APENDIX A

DHS MONTHLY TREATMENT REPORT

CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT

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Director, Environmental
and Regulatory Compliance

October 10, 2006

"Trusted, Quality Service since 1905"

Ms. Yen Tran
Sanitary Engineer
State Department of Health Services
Drinking Water Field Operator Branch
464 W. 4th Street, Suite 437
San Bernardino, CA 92401

RE: SEPTEMBER 2006 MONTHLY SUMMARY TREATMENT REPORTS FOR SYSTEM NO. 3610039, WATER SUPPLY PERMIT NO. 03-13-99P-002

Dear Ms. Tran:

Enclosed are the monthly summary reports for each Granular Activated Carbon and Packed Tower Aeration facility. The required information is provided in two separate report formats: Information on well production, plant influent and effluent water flow, and amount of contaminant removed are covered in the September 2006 Operations Monthly Treatment Reports. Information on bacterial results and constituents of concern for each of the wells and treatment plants for the month of September 2006 is presented in the attached Water Quality Reports, Newmark OU/Towers/19th Street GAC.

It is my understanding the energy consumed for each is no longer of interest to DHS and is not required in the monthly reports.

300 North "D" Street, San Bernardino, California 92418 P.O. Box 710, 92402 Phone: (909) 384-5141
FACSIMILE NUMBERS: Administration: (909) 384-5215 Engineering: (909) 384-5532 Customer Service: (909) 384-7211
Corporate Yards: (909) 384-5260 Water Reclamation Plant: (909) 384-5258

Please contact me at (909) 384-5107 if additional information or modifications to the formats of the reports are desired.

Respectfully submitted,

John A. Perry, P.E.
Director, Water Utility

JAP:tal
Attach.

cc: Kim Hoang, Ph.D. (e-mailed w/attach)
Stacey R. Aldstadt (e-mailed w/attach)
Robin Ohama (e-mailed w/attach)
Mike Lowe (e-mailed w/attach)
Matthew Litchfield (e-mailed w/attach)
Valerie Housel (e-mailed w/attach)
Susan Troy (e-mailed w/attach)
Lana Kennerly (e-mailed w/attach)

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MUNICIPAL WATER DEPARTMENT

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

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

Reporting Period: Sept 2006

EPA 17th Street Plant

Production GAC Wells

EPA 003	99.777 AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	59.495	141.088	1B	0.000	596.009
2A	57.536	143.330	2B	0.000	587.466
3A	79.983	170.073	3B	0.000	600.316
Totals	**197.014 AF**	**454.491 AF**		**0.000 AF**	**1783.791 AF**

Vessels	
TCE-In	0.7
TCE-Out	0.0
PCE-In	3.3
PCE-Out	0.0
Total	**4.0 ug/L**

lbs Removed 2.14

EPA South Plant and Waterman Towers

Production GAC Wells

EPA 002	204.256
EPA 004	203.393
EPA 005	218.333
Total	**625.982 AF**

Tower Wells		Wells		Towers	
Waterman	287.945	TCE+PCE-In	4.5	TCE+PCE-Out	0.0
30th St.	259.252	TCE+PCE-In	4.5	TCE+PCE-Out	0.0
South Total	**547.197 AF**				
Leroy	180.877	TCE+PCE-In	4.5	TCE+PCE-Out	0.0
31st St.	168.140	TCE+PCE-In	4.5	TCE+PCE-Out	0.0
North Total	**349.017 AF**				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	1075.898	1B	53.508	235.737
2A	0.000	1037.317	2B	89.749	274.446
3A	0.000	1071.177	3B	52.867	230.443
4A	0.000	1030.841	4B	51.490	224.524
5A	0.000	1045.364	5B	77.704	244.990
6A	0.000	583.778	6B	94.577	262.283
7A	0.000	836.614	7B	53.136	249.648
8A	0.000	972.046	8B	61.021	300.745
Totals	**0.000 AF**	**7653.035 AF**		**534.052 AF**	**2022.816 AF**

Vessels	
TCE-In	0.6
TCE-Out	0.0
PCE-In	2.5
PCE-Out	0.0
Total	**3.1 ug/L**

lbs Removed 4.50

Towers	
#'s Removed Waterman	3.52
#'s Removed 30th St	3.17
#'s Removed Leroy	2.21
#'s Removed 31st St	2.06
Total pounds Removed Tower	10.96

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

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

Reporting Period: Sept 2006

EPA North Plant and Newmark Towers

Production GAC Wells		Tower Wells					
		Newmark 1	84.270	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
EPA 006	110.670	Newmark 4	250.643	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
EPA 007	178.586	West Tower	334.913 AF				
NM3	120.310	Newmark 2	185.099	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
Total	409.566 AF	North Total	185.099 AF				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	57.426	507.757	1B	0.000	0.000
2A	47.339	572.676	2B	0.000	0.000
3A	55.135	555.046	3B	0.000	0.000
4A	58.560	833.946	4B	0.000	0.000
5A	55.452	804.515	5B	0.000	0.000
6A	58.620	821.226	6B	0.000	0.000
7A	78.875	798.218	7B	0.000	0.000
Totals	411.407 AF	4893.384 AF		0.000 AF	0.000 AF

Vessels				Towers	
TCE-In	0.5			#'s Removed Newmark 1	0.11
TCE-Out	0.0			#'s Removed Newmark 4	0.34
PCE-In	3.8			#'s Removed Newmark 2	0.25
PCE-Out	0.0				
Total	4.3 ug/L	lbs Removed	4.81	Total pounds Removed Tower	0.71

19th Street South Plant

Production GAC Wells	
19th St 1	133.372
19th St 2	0.000 AF
Total	133.372 AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	704.081	1B	47.449	378.464
2A	0.000	762.205	2B	36.384	268.139
3A	0.000	795.884	3B	26.345	191.655
4A	0.000	758.694	4B	27.321	211.345
Totals	0.000 AF	3020.864 AF		137.499 AF	1049.603 AF

Vessels			
TCE-In	0.5		
TCE-Out	0.0		
PCE-In	4.4		
PCE-Out	0.0		
Total	4.9 ug/L	lbs Removed	1.83

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

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

Reporting Period: Sept 2006

EPA 19th Street North Plant

Production GAC Wells	
EPA 1	190.085 AF
EPA 108	197.156 AF
EPA 109	184.341 AF
EPA 110	198.939 AF
EPA 111	290.165 AF
EPA 112	202.599 AF
Totals	**1263.285 AF**

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	95.032	1679.622	1B	0.000	0.000
2A	110.645	1772.889	2B	0.000	0.000
3A	108.914	1925.346	3B	0.000	0.000
4A	101.245	1812.241	4B	0.000	0.000
5A	104.704	1943.895	5B	0.000	0.000
6A	93.572	2114.735	6B	0.000	0.000
7A	0.000	0.000	7B	0.000	0.000
8A	91.370	1638.174	8B	0.000	0.000
9A	103.276	1798.059	9B	0.000	0.000
10A	107.486	1782.265	10B	0.000	0.000
11A	100.659	1819.992	11B	0.000	0.000
12A	99.545	2003.908	12B	0.000	0.000
13A	114.385	1894.460	13B	0.000	0.000
14A	0.000	0.000	14B	0.000	0.000
Totals	**1230.833 AF**	**22185.586 AF**		**0.000 AF**	**0.000 AF**

Vessels			
TCE-In	0.8		
TCE-Out	0.0		
PCE-In	4.2		
PCE-Out	0.0		
Total	**5.0 ug/L**	**lbs Removed**	**16.72**

Summary Monthly		Year to Date	
Total AF Treated GAC	2510.805	**Total AF Treated GAC**	24183.765
Total AF Treated Towers	1416.226	**Total AF Treated Towers**	5863.073
Combined AF Treated	**3927.031**	**Combined AF Treated**	**30046.838**
Total lbs Removed GAC	30.0	**Total lbs Removed GAC**	265.7
Total lbs Removed Towers	11.7	**Total lbs Removed Towers**	58.0
Combined Pounds Removed	**41.7**	**Combined Pounds Removed**	**323.6**

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EPA
PRODUCTION WELL RUN TIME
Sep-06

September Total 720 Hours

Well	Total Run Hours
EPA 001	720
EPA 002	717
EPA 003	365
EPA 004	717
EPA 005	717
EPA 006	720
EPA 007	720
EPA 108	720
EPA 109	720
EPA 110	720
EPA 111	720
EPA 112	720
NEWMARK 3	720

MICHAEL LOWE
Water Utility
Operations Superintendent

cc: John Perry
Matt Litchfield
dbane@URSGREINER.com

San Bernardino Municipal Water Department Water Quality Monthly Report
Newmark OU/Towers/19th St GAC/Muscoy OU
Month of September 2006

						Week 1-9/07/06		Week 2-9/14/06		Week 3-9/21/06		Week 4-9/28/06		Week 5		
Waterman GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO_3 (mg/L)
EPA 002	9/14/2006	A			<1.0											
EPA 004	9/14/2006	A			<1.0											
EPA 005	9/14/2006	A			<1.0											
Combined Influent	9/14/2006							2.4	0.7							
LEAD VESSEL 1B	9/14/2006		<1.1	<1.1	1.0	NM	NM	1.7	1.1	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2B	9/14/2006		<1.1	<1.1	3.0	NM	NM	0.6	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.2	1.0	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4B	9/14/2006		<1.1	<1.1	1.0	NM	NM	2.3	1.3	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 5B	9/14/2006		<1.1	<1.1	1.5	NM	NM	0.9	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 6B	9/14/2006		<1.1	<1.1	1.0	NM	NM	0.7	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 7B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.1	1.1	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 8B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.4	1.0	NM	NM	NM	NM	NM	NM	
Combined Effluent	9/14/2006		<1.1	<1.1	6.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

						Week 1-9/07/06		Week 2-9/14/06		Week 3-9/21/06		Week 4-9/28/06		Week 5		
Newmark GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO_3 (mg/L)
EPA 006	9/14/2006	A			1.0											
EPA 007	9/14/2006	A			1.0											
Newmark Well 03	9/14/2006	A			1.0											
Combined Influent	9/14/2006							1.6	<0.5							
LEAD VESSEL 1A	9/14/2006		<1.1	<1.1	<1.0	3.9	0.7	3.5	0.7	4.6	0.8	3.8	0.8	NM	NM	
LEAD VESSEL 2A	9/14/2006		<1.1	<1.1	<1.0	2.8	0.6	2.1	0.5	5.1	0.7	4.2	0.6	NM	NM	
LEAD VESSEL 3A	9/14/2006		<1.1	<1.1	1.0	4.4	0.8	4.0	0.8	4.9	0.9	4.3	0.8	NM	NM	
LEAD VESSEL 4A	9/14/2006		<1.1	<1.1	<1.0	3.2	0.6	3.6	0.6	3.9	0.7	3.0	0.7	NM	NM	
LEAD VESSEL 5A	9/14/2006		<1.1	<1.1	<1.0	4.0	0.6	4.6	0.7	5.1	0.8	4.0	0.7	NM	NM	
LEAD VESSEL 6A	9/14/2006		<1.1	<1.1	1.0	3.6	0.6	4.3	0.7	4.5	0.7	3.5	0.6	NM	NM	
LEAD VESSEL 7A	9/14/2006		<1.1	<1.1	1.0	2.6	0.6	3.1	0.7	3.6	0.6	2.8	0.5	NM	NM	
Combined Effluent	9/14/2006		<1.1	<1.1	1.0	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	NM	NM	

						Week 1-9/07/06		Week 2-9/14/06		Week 3-9/21/06		Week 4-9/28/06		Week 5		
17th Street GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO_3 (mg/L)
EPA 003	9/14/2006	A			1.0											
Combined Influent	9/14/2006							3.4	0.7							
LEAD VESSEL 1A	9/14/2006		<1.1	<1.1	1.0	NM	NM	2.2	1.2	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2A	9/14/2006		<1.1	<1.1	2.5	NM	NM	2.1	1.3	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	<0.5	<0.5	NM	NM	NM	NM	NM	NM	
Combined Effluent	9/14/2006		<1.1	<1.1	4.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

						Week 1-9/07/06		Week 2-9/14/06		Week 3-9/21/06		Week 4-9/28/06		Week 5		
19th Street SOUTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO_3 (mg/L)
19th Street Well 01	9/14/2006	A			<1.0											
19th Street Well 02	9/14/2006	NM			NM											
Combined Influent	9/14/2006							3.7	<0.5							
LEAD VESSEL 1B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.9	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.7	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.2	0.8	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4B	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.6	0.7	NM	NM	NM	NM	NM	NM	
Combined Effluent	9/14/2006	A			<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NM	NM	

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San Bernardino Municipal Water Department Water Quality Monthly Report
Newmark OU/Towers/19th St GAC/Muscoy OU
Month of September 2006

						Week 1-9/07/06		Week 2-9/14/06		Week 3-9/21/06		Week 4-9/28/06		Week 5		
19th Street NORTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	PCE (ug/L)	TCE (ug/L)	NO_3 (mg/L)
EPA 001	9/14/2006	A			<1.0											
EPA 108	9/14/2006	A			<1.0											
EPA 109	9/14/2006	A			6.0											
EPA 110	9/14/2006	A			1.0											
EPA 111	9/14/2006	A			<1.0											
EPA 112	9/14/2006	A			1.0											
Combined Influent	9/14/2006							3.6	0.8							
LEAD VESSEL 1A	9/14/2006		<1.1	<1.1	1.0	NM	NM	2.3	0.8	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	2.7	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	3.5	1.1	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	3.5	1.0	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 5A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	3.4	0.95	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 6A	9/14/2006		<1.1	<1.1	1.0	NM	NM	3.0	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 8A	9/14/2006		<1.1	<1.1	1.0	NM	NM	2.2	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 9A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	3.2	1.0	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 10A	9/14/2006		<1.1	<1.1	1.5	NM	NM	3.1	1.0	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 11A	9/14/2006		<1.1	<1.1	1.0	NM	NM	3.1	1.0	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 12A	9/14/2006		<1.1	<1.1	<1.0	NM	NM	3.1	0.9	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 13A	9/14/2006		<1.1	<1.1	1.0	NM	NM	2.8	0.8	NM	NM	NM	NM	NM	NM	
Combined Effluent	9/14/2006		<1.1	<1.1	<1.0	<0.5	<0.5	<0.5	<0.5	0.6	0.6	<0.5	<0.5	NM	NM	

Waterman Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	FB
Waterman Combined Tower Influent	9/12/2006					3.9	0.6	<0.5	<0.5
Waterman N. Tower Effluent	9/12/2006	A			1.0	<0.5	<0.5	<0.5	<0.5
Waterman S. Tower Effluent	9/12/2006	A			2.0	<0.5	<0.5	<0.5	<0.5

Newmark Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	FB
Newmark W. Tower Influent	9/12/2006					<0.5	<0.5	<0.5	<0.5
Newmark W. Tower Effluent	9/12/2006	A			2.0	<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Influent	9/12/2006					<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Effluent	9/12/2006	A			29.0	<0.5	<0.5	<0.5	<0.5

NOTE: If any VOC contaminant is detected in the Towers' Effluent Samples, the laboratory report(s) will be attached for DHS review.

NM = Not Monitored