

Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200803766	07312100					METALS-TUL-D:						
		9/19/2008	9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.08	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper		0.17	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese		0.16	mg/L	0.0001	0.0001	200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200803766	07312100					METALS-TULSA:						
		9/19/2008	9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total		0.08	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total		0.17	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.52	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total		0.1	mg/L	0.0001	0.0001	200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	15:40	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			9/29/2008	11:12	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740

Susie Southwell

Laboratory Authorized Signature



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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Includes data for Silica, Salts-Tulsa, and Metals-Tul-D.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200803767	07311900	9/19/2008	9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Zinc		0.06	mg/L	0.0006	0.0006	200.7/6010B
200803767	07311900					METALS-TULSA:						
		9/19/2008	9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total		0.12	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.32	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total		0.1	mg/L	0.0006	0.0006	200.7/6010B
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	17:45	OL	Selenium, Dissolved	<	0.00576	mg/l	0.0014	0.0056	EPA_7440
			9/29/2008	12:43	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		4.9	mg/l	0.006	0.006	200.7/6010B
200803767	07311900					SALTS-TULSA:						
		9/19/2008	9/26/2008	17:30	JL	Calcium, Dissolved		453	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		127	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		0.72	mg/L	0.0096	0.0096	200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		20.8	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		2791	mg/L	0.0018	0.0018	200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		1963	mg/l	0.06	0.06	200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		87	mg/l	2	2	EPA_310.1
			10/2/2008	14:25	OP	Chloride		3749	mg/l	0.383	0.383	EPA 9253
			9/19/2008	12:20	B/S	Dissolved Oxygen		6.3	mg/l	0.1	0.1	EPA_360.1
			10/9/2008	9:40	MY	Fluoride	J	1.14	mg/L	0.04	0.04	EPA 340.1

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis Parameter	Q	Results	Units	MDL	SQL	Method
200803767	07311900	9/19/2008	9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			9/19/2008	12:20	B/J	pH		7.8	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		1600	mg/l	1.2	1.2	EPA_375.2
			9/24/2008	11:45	SS	Total Dissolved Solids		8504	mg/l	5.5	5.5	EPA_160.1
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M
			9/24/2008	11:30	SS	Total Suspended Solids		32	mg/l	1.7	1.7	EPA_160.2
			9/29/2008	14:43	SS	Turbidity	B	63.3	NTU	0.078	0.078	EPA_180.1
200803768	07311800	9/19/2008	METALS-TUL-D:									
			9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.12	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
9/26/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B			
200803768	07311800	9/19/2008	METALS-TULSA:									
			9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total		0.14	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total		0.08	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.22	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B			

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200803768	07311800	9/19/2008	9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total		0.06	mg/L	0.0006	0.0006	200.7/6010B
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	16:01	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.0014	EPA_7440
			9/29/2008	11:18	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		8.5	mg/l	0.006	0.006	200.7/6010B
200803768	07311800	9/19/2008	SALTS-TULSA:									
			9/26/2008	17:30	JL	Calcium, Dissolved		196	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		37.6	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		0.49	mg/L	0.0096	0.0096	200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		7.3	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		124	mg/L	0.0018	0.0018	200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		757	mg/l	0.06	0.06	200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		63	mg/l	2	2	EPA_310.1
			10/2/2008	14:25	OP	Chloride		207	mg/l	0.383	0.383	EPA_9253
			9/19/2008	13:50	B/S	Dissolved Oxygen		5.5	mg/l	0.1	0.1	EPA_360.1
			10/9/2008	9:40	MY	Fluoride	J	0.69	mg/L	0.04	0.04	EPA_340.1
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			9/19/2008	13:50	B/J	pH		7.4	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		650	mg/l	1.2	1.2	EPA_375.2
			9/24/2008	11:45	SS	Total Dissolved Solids		1348	mg/l	5.5	5.5	EPA_160.1
9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			
9/24/2008	11:30	SS	Total Suspended Solids		9	mg/l	1.7	1.7	EPA_160.2			
9/29/2008	14:43	SS	Turbidity	B	29.9	NTU	0.078	0.078	EPA_180.1			
200803768	07311800	9/19/2008	PEST-OC-A:									
			10/1/2008	16:21	BS	tcmx (Surr)		70	%Rec	70		EPA_8081A
			10/1/2008		BS	Alpha-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			10/1/2008		BS	Beta-Bhc	U	BDL	ug/l	0.06	0.06	EPA_8081A
	10/1/2008		BS	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A		

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200803768	07311800	9/19/2008	10/1/2008		BS	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			10/1/2008		BS	Heptachlor	U	BDL	ug/l	0.05	0.05 EPA_8081A
			10/1/2008		BS	Aldrin	U	BDL	ug/l	0.05	0.05 EPA_8081A
			10/1/2008		BS	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			10/1/2008		BS	Chlordane	U	BDL	ug/l	0.07	0.07 EPA_8081A
			10/1/2008		BS	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			10/1/2008		BS	Dieldrin	U	BDL	ug/l	0.08	0.08 EPA_8081A
			10/1/2008		BS	Endrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			10/1/2008		BS	Endosulfan II	U	BDL	ug/l	0.19	0.19 EPA_8081A
			10/1/2008		BS	Endrin Aldehyde	U	BDL	ug/l	0.08	0.08 EPA_8081A
			10/1/2008		BS	Methoxychlor	U	BDL	ug/l	0.12	0.12 EPA_8081A
			10/1/2008		BS	Endosulfan Sulfate	U	BDL	ug/l	0.11	0.11 EPA_8081A
			10/1/2008		BS	Endrin Ketone	U	BDL	ug/l	0.1	0.1 EPA_8081A
			10/1/2008		BS	1,2-dcbpl (Surr)	Q	66	%Rec	70	70 EPA_8081A
			10/1/2008		BS	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A
200803769	07311700	9/19/2008	METALS-TUL-D:								
			9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.09	mg/L	0.0006	0.0006 200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/26/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001 200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B			
9/26/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006 200.7/6010B			
200803769	07311700	9/19/2008	METALS-TULSA:								
			9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B

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200803769	07311700	9/19/2008	9/29/2008		JL	Barium, Total		0.09	mg/L	0.0006	0.0006	200.7/6010B			
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B			
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B			
			9/29/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B			
			9/29/2008		JL	Iron, Total		0.12	mg/L	0.0008	0.0008	200.7/6010B			
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B			
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B			
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B			
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B			
			9/29/2008		JL	Zinc, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B			
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1			
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1			
			10/2/2008	17:48	OL	Selenium, Dissolved	<	0.00576	mg/l	0.0014	0.0056	EPA_7440			
			9/29/2008	11:21	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740			
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		2.57	mg/l	0.006	0.006	200.7/6010B			
			200803769	07311700	9/19/2008	SALTS-TULSA:									
						9/26/2008	17:30	JL	Calcium, Dissolved		321.7	mg/L	0.0039	0.0039	200.7/6010B
9/26/2008		JL				Magnesium, Dissolved		81.8	mg/L	0.0006	0.0006	200.7/6010B			
9/26/2008		JL				Phosphorus, Total		0.64	mg/L	0.0096	0.0096	200.7/6010B			
9/26/2008		JL				Potassium, Dissolved		14.2	mg/L	0.0009	0.0009	200.7/6010B			
9/26/2008		JL				Sodium, Dissolved		1288	mg/L	0.0018	0.0018	200.7/6010B			
9/26/2008	17:30	JL				Total Hardness		1306	mg/l	0.06	0.06	200.7/6010B			
10/2/2008	14:30	op				Total Alkalinity		49.6	mg/l	2	2	EPA_310.1			
10/2/2008	14:25	OP				Chloride		1899	mg/l	0.383	0.383	EPA 9253			
9/19/2008	14:20	B/S				Dissolved Oxygen		6.14	mg/l	0.1	0.1	EPA_360.1			
10/9/2008	9:40	MY				Fluoride	J	1.19	mg/L	0.04	0.04	EPA 340.1			
9/25/2008	10:51	BS				Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3			
9/19/2008	14:20	B/J				pH		7.8	s.u.			EPA_150.1			
9/23/2008	9:00	BS				Sulfate		1050	mg/l	1.2	1.2	EPA_375.2			
9/24/2008	11:45	SS				Total Dissolved Solids		4808	mg/l	5.5	5.5	EPA_160.1			
9/29/2008	9:45	OP				Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			

Susie Southwell

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Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803769	07311700	9/19/2008	9/24/2008	11:30	SS	Total Suspended Solids	11		mg/l	1.7	1.7 EPA_160.2
			9/29/2008	14:43	SS	Turbidity	B	20.6	NTU	0.078	0.078 EPA_180.1
200803770	07311630					METALS-TUL-D:					
		9/19/2008	9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/26/2008		JL	Dissolved Barium	U	BDL	mg/L	0.0006	0.0006 200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/26/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001 200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/26/2008		JL	Dissolved Zinc		0.09	mg/L	0.0006	0.0006 200.7/6010B
200803770	07311630					METALS-TULSA:					
		9/19/2008	9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/29/2008		JL	Barium, Total	U	BDL	mg/L	0.0006	0.0006 200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/29/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/29/2008		JL	Iron, Total		0.12	mg/L	0.0008	0.0008 200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001 200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/29/2008		JL	Zinc, Total		0.14	mg/L	0.0006	0.0006 200.7/6010B
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			10/2/2008	17:51	OL	Selenium, Dissolved	<	0.00576	mg/l	0.0014	0.0056 EPA_7440

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Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200803770	07311630	9/19/2008	9/29/2008	11:24	OL	Selenium	U	BDL	mg/l	0.0014	0.0014	EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		9.5	mg/l	0.006	0.006	200.7/6010B
200803770	07311630					SALTS-TULSA:						
		9/19/2008	9/26/2008	17:30	JL	Calcium, Dissolved		736	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		174	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		0.89	mg/L	0.0096	0.0096	200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		19.1	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		2544	mg/L	0.0018	0.0018	200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		2903	mg/l	0.06	0.06	200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		135	mg/l	2	2	EPA_310.1
			10/2/2008	14:25	OP	Chloride		3409	mg/l	0.383	0.383	EPA 9253
			9/19/2008	15:28	B/S	Dissolved Oxygen		10.85	mg/l	0.1	0.1	EPA_360.1
			10/9/2008	9:40	MY	Fluoride		1.4	mg/L	0.04	0.04	EPA 340.1
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			9/19/2008	15:28	B/J	pH		7.9	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		2350	mg/l	1.2	1.2	EPA_375.2
			9/24/2008	11:45	SS	Total Dissolved Solids		9280	mg/l	5.5	5.5	EPA_160.1
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M
			9/24/2008	11:30	SS	Total Suspended Solids		11	mg/l	1.7	1.7	EPA_160.2
			9/29/2008	14:43	SS	Turbidity	B	10.4	NTU	0.078	0.078	EPA_180.1
200803771	07311600					METALS-TUL-D:						
		9/19/2008	9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.1	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B

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TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method
200803771	07311600	9/19/2008	9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/26/2008		JL	Dissolved Zinc		0.15	mg/L	0.0006	0.0006 200.7/6010B
200803771	07311600					METALS-TULSA:					
		9/19/2008	9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/29/2008		JL	Barium, Total		0.1	mg/L	0.0006	0.0006 200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
			9/29/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/29/2008		JL	Iron, Total		0.15	mg/L	0.0008	0.0008 200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009 200.7/6010B
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001 200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
			9/29/2008		JL	Zinc, Total		0.24	mg/L	0.0006	0.0006 200.7/6010B
			9/24/2008	14:20	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002 EPA_245.1
			10/2/2008	17:54	OL	Selenium, Dissolved	<	0.00864	mg/l	0.0014	0.0084 EPA_7440
			9/29/2008	11:36	OL	Selenium	<	0.00432	mg/l	0.0014	0.0042 EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		0.9	mg/l	0.006	0.006 200.7/6010B
200803771	07311600					SALTS-TULSA:					
		9/19/2008	9/26/2008	17:30	JL	Calcium, Dissolved		667	mg/L	0.0039	0.0039 200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		187.8	mg/L	0.0006	0.0006 200.7/6010B
			9/26/2008		JL	Phosphorus, Total		1.34	mg/L	0.0096	0.0096 200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		24.1	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		5198	mg/L	0.0018	0.0018 200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		2834	mg/l	0.06	0.06 200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		90.6	mg/l	2	2 EPA_310.1
			10/2/2008	14:25	OP	Chloride		6328	mg/l	0.383	0.383 EPA 9253
			9/19/2008	16:54	B/S	Dissolved Oxygen		12.3	mg/l	0.1	0.1 EPA_360.1

Susie Southwell

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TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL Method	
200803771	07311600	9/19/2008	10/9/2008	9:40	MY	Fluoride		1.5	mg/L	0.04	0.04 EPA 340.1	
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3	
			9/19/2008	16:54	B/J	pH		8.1	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		2100	mg/l	1.2	1.2 EPA_375.2	
			9/24/2008	11:45	SS	Total Dissolved Solids		13848	mg/l	5.5	5.5 EPA_160.1	
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M	
			9/24/2008	11:30	SS	Total Suspended Solids		10	mg/l	1.7	1.7 EPA_160.2	
			9/29/2008	14:43	SS	Turbidity	B	7.7	NTU	0.078	0.078 EPA_180.1	
200803772	07311782	9/19/2008	METALS-TUL-D:									
			9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.05	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper		0.13	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese		0.1	mg/L	0.0001	0.0001	200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B			
9/26/2008		JL	Dissolved Zinc		1.08	mg/L	0.0006	0.0006	200.7/6010B			
200803772	07311782	9/19/2008	METALS-TULSA:									
			9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total		0.05	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total		0.08	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.33	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
9/29/2008		JL	Manganese, Total		0.09	mg/L	0.0001	0.0001	200.7/6010B			

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TULSA, OK 74128-4609

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Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis Parameter	Q	Results	Units	MDL	SQL	Method
200803772	07311782	9/19/2008	9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total		1.36	mg/L	0.0006	0.0006	200.7/6010B
			10/7/2008	13:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	17:57	OL	Selenium, Dissolved	<	0.0288	mg/l	0.0014	0.028	EPA_7440
			9/29/2008	12:46	OL	Selenium	<	0.00432	mg/l	0.0014	0.0042	EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		8.99	mg/l	0.006	0.006	200.7/6010B
200803772	07311782	9/19/2008	SALTS-TULSA:									
			9/26/2008	17:30	JL	Calcium, Dissolved		1348	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		450.7	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		1.89	mg/L	0.0096	0.0096	200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		128.9	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		20650	mg/L	0.0018	0.0018	200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		5554	mg/l	0.06	0.06	200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		110	mg/l	2	2	EPA_310.1
			10/2/2008	14:25	OP	Chloride		20554	mg/l	0.383	0.383	EPA_9253
			9/19/2008	18:30	B/S	Dissolved Oxygen		9.2	mg/l	0.1	0.1	EPA_360.1
			10/9/2008	9:40	MY	Fluoride		1.9	mg/L	0.04	0.04	EPA_340.1
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			9/19/2008	18:30	B/J	pH		7.1	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		3250	mg/l	1.2	1.2	EPA_375.2
			9/24/2008	11:45	SS	Total Dissolved Solids		38804	mg/l	5.5	5.5	EPA_160.1
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	J	0.84	mg/l	0.4	0.4	EPA_351.3M
9/25/2008	15:00	SS	Total Suspended Solids		7	mg/l	1.7	1.7	EPA_160.2			
9/29/2008	14:43	SS	Turbidity	B	5.6	NTU	0.078	0.078	EPA_180.1			
200803773	07311783	9/19/2008	METALS-TUL-D:									
			9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium	U	BDL	mg/L	0.0006	0.0006	200.7/6010B

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Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method	
200803773	07311783	9/19/2008	9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese		0.32	mg/L	0.0001	0.0001	200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Zinc		0.55	mg/L	0.0006	0.0006	200.7/6010B
200803773	07311783	9/19/2008	METALS-TULSA:									
			9/29/2008	15:30	JL	Arsenic, Total		0.16	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total		0.06	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.57	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total		0.39	mg/L	0.0001	0.0001	200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total		0.75	mg/L	0.0006	0.0006	200.7/6010B
			10/7/2008	13:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	16:16	OL	Selenium, Dissolved	<	0.0288	mg/l	0.0014	0.028	EPA_7440
9/29/2008	11:41	OL	Selenium	<	0.028	mg/l	0.0014	0.028	EPA_7740			
9/29/2008	15:30	JL	Silicon Dioxide (silica)		14.5	mg/l	0.006	0.006	200.7/6010B			
200803773	07311783	9/19/2008	SALTS-TULSA:									
			9/26/2008	17:30	JL	Calcium, Dissolved		1430	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		440.1	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		1.62	mg/L	0.0096	0.0096	200.7/6010B

Susie Southwell

Laboratory Authorized Signature

Red River

Environmental Laboratory and Consulting Company

Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200803773	07311783	9/19/2008	9/26/2008		JL	Potassium, Dissolved		103.8	mg/L	0.0009	0.0009 200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		17010	mg/L	0.0018	0.0018 200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		5957	mg/l	0.06	0.06 200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		162	mg/l	2	2 EPA_310.1
			10/2/2008	14:25	OP	Chloride		17335	mg/l	0.383	0.383 EPA 9253
			9/19/2008	18:45	B/S	Dissolved Oxygen		11.3	mg/l	0.1	0.1 EPA_360.1
			10/9/2008	9:40	MY	Fluoride		1.88	mg/L	0.04	0.04 EPA 340.1
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3
			9/19/2008	18:45	B/J	pH		7.1	s.u.		EPA_150.1
			9/23/2008	9:00	BS	Sulfate		3550	mg/l	1.2	1.2 EPA_375.2
			9/24/2008	11:45	SS	Total Dissolved Solids		33456	mg/l	5.5	5.5 EPA_160.1
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M
			9/25/2008	15:00	SS	Total Suspended Solids		21	mg/l	1.7	1.7 EPA_160.2
			9/29/2008	14:43	SS	Turbidity	B	17.8	NTU	0.078	0.078 EPA_180.1
			200803774	07308500	9/19/2008	METALS-TUL-D:					
9/26/2008	15:40	JL				Dissolved Arsenic	U	BDL	mg/L	0.009	0.009 200.7/6010B
9/26/2008		JL				Dissolved Barium		0.11	mg/L	0.0006	0.0006 200.7/6010B
9/26/2008		JL				Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
9/26/2008		JL				Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009 200.7/6010B
9/26/2008		JL				Dissolved Copper	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
9/26/2008		JL				Dissolved Iron	U	BDL	mg/L	0.0008	0.0008 200.7/6010B
9/26/2008		JL				Dissolved Lead	U	BDL	mg/L	0.009	0.009 200.7/6010B
9/26/2008		JL				Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001 200.7/6010B
9/26/2008		JL				Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069 200.7/6010B
9/26/2008		JL				Dissolved Silver	U	BDL	mg/L	0.0003	0.0003 200.7/6010B
9/26/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006 200.7/6010B			
200803774	07308500	9/19/2008	METALS-TULSA:								
			9/29/2008	15:30	JL	Arsenic, Total		0.25	mg/L	0.009	0.009 200.7/6010B
			9/29/2008		JL	Barium, Total		0.22	mg/L	0.0006	0.0006 200.7/6010B

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ODEQ ID # 9953

To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 9/19/2008

Project Name: SEPT WATER QUALITY MONITORING

Report Date: 10/9/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL Method	
200803774	07308500	9/19/2008	9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total		0.12	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total		0.96	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total		0.27	mg/L	0.0001	0.0001	200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			10/7/2008	13:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	16:18	OL	Selenium, Dissolved	<	0.0288	mg/l	0.0014	0.028	EPA_7440
			9/29/2008	11:44	OL	Selenium	<	0.028	mg/l	0.0014	0.028	EPA_7740
			9/29/2008	15:30	JL	Silicon Dioxide (silica)		14.9	mg/l	0.006	0.006	200.7/6010B
			200803774	07308500	9/19/2008	SALTS-TULSA:						
9/26/2008	17:30	JL				Calcium, Dissolved		234.6	mg/L	0.0039	0.0039	200.7/6010B
9/26/2008		JL				Magnesium, Dissolved		52.5	mg/L	0.0006	0.0006	200.7/6010B
9/26/2008		JL				Phosphorus, Total		1.1	mg/L	0.0096	0.0096	200.7/6010B
9/26/2008		JL				Potassium, Dissolved		12.5	mg/L	0.0009	0.0009	200.7/6010B
9/26/2008		JL				Sodium, Dissolved		657	mg/L	0.0018	0.0018	200.7/6010B
9/26/2008	17:30	JL				Total Hardness		1002	mg/l	0.06	0.06	200.7/6010B
10/2/2008	14:30	op				Total Alkalinity		147	mg/l	2	2	EPA_310.1
10/8/2008	15:20	OP				Chloride		842	mg/l	0.383	0.383	EPA_9253
9/19/2008	10:25	B/S				Dissolved Oxygen		6.7	mg/l	0.1	0.1	EPA_360.1
10/9/2008	9:40	MY				Fluoride	J	0.68	mg/L	0.04	0.04	EPA_340.1
9/25/2008	10:51	BS				Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
9/19/2008	10:25	B/J				pH		7.3	s.u.			EPA_150.1
9/23/2008	9:00	BS				Sulfate		700	mg/l	1.2	1.2	EPA_375.2
9/26/2008	10:45	SS				Total Dissolved Solids		2670	mg/l	5.5	5.50	EPA_160.1
9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	J	0.56	mg/l	0.4	0.4	EPA_351.3M			
9/25/2008	15:00	SS	Total Suspended Solids		583	mg/l	1.7	1.7	EPA_160.2			

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Analysis Parameter	Q	Results	Units	MDL	SQL	Method
200803774	07308500	9/19/2008	9/29/2008	14:43	SS	Turbidity	B	589	NTU	0.078	0.078	EPA_180.1
200803775	07311700					METALS-TUL-D:						
		9/19/2008	9/26/2008	15:40	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Barium		0.08	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Dissolved Copper	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/26/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/26/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			9/26/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/26/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/26/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200803775	07311700					METALS-TULSA:						
		9/19/2008	9/29/2008	15:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Barium, Total		0.08	mg/L	0.0006	0.0006	200.7/6010B
			9/29/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			9/29/2008		JL	Copper, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			9/29/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			9/29/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			9/29/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			9/29/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			9/29/2008		JL	Zinc, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			10/7/2008	13:00	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			9/24/2008	14:20	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			10/2/2008	16:27	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.007	EPA_7440
			9/29/2008	11:47	OL	Selenium	<	0.0072	mg/l	0.0014	0.007	EPA_7740

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200803775	07311700	9/19/2008	9/29/2008	15:30	JL	Silicon Dioxide (silica)		1.92	mg/l	0.006	0.006	200.7/6010B
200803775	07311700					SALTS-TULSA:						
		9/19/2008	9/26/2008	17:30	JL	Calcium, Dissolved		347.7	mg/L	0.0039	0.0039	200.7/6010B
			9/26/2008		JL	Magnesium, Dissolved		93.1	mg/L	0.0006	0.0006	200.7/6010B
			9/26/2008		JL	Phosphorus, Total		0.79	mg/L	0.0096	0.0096	200.7/6010B
			9/26/2008		JL	Potassium, Dissolved		14	mg/L	0.0009	0.0009	200.7/6010B
			9/26/2008		JL	Sodium, Dissolved		1394	mg/L	0.0018	0.0018	200.7/6010B
			9/26/2008	17:30	JL	Total Hardness		1415	mg/l	0.06	0.06	200.7/6010B
			10/2/2008	14:30	op	Total Alkalinity		49.8	mg/l	2	2	EPA_310.1
			10/8/2008	15:20	OP	Chloride		1709	mg/l	0.383	0.383	EPA 9253
			9/19/2008	14:25	B/S	Dissolved Oxygen		6.18	mg/l	0.1	0.1	EPA_360.1
			10/9/2008	9:40	MY	Fluoride	J	1.04	mg/L	0.04	0.04	EPA 340.1
			9/25/2008	10:51	BS	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			9/19/2008	14:25	B/J	pH		7.7	s.u.			EPA_150.1
			9/23/2008	9:00	BS	Sulfate		1000	mg/l	1.2	1.2	EPA_375.2
			9/26/2008	10:45	SS	Total Dissolved Solids		4770	mg/l	5.5	5.50	EPA_160.1
			9/29/2008	9:45	OP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M
			9/25/2008	15:00	SS	Total Suspended Solids		13	mg/l	1.7	1.7	EPA_160.2
			9/29/2008	14:43	SS	Turbidity	B	21.5	NTU	0.078	0.078	EPA_180.1

Note:

MDL = Method Detection Limit. SQL* = Sample Quantitation Level.

B = Analyte was detected in both the sample and associated blank.

OL2 = Subcontracted to ODEQ Lab #7211.

M = Matrix effect present

BDL = Analyte was analyzed for but not detected above MDL.

J = Analyte was detected above the MDL but below the PQL.

Q = Surrogate recovery fell outside acceptance limits.

* When a sample contains a high concentration of either a target or non-target compound(s) or interference, it must be diluted. SQL = Dilution factor x MDL. Samples are disposed of 20 days after the sample is reported.

Susie Southwell

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