12:20	Ex # 11	.000		.009	
	12:30	Ex # 11	.000		.004	
	1:00	Ex # 11	.000.		.000	
	1:30	Ex. # 11	.000		.000	
	2:00	Ex. # 11	.000		.000	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	ok	Cory Divers

Temperature: 60's Degrees F
Est Wind Speed: Calm MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-12	7:45	Ex # 11	.039			
	8:00		.053			
	8:15		.054			
	8:30		.041		.042	
	8:45		.048		.037	
	9:30		.031		.031	
	10:30		.029		.034	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	ok.	Rich Cartright

Temperature: 50's/60's Degrees F
Est Wind Speed: Calm MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/12/08	10:35	Ex 12	0.001			
	10:39		0.003			
	10:44		0.003			
	10:49		0.001			
	10:54		0.004		0.003	

CALIBRATION

	Serial #	Results	Calibrated By:
PID		PASS	C.D.

Temperature: 70's Degrees F
Est Wind Speed: Calm MPH

Wind Direction: N, S, E, W (circle one)

AIR MONITORIN( )G - WORK AREA
Former UPRR Newhall Rail Yard.
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/12/08	11:02	Ex13	0.000			
	11:07		0.002			
	11:13		0.000			
	11:19		0.004			
	11:24		0.005			
	11:28		0.001	0.002		

CALIBRATION

	Serial #	Results	Calibrated By:
PID		PASS	C.D.

Temperature: 70's Degrees F
Est Wind Speed: Calm MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3/12	11:45	Area # 14	.033		.031	
	12:45	Ex # 14	.004			
	1:45	Ex # 14	.010			
	2:45	↓	.009			
	3:15	↓	.000		.028	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	Rick Cartright

Temperature: 70's Low Degrees F
Est Wind Speed: Calm MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME.	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-13	9:00	Area 4+5	.025			
	9:30	↓	.002			
	10:00	↓	.008			

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	ok	Rick Cartright

Temperature: 70's Degrees F
Est Wind Speed: 5-10 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
3-13	10:15	Area #8	.001			
	10:30		.000			
	10:45		.006			
	11:00		.005			
	11:15		.002			

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	Rich Cutright

Temperature: 70's Degrees F
Est Wind Speed: 5-10 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
4-2	8:30	Ex #7	.006			
	9:00		.000			
	9:30		.000		.004	
	10:30		.000			
	10:50					Turn off Because of Rain

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	ok	Rick Arright

Temperature: 60's Degrees F
Est Wind Speed: 0 MPH

Wind Direction: N, S, E, W (circle one)

AIR MONITORIN - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

C401

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: **Meter readings are average of 30 second sample.**

DATE	TIME	LOCATION/ OPERATION Exc # 6	MONITORING EQUIPMENT (LEL, O2, PID) Mini Ram	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
1/31/08	8:30		.34			
	8:40		.30			No Visable Dust
	8:55		.0			
	9:10		.0			Meter @ 40" down
	9:43		.0			wind
	10:56		.010			
	11:06		.0			
	11:20		.0			Soil. Very moist

CALIBRATION

	Serial #	Results	Calibrated By:
PID		Pass	CD

Temperature: Low 60's Degrees F
Est Wind Speed: S-W 15-20 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORIN[illegible] - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

C401

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
		Exc # 7	Mini Ram			
2/4/08	8:38		.05			Start Test
	8:50		.04			
	9:00		.00			End Test due to soft Bottom & water
2/4/08		Exc # 9				
	10:25		.0			Start Soil very moist
	10:43		.0			No Visible dust
	10:58		.0			
	11:33		.0			END
						Set up @ 40' down wind

CALIBRATION

	Serial #	Results	Calibrated By:
PID		OK	CD

Temperature: Low 60's Degrees F
Est Wind Speed: 15-20 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
5-19	900	ST # 11		.055		
	930			.049		
	1000			.043	.044	
	10:30			.021		
	11:00			.037		
	11:30			.045	.043	
	12:00			.043		
	12:30			.010	.040	
	100			.021		
	130			.012	.036	
	200			.036		
	2:30			.014		
	3:00			.23		
	330	Shut 0.58				

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	Good	Rich Cotright

Temperature: 70's Degrees F
Est Wind Speed: 5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0 2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0 2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4 0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
5-20	730	ST # 11	.026			
	8:00		.019			
	8:30		.021			
	9:00		.016			
	9:30		.007	.024		
	10:00		.005			
	10:30		.011			
	11:00		.009			
	11:30		.018			
	12:30		.068	.007		
	1:00		.002			
	1:30		.005			
	2:00		.002	.001		

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	good	Rich Wright

Temperature: 60's-70 Degrees F
Est Wind Speed: 5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING LOG - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0 2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0 2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
5-21	930	ST #11	.025			
	10:00		.019			
	10 30		.032			
	11 00		.027	.023		
	11:30		.024			
	12:00		.029			
	12:30		.043	.034		

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	good	Rich Cotright

Temperature: 60's Degrees F
Est Wind Speed: 5 to 10 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING LOG - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Dust Level (Area 12) Response	Dust Level (Area 8,14)) Miniram	Dust Level (Area 8,14)) Response	Dust Level (Other Areas) Miniram	Dust Level (Other Areas) Response
less than 0 2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0.2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	READING AT LOCATION - ppm or percent: 10-minute Time-Weighted Average	Comments/Excavation Classification
5/22/08	7:15	ST#11	0.008			
	7:22	↓	0.013			
	7:44		0.016			
	8:15		0.009		.012	

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	OK	C. Divens

Temperature: 70's Degrees F
Est Wind Speed: ~5 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Dust Level (Area 12) Response	Dust Level (Area 8,14)) Miniram	Dust Level (Area 8,14)) Response	Dust Level (Other Areas) Miniram	Dust Level (Other Areas) Response
less than 0.2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0 2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample.

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
5/23/08	7:08	ST #11	0.003			
	7:18		0.012			
	7:27		0.009			
	7:35		0.022			
	8:02		0.016			
	8:16		0.019		0.014	

CALIBRATION

	Serial #	Results	Calibrated By:	
PID				

Temperature: _____ Degrees F
Est Wind Speed: _____ MPH

Wind Direction: N, S, E, W (circle one)

AIR MONITORING - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0 2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0 2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls

Note: Meter readings are average of 30 second sample

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
5/27	7:30	ST#11	0.003			
	7:42		0.013			
	8:09		0.008			
	8:41		0.024			
	9:15		0.015	0.048		

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	good	Rich Cartright

Temperature: 60'S Degrees F
Est Wind Speed: 5 to 10 MPH
Wind Direction: N, S, E, W (circle one)

AIR MONITORING LOG - WORK AREA
Former UPRR Newhall Rail Yard
San Jose, California

Dust Level (Area 12) Miniram	Response	Dust Level (Area 8,14)) Miniram	Response	Dust Level (Other Areas) Miniram	Response
less than 0 2 mg/m^3	None - use respirator with dust cartridge	< 4 mg/m^3	None	No Visible Dust	None
greater than 0 2 mg/m^3	Add additional engineering controls, continuous monitoring, PPE upgrade if engineering controls fail	>4 mg/m^3	Cease work until levels below 4.0 mg/m^3		
				If using visual observation only, then on observation of Visible dust	Cease work until levels are below visible dust, or implement additional engineering controls.

Note: Meter readings are average of 30 second sample

DATE	TIME	LOCATION/ OPERATION	MONITORING EQUIPMENT (LEL, O2, PID)	READING AT LOCATION - ppm or percent: Max Reading	10-minute Time-Weighted Average	Comments/Excavation Classification
8/1	7:15	EXTRA UTA STOCKPILE	0.007			
	7:32		0.015			
	8:15		0.008			
	8:45		0.024			
	9:50		0.031			
	11:30		0.029			
	12:15		0.012			
	1:18		0.014	0.052		

CALIBRATION

	Serial #	Results	Calibrated By:
PID	5885	good	Brian Lesser

Temperature: 60'S Degrees F
Est Wind Speed: 5 to 10 MPH
Wind Direction: N, S, E, W (circle one)

August 13, 1992

Mr. Ron McNeil, Sr.
Custom Food Machinery
1881 E. Market Street
Stockton, CA 95025

Dear Mr. McNeil:

Subject: Case Closure for Custom Food Machinery, 1180 Campbell Avenue, San Jose—Site Code No. 10-034

Santa Clara Valley Water District (District) staff has reviewed the file concerning the fuel leak investigation conducted at the subject site. This letter notifies you that the District has, under authority of the District contract with the State Water Resources Control Board, determined that this case does not appear to pose a threat to groundwater.

By copy of this letter, we are transmitting a Case Closure Report to the Regional Water Quality Control Board (RWQCB). The RWQCB has granted the District the authority to provide closure for cases where groundwater has not been impacted.

Based on the information provided by you, District staff has determined that groundwater is not threatened by the reported release of petroleum hydrocarbons from the 5,000-gallon diesel underground storage tank at the subject site. District staff has also determined that soil impacted by the reported release has been removed and does not appear to pose a threat to groundwater quality at the subject site. Therefore, additional investigation and clean up of pollution related to the reported release is not required. Further work could be required if conditions change or a water quality threat is discovered at the site.

Please contact Kristina E. Traffas at our Camden Office at (408) 927-0710, extension 2638, if you require additional information.

Sincerely,

ORIGINAL SIGNED BY

Roger B. James
Operations and Water Quality Manager

cc: Santa Clara Valley Local Program Coordinator (w/att)
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

Ms. Donna Schimeck
State Water Resources Control Board
901 P Street
P.O. Box 944212
Sacramento, CA 94244-2120

Mr. Dan Firth (w/att)
Hazardous Materials Division
San Jose Fire Department
4 North Second Street, Suite 1100
San Jose, CA 95113-1305

D. Chesterman, Database, K. Traffas, C. Tulloch (w/att), Read

CT:cs:L8861e

SANTA CLARA VALLEY WATER DISTRICT
FUEL LEAK CASE CLOSURE MEMORANDUM

INTRODUCTION

The purpose of this memorandum is to present the basis of the Santa Clara Valley Water District (District) case closure of the subject site. This memorandum includes a brief site description and history, a description of investigation methods, and an evaluation of the investigation results and source removal action.

SITE INFORMATION

Site Name:	Custom Food Machinery		
Contact:	Ron McNeil, Sr.	**Telephone:**	(209)463-4343
Site Address:	1180 Campbell Avenue, San Jose		
Site Location:	Northwest of the intersection of Newhall Street and Campbell Avenue		

Type of Former or Current Business/Activity at Site

☐ Residential ☐ Commercial Gas Station ☐ Fuel Storage/Transfer Facility
☒ Other: Machine Processing

Surrounding Land Use

☐ Residential ☐ Commercial ☒ Industrial
☐ Other:

Tank Information

Underground Tanks at Site:

Number	Size (Gallons)	Type	Contents	Date Removed	Age of Tank (Years)
1	5,000	Steel	Diesel	06/28/91	>20

Piping:

Date Removed: 06/28/91 Age: >20 years

Description and Dates of Known or Suspected Releases: Contamination was detected in the soil samples collected on June 28, 1991. A URF dated August 16, 1991 was issued by the San Jose Fire Department.

Tank:

Removed: ☒ Yes ☐ No Slurry filled: ☐ Yes ☒ No Existing: ☐ Yes ☒ No

Reason for Tank Removal: No longer in use.

Description of Tank Conditions When Removed: Two holes were observed at the fill end of the tank at the midsection, and one hole was observed at the fill end of the tank at the top. Three holes were also observed in the piping near the tank.

List Any Leak Detection Monitoring or Inventory Results: None available

Was tank tested for tightness? ☐ Yes ☒ No Result: None

Tank Contents Used For:

☒ Business Use ☐ Personal Use ☐ Commercial Sale ☐ Waste Oil Disposal
☐ Other:

Responsible Party and Cost Recovery Information

The following responsible party has been notified that District oversight costs are provided under contract with the State Water Resources Control Board and that oversight charges will be recovered from the responsible party by the State Board.

Company Name:	CFM Partnership I		
Contact:	Ron McNeil, Sr	**Telephone:**	(209) 463-4343
Address:	1881 E. Market Street, Stockton CA 95025		
Owned Site From:	1982	**To:**	Present
Date of Cost Recovery Letter:	August 7, 1992		

Agency Involvement

Date of Fire Department/County Health URF: 08/16/91
Date of First District Letter to RP: 10/25/91
Date of District Site Inspection: None Performed

CASE CLOSURE EVALUATION

Investigative Methods

Activity	Appropriate	Inappropriate
Soil Sample Locations	X	
Soil Sample Collection Methods	X	
Soil Sample Preservation	X	
Groundwater Sample Collection Methods	N/A *	
Groundwater Sample Preservation	N/A	
Chain of Custody	X	
Certified Laboratory	X	
Laboratory Analyses	X	
Monitoring Well Design	N/A	
Monitoring Well Location	N/A	
Description of Inappropriate Methods, if any Noted Above: None noted		

* Not applicable

Local and Regional Hydrogeology

Groundwater was not encountered in the excavation at this site. Well log data for a well (State Well No. 07S1W01M01A) about 300 to 400 feet from the site indicates that groundwater was encountered at a depth of 39 feet below ground surface (bgs) in October 1988.

Soil Types at Site: The soil types below the tank were reported as silty clays and clayey silts from surface to 9.6 feet bgs. However, a soil particle size analysis was not performed to verify the soil description. The soil description does match the following information obtained from a log for a nearby well:

Depth In Feet	Major Soil Type
0-5	Silty clay
6-10	Silty clay
11-15	Silty clay
16-20	Silty clay
21-25	Silty clay
26-30	no description - sample not recovered
31-35	Sandy clay
36-40	Silty clay
41-45	Sandy clay
46-50	Sandy gravel

See attached well log (State Well No. 07S1W01M01A) for additional information.

***Groundwater Sensitivity (on a 1 to 4 scale, with 4 as the most sensitive)*:**

☐ 1 ☒ 2 ☐ 3 ☐ 4

***Number of water supply and monitoring wells within a 0.25 mile radius of the site*:**

Wells	Active	Destroyed
Domestic	NR*	NR
Municipal	1	NR
Agricultural	NR	NR
Contaminant Extraction	1	NR
Monitoring	29	3

* None recorded

Surface Waters: None within 1/4 mile radius of the site

Extent of Soil Contamination

The highest concentration of petroleum hydrocarbons detected in the soil at this site was 1,300 ppm TPHD at a depth of 9.5 feet bgs. The deepest soil sample containing detectable concentrations of petroleum hydrocarbons was 34 ppm TPHD at a depth of 19 feet bgs.

Sample Depth Ft.	Sample Location	TPHD	B	T	E	X
9.5	West end of tank	1300	ND**	0.0053	0.005	0.081
9.5	East end of tank	970	ND	ND	ND	ND
2	Product line	16	ND	0.0055	ND	ND
2	Product line	ND	ND	ND	ND	0.013
16.5	East end of tank	ND	ND	ND	ND	ND
17.8	East end of tank	ND	ND	ND	ND	ND
19.2	West end of tank	34	ND	ND	ND	0.007
19.3	West end of tank	ND	ND	ND	ND	ND
3.5	Product line	ND	ND	ND	ND	ND
3.5	Product line	ND	ND	ND	ND	ND
23.5	West end of tank	ND	ND	ND	ND	ND
23.5	West end of tank	ND	ND	ND	ND	ND
Detection Limit		1	0.005	0.005	0.005	0.005

All results in PPM.
**** None Detected**

Laboratory Certified by State: ☒ Yes ☐ No

Extent of Groundwater Contamination

Groundwater was not investigated at this site.

Beneficial Uses

The present and future beneficial uses of the groundwater aquifers underlying and adjacent to the site, as defined in the Regional Water Quality Control Board's (RWQCB) 1986 report, "Water Quality Control Plan—San Francisco Bay Region," include water supply for domestic, municipal, agricultural, and industrial uses.

Tank and Immediate Soil Removal or Remediation

The 5,000-gallon Diesel tank was last used 15 years ago and was removed on June 28, 1991. The tank was noted to be void of liquid upon removal. Holes were observed in the top and midsection of the tank, and in the product line.

Overexcavation of contaminated soil was performed on August 23 and September 7, 1991. About 140 cubic yards of soil were excavated and stockpiled on-site. Based upon results of overexcavation soil samplingwork, it appears that all contaminated soil was removed from the excavation pit. The approximate 140 cubic yards of excavated soil was treated on-site by spreading it into a 2-foot thick layer, watering it to keep it moist, and mixing it twice a month. This procedure was used to stimulate natural biodegradation of the contaminants. After treatment, nine discrete soil samples were collected, analyzed, and found to contain nondetectable concentrations of petroleum hydrocarbons. The soil currently remains above ground on-site and may be disposed on-site or at an off-site location. The soil may be disposed on-site because the soil was treated to nondetectable concentrations of contamination.

Verification Monitoring

Verification monitoring is not considered necessary at this site.

STAFF CONCLUSIONS

Based upon the relatively low permeability soils encountered and the analytical results of soil samples collected during tank excavation, overexcavation, and soil treatment work, District staff have concluded that this site does not appear to pose a threat to ground or surface waters.

The investigation was performed in accordance with state and local guidelines. It appears that the soil impacted by the release has been removed and treated, and therefore does not appear to be a threat to groundwater quality. Therefore, District staff will notify the Responsible Party of case closure.

Prepared by:

Cris Tulloch
Water Quality Specialist II
Groundwater Protection Division

8/13/92
Date

Reviewed by:

Kristina E. Traffas
Associate Civil Engineer
Groundwater Protection Division

August 14, 1992
Date

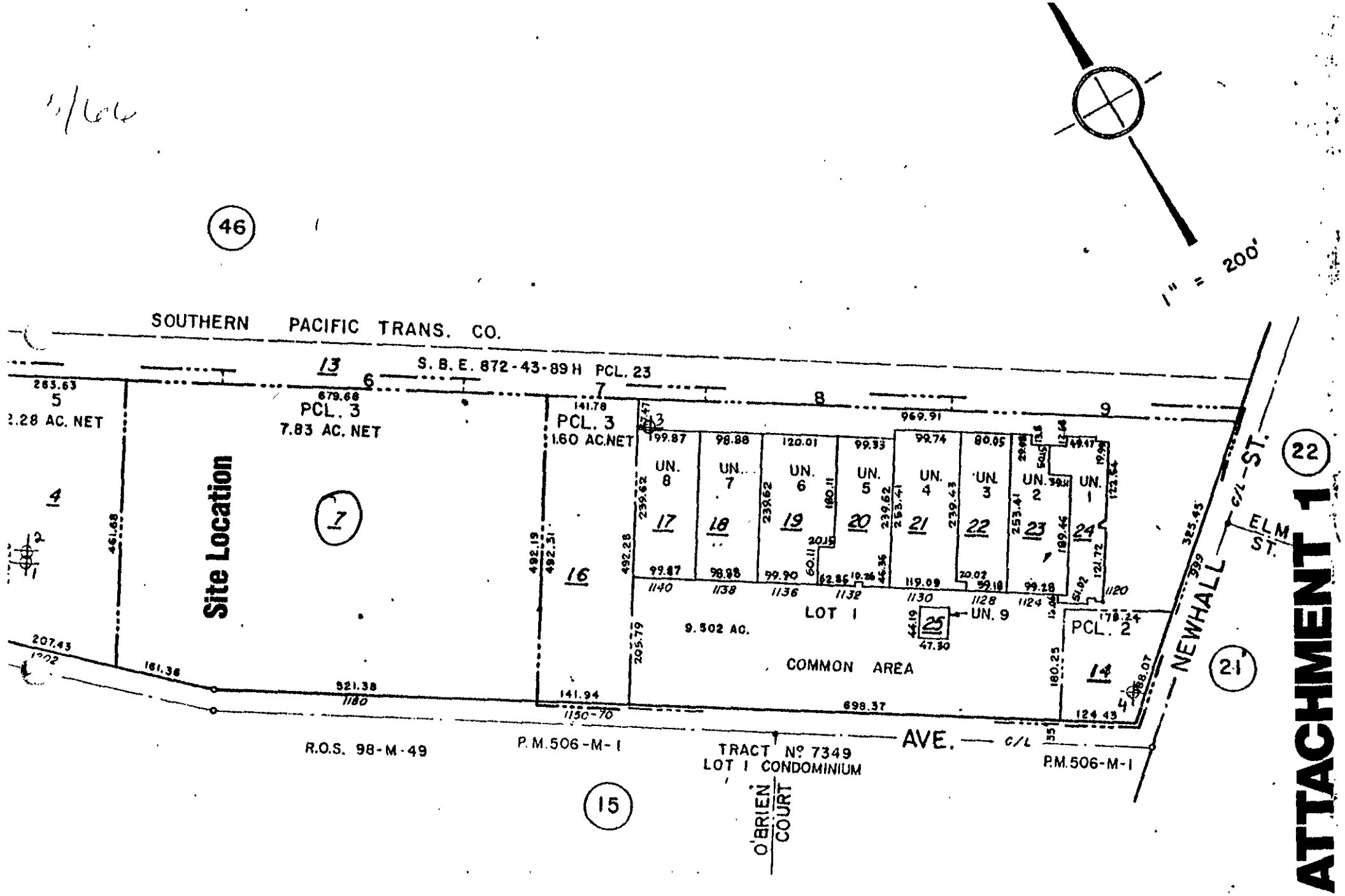
Approved by:

Belinda A. Allen
Supervising Engineer
Groundwater Protection Division

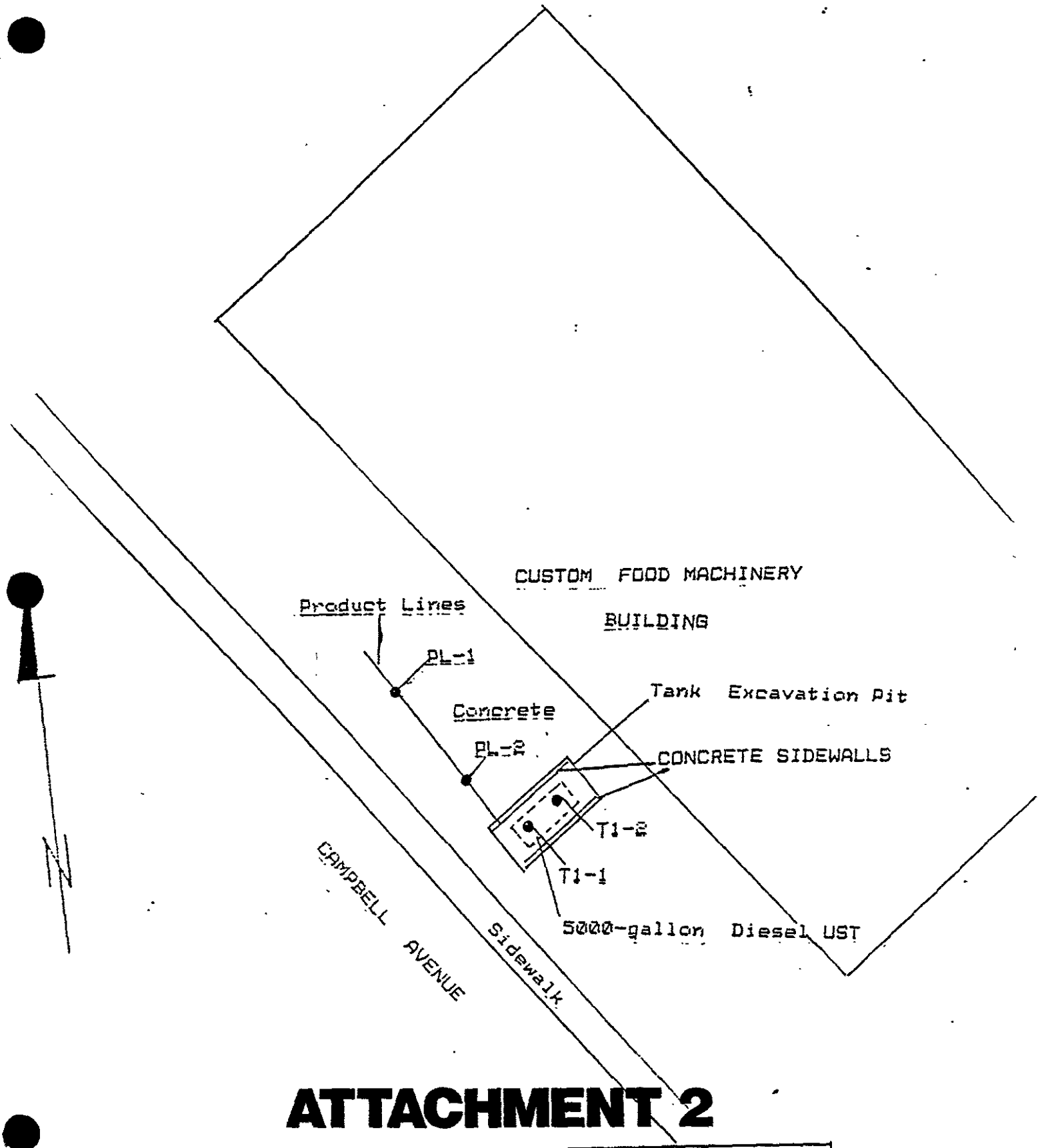
Aug. 17, 1992
Date

Attachments: 1. Site Vicinity Map 2. Site Map 3. Boring Log

1/66



ATTACHMENT 1



ATTACHMENT 2

1180 Campbell Avenue UST Removal SITE & SOIL SAMPLE LOCATION MAP		
Scale 1"=20' Date:5/23/91	FIGURE 1	Drawn by:TS Checked by:DS
VALLEY ENVIRONMENTAL SOLUTIONS		
Site Assessments		Soil/Water Cleanup

ORIGINAL
File with DWR

RECEIVED
OCT 26 1988
C.V.W.D.

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

No. 254710

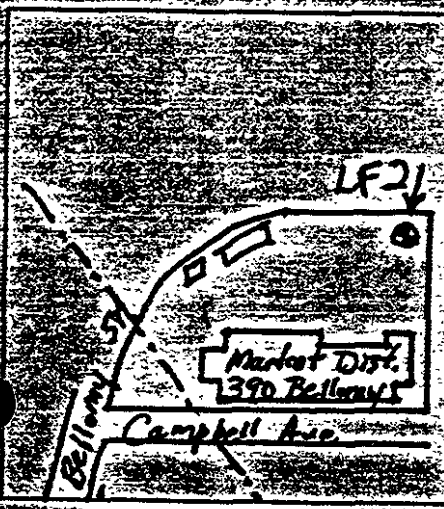
State Well No. 07S/1W01N01A

Other Well No.

Notice of Intent No.
Local Permit No. or Date 88W1789

(1) OWNER: Name Sobrato Development
Address 390 Bellomy Street
City Santa Clara, CA ZIP 94053

(2) LOCATION OF WELL (See instructions):
County Santa Clara Owner's Well Number LF-1
Well address if different from above
Township Range Section
Distance from cities, roads, railroads, fences, etc. Property on Santa Clara/San Jose city line — about 170-180 feet from Campbell Avenue, 10' from fence



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☒ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☒ (Describe) Monitoring

(5) EQUIPMENT:
Rotary ☒ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☒ No ☐ Size #3
Diameter of bore 8 inch
Packed from 36 ft to 48 ft

(7) CASING INSTALLED:
Steel ☐ Plastic ☒ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen

From ft	To ft	Dia in	Gage or Wall	From ft	To ft	Slot size
0	38	2	Sch 40	38	48	0.020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 34 ft
Were strata sealed against pollution? Yes ☒ No ☐ Interval 34-36 ft
Method of sealing bentonite pellets

(10) WATER LEVELS:
Depth of first water, if known 39 feet ft
Standing level after well completion not available at this time ft

(11) WELL TESTS:
Was well test made? Yes ☐ No ☒ If yes, by whom?
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test ft At end of test ft
Discharge gal/min after hours Water temperature
Chemical analysis made? Yes ☐ No ☐ If yes, by whom?
Was electric log made Yes ☐ No ☐ If yes, attach copy to this report

(12) WELL LOG: Total depth 48 ft Completed depth 48 ft

from ft	to ft	Formation (Describe by color, character, size or material)
0	1/2	Asphalt
1/2	1-1/2	fill gravel
1-1/2	5	Silty clay very dark brown slightly moist, stiff, moderately plastic, massive gravel in first 6 inches
5	10	color change to black at 5.5 feet color change to dark gray at 6.25 feet
10	15	color change to olive gray at 10.5 feet
15	20	color change to mottled olive gray at 15 feet
20	25	color change to light olive gray at 20 feet
25	30	no sample recovered
30	35	sandy clay, dark bluish gray, moist, massive, slightly stiff, slightly plastic containing abundant organic material
35	40	silty clay, light olive brown, moist, massive, moderately stiff, highly plastic, containing abundant organic materials first water at 39 feet
40	45	Clay becomes increasingly sandy below 40 feet. Silty sand, light olive brown, wet, denser, medium to very fine-grained sand, poorly sorted, minor amounts of clay. Increasing amounts of gravel
45	48	Sandy gravel, wet loose, gravel up to 2 inches in diameter, poorly sorted, course to fine-grained sand, poorly sorted

Work started Oct 27 19 88 Completed Oct 27 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed (Well Driller)
NAME Wayne Drilling (Person, firm, or corporation) (Typed or printed)
Address PO Box 726
City Lincoln, CA ZIP 95648
License No. 376345 Date of this report 10-21-88

DWR 188 (REV. 12-88) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

COMMERCIAL DEMO
NOT FOR PUBLIC USE
WWW.RECORDSEARCH.COM

ATTACHMENT 3