APPENDIX A

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Mar 2005

EPA 17th Street Plant

Production GAC Wells

EPA 3	209.844 AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	67.576	259.507	1B	0.000	870.637
2A	67.576	258.631	2B	0.000	893.632
3A	74.692	265.917	3B	0.000	918.530
Totals	**209.844 AF**	**784.055 AF**		**0.000 AF**	**2682.799 AF**

Vessels

TCE-In	0.5
TCE-Out	0.0
PCE-In	0.6
PCE-Out	0.0
Total	**1.1 ug/L**

lbs Removed 0.63

EPA South Plant and Waterman Towers

Production GAC Wells

EPA 2	180.399
EPA 4	192.039
EPA 5	198.028
Total	**570.466 AF**

Tower Wells		Wells		Towers	
Waterman	160.948	TCE+PCE-In	6.5	TCE+PCE-Out	0.0
30th St.	75.944	TCE+PCE-In	6.5	TCE+PCE-Out	0.0
South Total	**236.892 AF**				
Leroy	13.393	TCE+PCE-In	6.5	TCE+PCE-Out	0.0
31st St.	9.495	TCE+PCE-In	6.5	TCE+PCE-Out	0.0
North Total	**22.888 AF**				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	918.061	1B	76.170	848.985
2A	0.000	831.694	2B	75.376	841.068
3A	0.000	939.314	3B	75.975	822.504
4A	0.000	912.523	4B	76.134	854.542
5A	0.000	910.690	5B	76.453	800.435
6A	0.000	1076.964	6B	77.240	843.808
7A	0.000	983.488	7B	74.956	850.058
8A	0.000	1154.402	8B	85.704	979.280
Totals	**0.000 AF**	**7727.136 AF**		**618.008 AF**	**6840.680 AF**

Vessels

TCE-In	0.8
TCE-Out	0.0
PCE-In	2.5
PCE-Out	0.0
Total	**3.3 ug/L**

lbs Removed 5.54

Towers

#'s Removed Waterman	2.84
#'s Removed 30th St	1.34
#'s Removed Leroy	0.24
#'s Removed 31st St	0.17
Total pounds Removed Tower	**4.59**

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Mar 2005

EPA North Plant and Newmark Towers

Production GAC Wells		Tower Wells					
EPA 6	71.710	Newmark 1	2.925	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
EPA 7	184.520	Newmark 4	5.904	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
NM3	5.149	West Tower	8.829 AF				
		Newmark 2	3.877	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
Total	261.379 AF	North Total	3.877 AF				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	593.993	1B	40.677	217.332
2A	0.000	512.942	2B	37.982	205.876
3A	0.000	687.148	3B	42.334	221.106
4A	0.000	654.102	4B	43.849	231.457
5A	0.000	583.808	5B	42.826	212.458
6A	0.000	530.750	6B	40.920	221.409
7A	0.000	598.819	7B	38.902	204.259
Totals	0.000 AF	4161.562 AF		287.490 AF	1513.897 AF

Vessels				Towers	
TCE-In	0.5			#'s Removed Newmark 1	0.00
TCE-Out	0.0			#'s Removed Newmark 4	0.01
PCE-In	4.4			#'s Removed Newmark 2	0.01
PCE-Out	0.0				
Total	4.9 ug/L	lbs Removed	3.83	Total pounds Removed Tower	0.02

19th Street South Plant

Production GAC Wells	
19th St 1	140.831
19th St 2	58.852 AF
Mt Vernon	62.521
Total	262.204 AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	53.987	140.586	1B	0.000	582.289
2A	65.121	185.008	2B	0.000	520.507
3A	58.657	187.051	3B	0.000	646.754
4A	59.811	167.579	4B	0.000	645.996
Totals	237.576 AF	680.224 AF		0.000 AF	2395.546 AF

Vessels			
TCE-In	0.6		
TCE-Out	0.0		
PCE-In	6.4		
PCE-Out	0.0		
Total	7.0 ug/L	lbs Removed	4.52

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Mar 2005

EPA 19th Street North Plant

Production GAC Wells

EPA 1	159.777 AF
EPA 108	129.527 AF
EPA 109	86.214 AF
EPA 110	58.662 AF
EPA 111	27.399 AF
EPA 112	65.062 AF
Totals	**526.641 AF**

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	31.820	31.820	1B	0.000	0.000
2A	59.442	59.442	2B	0.000	0.000
3A	60.103	60.103	3B	0.000	0.000
4A	38.002	38.002	4B	0.000	0.000
5A	51.154	51.154	5B	0.000	0.000
6A	37.874	37.874	6B	0.000	0.000
7A	0.000	0.000	7B	0.000	0.000
8A	25.406	25.406	8B	0.000	0.000
9A	33.367	33.367	9B	0.000	0.000
10A	31.547	31.547	10B	0.000	0.000
11A	49.742	49.742	11B	0.000	0.000
12A	53.661	53.661	12B	0.000	0.000
13A	54.523	54.523	13B	0.000	0.000
14A	0.000	0.000	14B	0.000	0.000
Totals	**526.641 AF**	**526.641 AF**		**0.000 AF**	**0.000 AF**

Vessels

TCE-In	0.6
TCE-Out	0.0
PCE-In	6.4
PCE-Out	0.0
Total	**7.0 ug/L**

lbs Removed 10.02

Summary

Monthly		Year to Date	
Total AF Treated GAC	1879.559	**Total AF Treated GAC**	4342.849
Total AF Treated Towers	272.486	**Total AF Treated Towers**	813.779
Combined AF Treated	**2152.045**	**Combined AF Treated**	**5156.628**
Total lbs Removed GAC	24.5	**Total lbs Removed GAC**	51.9
Total lbs Removed Towers	4.6	**Total lbs Removed Towers**	11.9
Combined Pounds Removed	**29.1**	**Combined Pounds Removed**	**63.8**

EPA CLEAN UP
PRODUCTION WELL START UP/SHUTDOWN
Mar-05

WELL	DATE	START TIME	SHUT DOWN	DURATION	PURPOSE
None					

EPA TOTAL RUN TIME March Total 744 Hours	
Well	Total Run Hours
EPA 1	
EPA 2	
EPA 3	
EPA 4	
EPA 5	
EPA 108	
EPA 112	

MICHAEL LOWE
Water Utility
Operations Superintendent

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San Bernardino Municipal Water Department Water Quality Monthly Report
Newmark OU/Towers/19th St GAC
Month of April 2005

Waterman GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	Week 1 PCE (ug/L)	Week 1 TCE (ug/L)	Week 2 PCE (ug/L)	Week 2 TCE (ug/L)	Week 3 PCE (ug/L)	Week 3 TCE (ug/L)	Week 4 PCE (ug/L)	Week 4 TCE (ug/L)	Week 5 PCE (ug/L)	Week 5 TCE (ug/L)	NO_3 (mg/L)
EPA Well 02	4/26/2005	A			2.0	5.3	1.5											23.0
EPA Well 04	4/26/2005	A			<1.0	1.6	0.5											
EPA Well 05	4/26/2005	A			<1.0	<0.5	<0.5											
Combined Influent	4/26/2005					1.7	<0.5											
LEAD VESSEL 1B	4/26/2005		<1.1	<1.1	1.5			3.6	1.2	3.6	1.2	3.5	1.1	3.4	1.2	0.0	0.0	
LEAD VESSEL 2B	4/26/2005		<1.1	<1.1	12.0			2.7	1.0	3.1	1.1	2.8	1.1	2.8	1.0	0.0	0.0	
LEAD VESSEL 3B	4/26/2005		<1.1	<1.1	<1.0			3.5	1.3	3.5	1.2	3.5	1.2	3.4	1.2	0.0	0.0	
LEAD VESSEL 4B	4/26/2005		<1.1	<1.1	<1.0			3.8	1.2	4.0	1.2	3.8	1.2	3.8	1.2	0.0	0.0	
LEAD VESSEL 5B	4/26/2005		<1.1	<1.1	<1.0			3.9	1.3	4.0	1.3	3.7	1.2	3.8	1.3	0.0	0.0	
LEAD VESSEL 6B	4/26/2005		<1.1	<1.1	1.0			3.7	1.2	4.0	1.2	3.8	1.1	3.6	1.1	0.0	0.0	
LEAD VESSEL 7B	4/26/2005		<1.1	<1.1	<1.0			3.9	1.2	4.1	1.2	3.8	1.2	3.8	1.2	0.0	0.0	
LEAD VESSEL 8B	4/26/2005		<1.1	<1.1	<1.0			3.8	1.2	3.9	1.4	3.8	1.2	3.8	1.2	0.0	0.0	
Combined Effluent	4/26/2005		<1.1	<1.1	2.0			<0.5	0.8	<0.5	0.9	<0.5	0.8	<0.5	1.0	0.0	0.0	

Newmark GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	Week 1 PCE (ug/L)	Week 1 TCE (ug/L)	Week 2 PCE (ug/L)	Week 2 TCE (ug/L)	Week 3 PCE (ug/L)	Week 3 TCE (ug/L)	Week 4 PCE (ug/L)	Week 4 TCE (ug/L)	Week 5 PCE (ug/L)	Week 5 TCE (ug/L)	NO_3 (mg/L)
EPA Well 06	4/26/2005	A			<1.0	3.4	<0.5											25.0
EPA Well 07	4/26/2005	A			1.0	5.0	0.6											21.0
Newmark Well 03	4/26/2005	A			7.0	3.4	<0.5											
Combined Influent	4/26/2005					4.0	<0.5											
LEAD VESSEL 1B	4/26/2005		<1.1	<1.1	5.5			0.0	0.0	0.0	0.0	0.0	0.0	4.0	<0.5	0.0	0.0	
LEAD VESSEL 2B	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.8	0.0	0.0	
LEAD VESSEL 3B	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	4.8	1.1	0.0	0.0	
LEAD VESSEL 4B	4/26/2005		<1.1	<1.1	1.5			0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.1	0.0	0.0	
LEAD VESSEL 5B	4/26/2005		<1.1	<1.1	1.0			0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.9	0.0	0.0	
LEAD VESSEL 6B	4/26/2005		<1.1	<1.1	1.0			0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.9	0.0	0.0	
LEAD VESSEL 7B	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.9	0.0	0.0	
Combined Effluent	4/26/2005		<1.1	<1.1	2.0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.0	0.0	

17th Street GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	Week 1 PCE (ug/L)	Week 1 TCE (ug/L)	Week 2 PCE (ug/L)	Week 2 TCE (ug/L)	Week 3 PCE (ug/L)	Week 3 TCE (ug/L)	Week 4 PCE (ug/L)	Week 4 TCE (ug/L)	Week 5 PCE (ug/L)	Week 5 TCE (ug/L)	NO_3 (mg/L)
EPA Well 03	4/26/2005	A			<1.0	3.4	<0.5											
Combined Influent	4/26/2005					3.6	0.9											
LEAD VESSEL 1A	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.3	0.0	0.0	
LEAD VESSEL 2A	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.4	0.0	0.0	
LEAD VESSEL 3A	4/26/2005		<1.1	<1.1	<1.0			0.0	0.0	0.0	0.0	0.0	0.0	2.9	1.4	0.0	0.0	
Combined Effluent	4/26/2005		<1.1	<1.1	<1.0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.0	0.0	

19th Street SOUTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	Week 1 PCE (ug/L)	Week 1 TCE (ug/L)	Week 2 PCE (ug/L)	Week 2 TCE (ug/L)	Week 3 PCE (ug/L)	Week 3 TCE (ug/L)	Week 4 PCE (ug/L)	Week 4 TCE (ug/L)	Week 5 PCE (ug/L)	Week 5 TCE (ug/L)	NO_3 (mg/L)
19th Street Well 01	4/26/2005	A			<1.0	4.0	<0.5											
19th Street Well 02	4/26/2005	A			16.0	9.7	0.9											40.0
Combined Influent	4/26/2005					3.9	<0.5											
LEAD VESSEL 1A	4/26/2005		<1.1	<1.1	8.5			0.0	0.0	0.0	0.0	0.0	0.0	1.5	<0.5	0.0	0.0	
LEAD VESSEL 2A	4/26/2005		<1.1	<1.1	5.5			0.0	0.0	0.0	0.0	0.0	0.0	1.6	<0.5	0.0	0.0	
LEAD VESSEL 3A	4/26/2005		<1.1	<1.1	2.0			0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.6	0.0	0.0	
LEAD VESSEL 4A	4/26/2005		<1.1	<1.1	16.0			0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.6	0.0	0.0	
Combined Effluent	4/26/2005		<1.1	<1.1	3.0			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.0	0.0	