



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: 1/25/2008

Project Name: RED RIVER & WICHITA WATER QUAL

Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800443	GAGE NUMBER: 07331000					METALS-TUL-D:						
		1/24/2008	2/1/2008	12:06	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Barium		0.134	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper		0.016	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Iron		0.058	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Manganese		0.007	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200800443	GAGE NUMBER: 07331000					METALS-TULSA:						
		1/24/2008	2/1/2008	12:06	JL	Arsenic, Total		0.012	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.154	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.022	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.163	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.025	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.057	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total		0.007	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total		0.008	mg/L	0.0006	0.0006	200.7/6010B
		1/28/2008		15:15	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		1/28/2008		15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		1/31/2008		10:00	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.00140	EPA_7440

Laboratory Authorized Signature



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1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189

Date Received: 1/25/2008

Project Name: RED RIVER & WICHITA WATER QUAL

Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Contains multiple rows of analytical data for various samples.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method	
200800443	GAGE NUMBER: 07331000	1/24/2008	2/4/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			2/4/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A	
			2/4/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A	
			2/4/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A	
			2/4/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/4/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/4/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A	
			2/4/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/4/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A	
			2/4/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/4/2008		MY	1,2-dcbpl (Surr)			105	%Rec	70	70	EPA_8081A
			2/4/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A	
200800444	GAGE NUMBER: 07331600	1/24/2008	METALS-TUL-D:										
			2/1/2008	12:06	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Barium		0.146	mg/L	0.0006	0.0006	200.7/6010B	
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Dissolved Copper		0.012	mg/L	0.0003	0.0003	200.7/6010B	
			2/1/2008		JL	Dissolved Iron		0.024	mg/L	0.0008	0.0008	200.7/6010B	
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B	
			2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B	
200800444	GAGE NUMBER: 07331600	1/24/2008	METALS-TULSA:										
			2/1/2008	12:06	JL	Arsenic, Total		0.021	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Barium, Total		0.178	mg/L	0.0006	0.0006	200.7/6010B	

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for various chemical analyses including Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, Mercury, Selenium, and Salts-Tulsa.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800445	GAGE NUMBER: 07316000	1/24/2008	2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper		0.013	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Iron		0.032	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Manganese		0.055	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Dissolved Nickel		0.007	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc		0.004	mg/L	0.0006	0.0006	200.7/6010B
200800445	GAGE NUMBER: 07316000	1/24/2008	METALS-TULSA:									
			2/1/2008	12:06	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.159	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.147	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.119	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.031	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.078	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total		0.013	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total		0.008	mg/L	0.0006	0.0006	200.7/6010B
			1/28/2008	15:15	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/28/2008	15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/31/2008	10:21	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.00140	EPA_7440
			1/30/2008	20:48	OL	Selenium	U	BDL	mg/l	0.0014	0.00140	EPA_7740
2/1/2008	12:06	JL	Silicon Dioxide (silica)		5.23	mg/l	0.006	0.006	200.7/6010B			
200800445	GAGE NUMBER: 07316000	1/24/2008	SALTS-TULSA:									
			2/1/2008	12:06	JL	Calcium, Dissolved		253	mg/L	0.0039	0.0039	200.7/6010B
			2/1/2008		JL	Magnesium, Dissolved		97.1	mg/L	0.0006	0.0006	200.7/6010B

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800445	GAGE NUMBER: 07316000	1/24/2008	2/1/2008		JL	Phosphorus, Total		0.19	mg/L	0.0096	0.0096	200.7/6010B
			2/1/2008		JL	Potassium, Dissolved		18.4	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Sodium, Dissolved		1330	mg/L	0.0018	0.0018	200.7/6010B
			2/1/2008	12:06	JL	Total Hardness		1130	mg/l	0.06	0.06	200.7/6010B
			1/29/2008	13:20	AP	Total Alkalinity		204	mg/l	2	2	EPA_310.1
			1/29/2008	11:00	OP	Chloride		1150	mg/l	0.383	0.383	EPA 9253
			1/24/2008	13:22	A/J	Dissolved Oxygen		9.4	mg/l	0.1	0.1	EPA_360.1
			2/7/2008	9:30	OP	Fluoride		0.970	mg/L			EPA 340.1
			2/4/2008	13:00	OP	Nitrate/nitrite As Nitroge		U BDL	mg/l	1.2	1.2	EPA 353.3
			1/24/2008	13:22	A/J	pH		8.2	s.u.			EPA_150.1
			1/29/2008	11:00	AP	Sulfate		700	mg/l	1.2	1.2	EPA_375.2
			1/28/2008	16:00	AP	Total Dissolved Solids		882	mg/l	5.5	5.5	EPA_160.1
			2/8/2008	9:00	AP	Total Kjeldahl Nitrogen		U BDL	mg/l	0.4	0.4	EPA_351.3M
			1/28/2008	9:00	AP	Total Suspended Solids		8.5	mg/l	1.7	1.7	EPA_160.2
			1/28/2008	14:00	AP	Turbidity		7.5	NTU	0.078	0.078	EPA_180.1
200800445	GAGE NUMBER: 07316000	1/24/2008	PEST-OC-A:									
			2/4/2008	20:57	MY	tcmx (Surr)		96	%Rec	70	70	EPA_8081A
			2/4/2008		MY	Alpha-Bhc		U BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Beta-Bhc		U BDL	ug/l	0.05	0.05	EPA_8081A
			2/4/2008		MY	Gamma-Bhc		U BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Delta-Bhc		U BDL	ug/l	0.05	0.05	EPA_8081A
			2/4/2008		MY	Heptachlor		U BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Aldrin		U BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Heptachlor Epoxide		U BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Chlordane		U BDL	ug/l	0.2	0.2	EPA_8081A
			2/4/2008		MY	Endosulfan I		U BDL	ug/l	0.05	0.05	EPA_8081A
			2/4/2008		MY	Dieldrin		U BDL	ug/l	0.09	0.09	EPA_8081A
			2/4/2008		MY	Endrin		U BDL	ug/l	0.07	0.07	EPA_8081A
			2/4/2008		MY	Endosulfan II		U BDL	ug/l	0.07	0.07	EPA_8081A

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800445	GAGE NUMBER: 07316000	1/24/2008	2/4/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			2/4/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/4/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			2/4/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/4/2008		MY	1,2-dcbpl (Surr)		103	%Rec	70	70	EPA_8081A
			2/4/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A
200800446	GAGE NUMBER: 07308500	1/25/2008	METALS-TUL-D:									
			2/1/2008	12:06	JL	Dissolved Arsenic	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Barium		0.065	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper		0.022	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Iron		0.029	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Manganese		0.015	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc		0.008	mg/L	0.0006	0.0006	200.7/6010B
200800446	GAGE NUMBER: 07308500	1/25/2008	METALS-TULSA:									
			2/1/2008	12:06	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.082	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.141	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.106	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.024	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.029	mg/L	0.0001	0.0001	200.7/6010B

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for three sample groups: Nickel/Silver/Zinc, Salts-Tulsa, and PEST-OC-A.

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains two main sections of data for lab numbers 200800446 and 200800447.

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for GAGE NUMBER: 07312100 under METALS-TULSA and SALTS-TULSA.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200800447	GAGE NUMBER: 07312100	1/24/2008	1/24/2008	16:42	A/J	Dissolved Oxygen		9.3	mg/l	0.1	0.1 EPA_360.1
			2/7/2008	9:30	OP	Fluoride		0.920	mg/L		EPA 340.1
			2/4/2008	13:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3
			1/24/2008	16:42	A/J	pH		8.2	s.u.		EPA_150.1
			1/29/2008	11:00	AP	Sulfate		760	mg/l	1.2	1.2 EPA_375.2
			1/28/2008	16:00	AP	Total Dissolved Solids		3064	mg/l	5.5	5.5 EPA_160.1
			2/8/2008	9:00	AP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M
			1/28/2008	9:00	AP	Total Suspended Solids		12.4	mg/l	1.7	1.7 EPA_160.2
			1/28/2008	14:00	AP	Turbidity		11.7	NTU	0.078	0.078 EPA_180.1
			200800447	GAGE NUMBER: 07312100	1/24/2008	PEST-OC-A:					
2/4/2008	22:11	MY				tcmx (Surr)	Q	65	%Rec	70	70 EPA_8081A
2/4/2008		MY				Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/4/2008		MY				Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/4/2008		MY				Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/4/2008		MY				Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/4/2008		MY				Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/4/2008		MY				Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/4/2008		MY				Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/4/2008		MY				Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
2/4/2008		MY				Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/4/2008		MY				Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
2/4/2008		MY				Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/4/2008		MY				Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/4/2008		MY				Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
2/4/2008		MY				Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/4/2008		MY				Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
2/4/2008		MY				Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/4/2008		MY	1,2-dcbpl (Surr)		85	%Rec	70	70 EPA_8081A			
2/4/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A			

Laboratory Authorized Signature



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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800448	GAGE NUMBER: 07311900					METALS-TUL-D:						
		1/24/2008	2/1/2008	12:06	JL	Dissolved Arsenic		0.017	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Barium		0.041	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper		0.038	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Iron		0.023	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead		0.017	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Manganese		0.1	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc		0.004	mg/L	0.0006	0.0006	200.7/6010B
200800448	GAGE NUMBER: 07311900					METALS-TULSA:						
		1/24/2008	2/1/2008	12:06	JL	Arsenic, Total		0.023	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.033	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.13	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.081	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.015	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.097	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total		0.008	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total		0.004	mg/L	0.0006	0.0006	200.7/6010B
		1/29/2008		14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		1/28/2008		15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
		1/31/2008		10:30	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.00700	EPA_7440

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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800448	GAGE NUMBER: 07311900	1/24/2008	1/30/2008	21:32	OL	Selenium	<	0.0072	mg/l	0.0014	0.00700	EPA_7740
			2/1/2008	12:06	JL	Silicon Dioxide (silica)	4.3	mg/l	0.006	0.006	200.7/6010B	
200800448	GAGE NUMBER: 07311900	1/24/2008	SALTS-TULSA:									
			2/1/2008	12:06	JL	Calcium, Dissolved	906	mg/L	0.0039	0.0039	200.7/6010B	
			2/1/2008		JL	Magnesium, Dissolved	174	mg/L	0.0006	0.0006	200.7/6010B	
			2/1/2008		JL	Phosphorus, Total	0.1	mg/L	0.0096	0.0096	200.7/6010B	
			2/1/2008		JL	Potassium, Dissolved	50.3	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Sodium, Dissolved	7730	mg/L	0.0018	0.0018	200.7/6010B	
			2/1/2008	12:06	JL	Total Hardness	3170	mg/l	0.06	0.06	200.7/6010B	
			1/29/2008	13:20	AP	Total Alkalinity	192	mg/l	2	2	EPA_310.1	
			1/29/2008	11:00	OP	Chloride	5120	mg/l	0.383	0.383	EPA 9253	
			1/24/2008	17:17	A/J	Dissolved Oxygen	9.6	mg/l	0.1	0.1	EPA_360.1	
			2/7/2008	9:30	OP	Fluoride	1.61	mg/L			EPA 340.1	
			2/4/2008	13:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			1/24/2008	17:17	A/J	pH	8.3	s.u.			EPA_150.1	
			1/29/2008	11:00	AP	Sulfate	2640	mg/l	1.2	1.2	EPA_375.2	
			1/28/2008	16:00	AP	Total Dissolved Solids	12671	mg/l	5.5	5.5	EPA_160.1	
2/8/2008	9:00	AP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			
1/28/2008	9:00	AP	Total Suspended Solids	U	BDL	mg/l	1.7	1.7	EPA_160.2			
1/28/2008	14:00	AP	Turbidity	3.8	NTU	0.078	0.078	EPA_180.1				
200800448	GAGE NUMBER: 07311900	1/24/2008	PEST-OC-A:									
			2/4/2008	22:48	MY	tcmx (Surr)	Q	68	%Rec	70	70	EPA_8081A
			2/4/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/4/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/4/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/4/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A

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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for samples 200800448 (Heptachlor Epoxide, Chlordane, Endosulfan I, Dieldrin, Endrin, Endosulfan II, Endrin Aldehyde, Methoxychlor, Endosulfan Sulfate, Endrin Ketone, 1,2-dcbpl (Surr), Toxaphene) and 200800449 (METALS-TUL-D: Dissolved Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc).

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800449	GAGE NUMBER: 07311800	1/25/2008	2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.16	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.097	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.045	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.11	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total		0.012	mg/L	0.0006	0.0006	200.7/6010B
			1/29/2008	14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/28/2008	15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/31/2008	10:32	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.00700	EPA_7440
			1/31/2008	11:11	OL	Selenium	<	0.0072	mg/l	0.0014	0.00700	EPA_7740
			2/1/2008	12:06	JL	Silicon Dioxide (silica)		5.75	mg/l	0.006	0.006	200.7/6010B
			200800449	GAGE NUMBER: 07311800	1/25/2008	SALTS-TULSA:						
2/1/2008	12:06	JL				Calcium, Dissolved		1050	mg/L	0.0039	0.0039	200.7/6010B
2/1/2008		JL				Magnesium, Dissolved		469	mg/L	0.0006	0.0006	200.7/6010B
2/1/2008		JL				Phosphorus, Total		0.8	mg/L	0.0096	0.0096	200.7/6010B
2/1/2008		JL				Potassium, Dissolved		32	mg/L	0.0009	0.0009	200.7/6010B
2/1/2008		JL				Sodium, Dissolved		3770	mg/L	0.0018	0.0018	200.7/6010B
2/1/2008	12:06	JL				Total Hardness		4650	mg/l	0.06	0.06	200.7/6010B
1/29/2008	13:20	AP				Total Alkalinity		174	mg/l	2	2	EPA_310.1
1/29/2008	11:00	OP				Chloride		4770	mg/l	0.383	0.383	EPA 9253
1/25/2008	9:08	A/P				Dissolved Oxygen		9.4	mg/l	0.1	0.1	EPA_360.1
2/7/2008	9:30	OP				Fluoride		1.50	mg/L			EPA 340.1
2/4/2008	13:00	OP				Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
1/25/2008	9:08	A/J				pH		8.2	s.u.			EPA_150.1
1/29/2008	11:00	AP				Sulfate		3300	mg/l	1.2	1.2	EPA_375.2
1/28/2008	16:00	AP				Total Dissolved Solids		12980	mg/l	5.5	5.5	EPA_160.1

Laboratory Authorized Signature



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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for three lab numbers: 200800449, 200800449, and 200800450.

Laboratory Authorized Signature



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Analytical Laboratory - Environmental Consulting - Permit Application and Compliance

Certificate of Analysis

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To: MR. TONY CLYDE

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

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL, Method. Contains data for Lab 200800450 under categories METALS-TULSA and SALTS-TULSA.

Laboratory Authorized Signature



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

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL Method. Contains two main sections of data for lab numbers 200800450 and 200800450.

Laboratory Authorized Signature



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TULSA, OK 74128-4609

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800450	GAGE NUMBER: 07311700	1/25/2008	2/5/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			2/5/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			2/5/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	1,2-dcbpl (Surr)		105	%Rec	70	70	EPA_8081A
			2/5/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A
200800451	GAGE NUMBER: 07311630	1/25/2008	METALS-TUL-D:									
			2/1/2008	12:06	JL	Dissolved Arsenic		0.14	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Barium		0.03	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper		0.13	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Dissolved Manganese	U	BDL	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200800451	GAGE NUMBER: 07311630	1/25/2008	METALS-TULSA:									
			2/1/2008	12:06	JL	Arsenic, Total		0.36	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.02	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.21	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.03	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
2/1/2008		JL	Manganese, Total	U	BDL	mg/L	0.0001	0.0001	200.7/6010B			

Laboratory Authorized Signature



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Certificate of Analysis

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To: MR. TONY CLYDE

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

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains data for three sample groups: Nickel/Zinc/Mercury/Selenium/Silicon Dioxide, SALTS-TULSA, and PEST-OC-A.

Laboratory Authorized Signature



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Project #: W912BV-07-P0189
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800451	GAGE NUMBER: 07311630	1/25/2008	2/5/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A
			2/5/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A
			2/5/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			2/5/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			2/5/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			2/5/2008		MY	1,2-dcbpl (Surr)			88	%Rec	70	70
2/5/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A			
200800452	GAGE NUMBER: 07311600	1/25/2008	METALS-TUL-D:									
			2/1/2008	12:06	JL	Dissolved Arsenic	0.2	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Barium	0.03	mg/L	0.0006	0.0006	200.7/6010B	
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Dissolved Copper	0.16	mg/L	0.0003	0.0003	200.7/6010B	
			2/1/2008		JL	Dissolved Iron	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Dissolved Lead	0.01	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Manganese	0.08	mg/L	0.0001	0.0001	200.7/6010B	
2/1/2008		JL	Dissolved Nickel	U	BDL	mg/L	0.0069	0.0069	200.7/6010B			

Laboratory Authorized Signature



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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800452	GAGE NUMBER: 07311600	1/25/2008	2/1/2008		JL	Dissolved Silver	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Dissolved Zinc	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
200800452	GAGE NUMBER: 07311600	1/25/2008	METALS-TULSA:									
			2/1/2008	12:06	JL	Arsenic, Total		0.27	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Barium, Total		0.03	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.16	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total	U	BDL	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total		0.01	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.08	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total	U	BDL	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total	U	BDL	mg/L	0.0006	0.0006	200.7/6010B
			1/29/2008	14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/28/2008	15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/31/2008	10:41	OL	Selenium, Dissolved	<	0.0072	mg/l	0.0014	0.00700	EPA_7440
1/30/2008	21:38	OL	Selenium	<	0.0072	mg/l	0.0014	0.00700	EPA_7740			
2/1/2008	12:06	JL	Silicon Dioxide (silica)		10.2	mg/l	0.006	0.006	200.7/6010B			
200800452	GAGE NUMBER: 07311600	1/25/2008	SALTS-TULSA:									
			2/1/2008	12:06	JL	Calcium, Dissolved		1010	mg/L	0.0039	0.0039	200.7/6010B
			2/1/2008		JL	Magnesium, Dissolved		252	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Phosphorus, Total		0.78	mg/L	0.0096	0.0096	200.7/6010B
			2/1/2008		JL	Potassium, Dissolved		34.3	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Sodium, Dissolved		6896	mg/L	0.0018	0.0018	200.7/6010B
			2/1/2008	12:06	JL	Total Hardness		3690	mg/l	0.06	0.06	200.7/6010B
			1/29/2008	13:20	AP	Total Alkalinity		153	mg/l	2	2	EPA_310.1
1/29/2008	11:00	OP	Chloride		7650	mg/l	0.383	0.383	EPA 9253			

Laboratory Authorized Signature



Environmental Laboratory and Consulting Company

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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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method
200800452	GAGE NUMBER: 07311600	1/25/2008	1/25/2008	11:35	A/P	Dissolved Oxygen		10.8	mg/l	0.1	0.1 EPA_360.1
			2/7/2008	9:30	OP	Fluoride		1.77	mg/L		EPA 340.1
			2/4/2008	13:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2 EPA 353.3
			1/25/2008	11:35	A/J	pH		8.1	s.u.		EPA_150.1
			1/29/2008	11:00	AP	Sulfate		2950	mg/l	1.2	1.2 EPA_375.2
			1/28/2008	16:00	AP	Total Dissolved Solids		16924	mg/l	5.5	5.5 EPA_160.1
			2/8/2008	9:00	AP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4 EPA_351.3M
			1/28/2008	9:00	AP	Total Suspended Solids	J	4.9	mg/l	1.7	1.7 EPA_160.2
			1/28/2008	14:00	AP	Turbidity		4.7	NTU	0.078	0.078 EPA_180.1
			200800452	GAGE NUMBER: 07311600	1/25/2008	PEST-OC-A:					
2/5/2008	1:15	MY				tcmx (Surr)		109	%Rec	70	70 EPA_8081A
2/5/2008		MY				Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/5/2008		MY				Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/5/2008		MY				Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/5/2008		MY				Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/5/2008		MY				Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/5/2008		MY				Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/5/2008		MY				Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
2/5/2008		MY				Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
2/5/2008		MY				Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
2/5/2008		MY				Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
2/5/2008		MY				Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/5/2008		MY				Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/5/2008		MY				Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A
2/5/2008		MY				Methoxychlor	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/5/2008		MY				Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1 EPA_8081A
2/5/2008		MY				Endrin Ketone	U	BDL	ug/l	0.07	0.07 EPA_8081A
2/5/2008		MY	1,2-dcbpl (Surr)		107	%Rec	70	70 EPA_8081A			
2/5/2008		MY	Toxaphene	U	BDL	ug/l	1.3	1.3 EPA_8081A			

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

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL, Method. Contains two main sections for METALS-TUL-D and METALS-TULSA.

Laboratory Authorized Signature



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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200800453	GAGE NUMBER: 07311782	1/25/2008	1/30/2008	21:48	OL	Selenium	U	BDL	mg/l	0.0014	0.00140	EPA_7740
			2/1/2008	12:06	JL	Silicon Dioxide (silica)	7.2	mg/l	0.006	0.006	200.7/6010B	
200800453	GAGE NUMBER: 07311782	1/25/2008	SALTS-TULSA:									
			2/1/2008	12:06	JL	Calcium, Dissolved	1381	mg/L	0.0039	0.0039	200.7/6010B	
			2/1/2008		JL	Magnesium, Dissolved	430	mg/L	0.0006	0.0006	200.7/6010B	
			2/1/2008		JL	Phosphorus, Total	0.93	mg/L	0.0096	0.0096	200.7/6010B	
			2/1/2008		JL	Potassium, Dissolved	137.6	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Sodium, Dissolved	22240	mg/L	0.0018	0.0018	200.7/6010B	
			2/1/2008	12:06	JL	Total Hardness	6180	mg/l	0.06	0.06	200.7/6010B	
			1/29/2008	13:20	AP	Total Alkalinity	118	mg/l	2	2	EPA_310.1	
			1/29/2008	11:00	OP	Chloride	20000	mg/l	0.383	0.383	EPA_9253	
			1/25/2008	12:22	A/P	Dissolved Oxygen	11.2	mg/l	0.1	0.1	EPA_360.1	
			2/7/2008	9:30	OP	Fluoride	1.97	mg/L			EPA_340.1	
			2/4/2008	13:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			1/25/2008	12:22	A/J	pH	8	s.u.			EPA_150.1	
			1/29/2008	11:00	AP	Sulfate	3650	mg/l	1.2	1.2	EPA_375.2	
			1/31/2008	14:22	AP	Total Dissolved Solids	39000	mg/l	5.5	5.5	EPA_160.1	
2/8/2008	9:00	AP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M			
1/28/2008	9:00	AP	Total Suspended Solids	J	1.8	mg/l	1.7	1.7	EPA_160.2			
1/28/2008	14:00	AP	Turbidity	4.3	NTU	0.078	0.078	EPA_180.1				
200800453	GAGE NUMBER: 07311782	1/25/2008	PEST-OC-A:									
			2/5/2008	1:51	MY	tcmx (Surr)	85	%Rec	70	70	EPA_8081A	
			2/5/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
2/5/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A			

Laboratory Authorized Signature



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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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method	
200800453	GAGE NUMBER: 07311782	1/25/2008	2/5/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			2/5/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A	
			2/5/2008		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A	
			2/5/2008		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A	
			2/5/2008		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/5/2008		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/5/2008		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A	
			2/5/2008		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/5/2008		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A	
			2/5/2008		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			2/5/2008		MY	1,2-dcbpl (Surr)			103	%Rec	70	70	EPA_8081A
			2/5/2008		MY	Toxaphene	U	BDL	ug/l		1.3	1.3	EPA_8081A
200800454	GAGE NUMBER: 07311783	1/25/2008	METALS-TUL-D:										
			2/1/2008	12:06	JL	Dissolved Arsenic		0.25	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Barium		0.03	mg/L	0.0006	0.0006	200.7/6010B	
			2/1/2008		JL	Dissolved Cadmium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Dissolved Chromium	U	BDL	mg/L	0.0009	0.0009	200.7/6010B	
			2/1/2008		JL	Dissolved Copper		0.14	mg/L	0.0003	0.0003	200.7/6010B	
			2/1/2008		JL	Dissolved Iron		0.045	mg/L	0.0008	0.0008	200.7/6010B	
			2/1/2008		JL	Dissolved Lead	U	BDL	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Dissolved Manganese		0.03	mg/L	0.0001	0.0001	200.7/6010B	
			2/1/2008		JL	Dissolved Nickel		0.007	mg/L	0.0069	0.0069	200.7/6010B	
200800454	GAGE NUMBER: 07311783	1/25/2008	METALS-TULSA:										
			2/1/2008	12:06	JL	Arsenic, Total		0.43	mg/L	0.009	0.009	200.7/6010B	
			2/1/2008		JL	Barium, Total		0.03	mg/L	0.0006	0.0006	200.7/6010B	

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200800454	GAGE NUMBER: 07311783	1/25/2008	2/1/2008		JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Chromium, Total	U	BDL	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Copper, Total		0.23	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Iron, Total		0.129	mg/L	0.0008	0.0008	200.7/6010B
			2/1/2008		JL	Lead, Total	U	BDL	mg/L	0.009	0.009	200.7/6010B
			2/1/2008		JL	Manganese, Total		0.04	mg/L	0.0001	0.0001	200.7/6010B
			2/1/2008		JL	Nickel, Total		0.026	mg/L	0.0069	0.0069	200.7/6010B
			2/1/2008		JL	Silver, Total	U	BDL	mg/L	0.0003	0.0003	200.7/6010B
			2/1/2008		JL	Zinc, Total		0.046	mg/L	0.0006	0.0006	200.7/6010B
			1/29/2008	14:30	OP	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/28/2008	15:15	OP	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			1/31/2008	10:53	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.00140	EPA_7440
			1/30/2008	21:44	OL	Selenium	U	BDL	mg/l	0.0014	0.00140	EPA_7740
			2/1/2008	12:06	JL	Silicon Dioxide (silica)		12.5	mg/l	0.006	0.006	200.7/6010B
			200800454	GAGE NUMBER: 07311783	1/25/2008	SALTS-TULSA:						
2/1/2008	12:06	JL				Calcium, Dissolved		1449	mg/L	0.0039	0.0039	200.7/6010B
2/1/2008		JL				Magnesium, Dissolved		436	mg/L	0.0006	0.0006	200.7/6010B
2/1/2008		JL				Phosphorus, Total		0.77	mg/L	0.0096	0.0096	200.7/6010B
2/1/2008		JL				Potassium, Dissolved		109	mg/L	0.0009	0.0009	200.7/6010B
2/1/2008		JL				Sodium, Dissolved		18340	mg/L	0.0018	0.0018	200.7/6010B
2/1/2008	12:06	JL				Total Hardness		5550	mg/l	0.06	0.06	200.7/6010B
1/29/2008	13:20	AP				Total Alkalinity		132	mg/l	2	2	EPA_310.1
2/6/2008	9:45	OP				Chloride		17000	mg/l	0.383	0.383	EPA 9253
1/25/2008	12:35	A/P				Dissolved Oxygen		11.4	mg/l	0.1	0.1	EPA_360.1
2/7/2008	9:30	OP				Fluoride		1.88	mg/L			EPA 340.1
2/4/2008	13:00	OP				Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
1/25/2008	12:35	A/J				pH		7.9	s.u.			EPA_150.1
1/29/2008	11:00	AP				Sulfate		3700	mg/l	1.2	1.2	EPA_375.2
1/31/2008	14:22	AP				Total Dissolved Solids		34000	mg/l	5.5	5.5	EPA_160.1

Laboratory Authorized Signature



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Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Contains data for samples 200800454 and 200800455.

Laboratory Authorized Signature



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
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
Report Date: 2/15/2008

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL, Method. Contains multiple rows of analytical data for GAGE NUMBER: 7312100 FIELD DUPLICATE.

Laboratory Authorized Signature



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Certificate of Analysis

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1645 S 101st EAST AVE
TULSA, OK 74128-4609

Project #: W912BV-07-P0189
Project Name: RED RIVER & WIC

Date Received: 1/25/2008
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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200800455	GAGE NUMBER: 7312100 FIELD DUPLICATE					SALTS-TULSA:						
		1/24/2008	2/1/2008	12:06	JL	Calcium, Dissolved		287.4	mg/L	0.0039	0.0039	200.7/6010B
			2/1/2008		JL	Magnesium, Dissolved		89.1	mg/L	0.0006	0.0006	200.7/6010B
			2/1/2008		JL	Phosphorus, Total		0.17	mg/L	0.0096	0.0096	200.7/6010B
			2/1/2008		JL	Potassium, Dissolved		16.8	mg/L	0.0009	0.0009	200.7/6010B
			2/1/2008		JL	Sodium, Dissolved		1354	mg/L	0.0018	0.0018	200.7/6010B
			2/1/2008	12:06	JL	Total Hardness		1040	mg/l	0.06	0.06	200.7/6010B
		1/29/2008		13:20	AP	Total Alkalinity		175	mg/l	2	2	EPA_310.1
		2/6/2008		9:45	OP	Chloride		1130	mg/l	0.383	0.383	EPA 9253
		1/24/2008		16:45	A/J	Dissolved Oxygen		9.2	mg/l	0.1	0.1	EPA_360.1
		2/7/2008		9:30	OP	Fluoride		0.910	mg/L			EPA 340.1
		2/4/2008		13:00	OP	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
		1/24/2008		16:45	A/J	pH		8.2	s.u.			EPA_150.1
		1/29/2008		11:00	AP	Sulfate		650	mg/l	1.2	1.2	EPA_375.2
		1/31/2008		14:22	AP	Total Dissolved Solids		3253	mg/l	5.5	5.5	EPA_160.1
		2/8/2008		9:00	AP	Total Kjeldahl Nitrogen	U	BDL	mg/l	0.4	0.4	EPA_351.3M
		1/28/2008		9:00	AP	Total Suspended Solids		12.7	mg/l	1.7	1.7	EPA_160.2
		1/28/2008		14:00	AP	Turbidity		14.8	NTU	0.078	0.078	EPA_180.1
200800455	GAGE NUMBER: 7312100 FIELD DUPLICATE					PEST-OC-A:						
		1/24/2008	2/5/2008	3:05	MY	tcmx (Surr)	Q	54	%Rec	70	70	EPA_8081A
			2/5/2008		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			2/5/2008		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
			2/5/2008		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Analyzed Time, By, Parameter, Q, Results, Units, MDL, SQL, Method. Contains 10 rows of analysis data for various pesticides and herbicides.

Note:

- 200800448: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200800449: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200800450: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200800451: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.
200800452: The higher detection limit on the selenium results is based on the sample being diluted prior to analysis.

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.

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.

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