



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-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200702803	GAGE NUMBER: 07331600 RED RIVER AT DENISON DAM NEAR DENISON, TX					METALS-TULSA:						
		7/13/2007	7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Barium, Dissolved		0.130	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Barium, Total		0.180	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Copper, Total		0.0300	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Iron, Dissolved		0.0350	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	14:30	JL	Iron, Total		0.130	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	15:40	JL	Lead, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Lead, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Manganese, Dissolved	U	BDL	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	14:30	JL	Manganese, Total		0.100	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	15:40	JL	Nickel, Dissolved	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	14:30	JL	Nickel, Total	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	15:40	JL	Silver, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Silver, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Zinc, Dissolved	U	BDL	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Zinc, Total	U	BDL	mg/L	0.0006	0.000600	200.7/6010B
			8/6/2007	17:05	JL	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/6/2007	16:00	JL	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			7/27/2007	16:39	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.00140	EPA_7440

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To: MR. TONY CLYDE

TULSA DISTRICT CORPS OF ENGINEERS
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Project #: W912BV-07-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

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 for Selenium, Silicon Dioxide, and various chemical analyses.

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Time, Analyzed By, Parameter, Q Results, Units, MDL, SQL Method. Contains two main sections for Lab 200702803 (PEST-OC-A) and Lab 200702804 (METALS-TULSA).

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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 Lab 200702804.

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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 two samples: 200702804 (Endrin, Endosulfan II, etc.) and 200702805 (METALS-TULSA: Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese).

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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 Total Dissolved Solids, Total Kjeldahl Nitrogen, Total Suspended Solids, Turbidity, and PEST-OC-A analysis.

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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 various metals like Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, Mercury, and Selenium.

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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: SALTS-TULSA and PEST-OC-A.

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method	
200702806	GAGE NUMBER: 07308500 RED RIVER NEAR BURKBURNETT, TX	7/13/2007	7/18/2007		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			7/18/2007		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			7/18/2007		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			7/18/2007		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A	
			7/18/2007		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A	
			7/18/2007		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A	
			7/18/2007		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/18/2007		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/18/2007		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A	
			7/18/2007		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/18/2007		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A	
			7/18/2007		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/18/2007		MY	1,2-dcbpl (Surr)			108	%Rec	70	70	EPA_8081A
			7/18/2007		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A	
200702807	GAGE NUMBER: 07312100 WICHITA RIVER NEAR MABELLE, TX	7/12/2007	METALS-TULSA:										
			7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B	
			7/25/2007	14:30	JL	Arsenic, Total		0.0500	mg/L	0.009	0.00900	200.7/6010B	
			7/25/2007	15:40	JL	Barium, Dissolved		0.160	mg/L	0.0006	0.000600	200.7/6010B	
			7/25/2007	14:30	JL	Barium, Total		0.190	mg/L	0.0006	0.000600	200.7/6010B	
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	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. Includes data for Total Alkalinity, Chloride, Dissolved Oxygen, Fluoride, Nitrate/nitrite As Nitroge, pH, Sulfate, Total Dissolved Solids, Total Kjeldahl Nitrogen, Total Suspended Solids, Turbidity, 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. Includes data for GAGE NUMBER: 07312100 and GAGE NUMBER: 07311900.

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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 of data for lab numbers 200702808 and 200702808.

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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 Total Kjeldahl Nitrogen, Total Suspended Solids, Turbidity, and PEST-OC-A analysis.

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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 analysis data for various metals like Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, Mercury, Selenium, and Silicon Dioxide.

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Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Contains two main sections: SALTS-TULSA and PEST-OC-A.

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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 Lab 200702809 (Aldrin, Heptachlor Epoxide, etc.) and Lab 200702810 (METALS-TULSA: Arsenic, Barium, Cadmium, Chromium, Copper).

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200702810	GAGE NUMBER: 07311782 S WICHITA RIVER AT LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	7/27/2007	16:30	JL	Total Hardness		5763	mg/l	0.06	0.06	200.7/6010B
			7/19/2007	11:30	AP	Total Alkalinity		97.8	mg/l	2	2	EPA_310.1
			7/16/2007		ms	Chloride		19744	mg/l	0.383	0.383	EPA 9253
			7/12/2007	19:45	JL	Dissolved Oxygen		8.9	mg/l	0.1	0.1	EPA_360.1
			7/15/2007	10:30	KK	Fluoride		2.00	mg/L			EPA 340.1
			7/30/2007	13:00	MS/	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			7/12/2007	19:45	JL	pH		7.76	s.u.			EPA_150.1
			7/16/2007		ap	Sulfate		2900	mg/l	1.2	1.2	EPA_375.2
			7/20/2007	12:17	AP	Total Dissolved Solids		37200	mg/l	5.5	5.50	EPA_160.1
			7/17/2007		ap	Total Kjeldahl Nitrogen		1.68	mg/l	0.4	0.4	EPA_351.3M
			7/18/2007	11:30	AP	Total Suspended Solids	J	3.8	mg/l	1.7	1.7	EPA_160.2
			7/23/2007		MS	Turbidity		9.7	NTU	0.078	0.078	EPA_180.1
			200702810	GAGE NUMBER: 07311782 S WICHITA RIVER AT LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	PEST-OC-A:						
7/13/2007	19:44	MY				tcmx (Surr)		89	%Rec	70	70	EPA_8081A
7/13/2007		MY				Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
7/13/2007		MY				Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
7/13/2007		MY				Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
7/13/2007		MY				Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
7/13/2007		MY				Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
7/13/2007		MY				Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
7/13/2007		MY				Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
7/13/2007		MY				Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A
7/13/2007		MY				Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A
7/13/2007		MY				Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A

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200702810	GAGE NUMBER: 07311782 S WICHITA RIVER AT LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	7/13/2007		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			7/13/2007		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			7/13/2007		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	1,2-dcbpl (Surr)		103	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A
200702811	GAGE NUMBER: 07311783 S WICHITA RIVER BELOW LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	METALS-TULSA:									
			7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Arsenic, Total		0.0800	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Barium, Dissolved		0.0600	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Barium, Total		0.0800	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Copper, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Iron, Dissolved	U	BDL	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	14:30	JL	Iron, Total		0.540	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	15:40	JL	Lead, Dissolved		0.100	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Lead, Total		0.140	mg/L	0.009	0.00900	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-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

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 sample entries with multiple analysis rows.

Laboratory Authorized Signature



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Date Received: 7/13/2007
Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200702811	GAGE NUMBER: 07311783 S WICHITA RIVER BELOW LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	7/30/2007	13:00	MS/	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA_353.3
			7/12/2007	19:30	JL	pH		7.6	s.u.			EPA_150.1
			7/16/2007		ap	Sulfate		3600	mg/l	1.2	1.2	EPA_375.2
			7/20/2007	12:17	AP	Total Dissolved Solids		34600	mg/l	5.5	5.50	EPA_160.1
			7/17/2007		ap	Total Kjeldahl Nitrogen	J	0.56	mg/l	0.4	0.4	EPA_351.3M
			7/18/2007	11:30	AP	Total Suspended Solids		30.5	mg/l	1.7	1.7	EPA_160.2
		7/23/2007			MS	Turbidity		14.4	NTU	0.078	0.078	EPA_180.1
200702811	GAGE NUMBER: 07311783 S WICHITA RIVER BELOW LOW FLOW DAM NEAR GUTHRIE, TX					PEST-OC-A:						
		7/12/2007	7/13/2007	20:24	MY	tcmx (Surr)		74	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A
			7/13/2007		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A
			7/13/2007		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A
			7/13/2007		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
	7/13/2007		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A		

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200702811	GAGE NUMBER: 07311783 S WICHITA RIVER BELOW LOW FLOW DAM NEAR GUTHRIE, TX	7/12/2007	7/13/2007		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	1,2-dcbpl (Surr)		106	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A
200702812	GAGE NUMBER: 07311700 N WICHITA RIVER NEAR TRUSCOTT, TX	7/12/2007	METALS-TULSA:									
			7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Barium, Dissolved		0.100	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Barium, Total		0.140	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Copper, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Iron, Dissolved		0.0800	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	14:30	JL	Iron, Total		0.835	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	15:40	JL	Lead, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Lead, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Manganese, Dissolved	U	BDL	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	14:30	JL	Manganese, Total	U	BDL	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	15:40	JL	Nickel, Dissolved	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	14:30	JL	Nickel, Total	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
7/25/2007	15:40	JL	Silver, Dissolved		0.0300	mg/L	0.0003	0.000300	200.7/6010B			

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-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

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 of data for Lab 200702812.

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-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Time, By, Parameter, Q Results, Units, MDL, SQL Method. Contains two main entries for turbidity and a large list of pesticide analysis results.

Laboratory Authorized Signature



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

Project #: W912BV-07-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

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 various metal analyses including Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Nickel, Silver, Zinc, Mercury, Selenium, and Silicon Dioxide.

Laboratory Authorized Signature



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TULSA DISTRICT CORPS OF ENGINEERS
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TULSA, OK 74128-4609

Project #: W912BV-07-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Table with columns: Lab Number, Sample Identification, Date Sampled, Analysis Date, Time, Analyzed By, Parameter, Q, Results, Units, MDL, SQL Method. Contains two main sections: SALTS-TULSA and PEST-OC-A.

Laboratory Authorized Signature



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Project Name: JULY 2007 SAMPLING

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Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method	
200702813	GAGE NUMBER: 07311630 MIDDLE WICHITA RIVER NEAR GUTHRIE, TX	7/12/2007	7/13/2007		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			7/13/2007		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A	
			7/13/2007		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A	
			7/13/2007		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A	
			7/13/2007		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A	
			7/13/2007		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/13/2007		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/13/2007		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A	
			7/13/2007		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/13/2007		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A	
			7/13/2007		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A	
			7/13/2007		MY	1,2-dcbpl (Surr)			87	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A	
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX	7/12/2007	METALS-TULSA:										
			7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B	
			7/25/2007	14:30	JL	Arsenic, Total		0.0900	mg/L	0.009	0.00900	200.7/6010B	
			7/25/2007	15:40	JL	Barium, Dissolved		0.0900	mg/L	0.0006	0.000600	200.7/6010B	
			7/25/2007	14:30	JL	Barium, Total		0.0900	mg/L	0.0006	0.000600	200.7/6010B	
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B	
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B	
			7/25/2007	14:30	JL	Copper, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B	

Laboratory Authorized Signature



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Certificate of Analysis

ODEQ ID # 9953

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

Project #: W912BV-07-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analized By	Parameter	Q	Results	Units	MDL	SQL	Method
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX	7/12/2007	7/25/2007	15:40	JL	Iron, Dissolved		0.0250	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	14:30	JL	Iron, Total		0.470	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	15:40	JL	Lead, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Lead, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Manganese, Dissolved	U	BDL	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	14:30	JL	Manganese, Total		0.0800	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	15:40	JL	Nickel, Dissolved	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	14:30	JL	Nickel, Total	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	15:40	JL	Silver, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Silver, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Zinc, Dissolved	U	BDL	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Zinc, Total		0.0600	mg/L	0.0006	0.000600	200.7/6010B
			8/6/2007	17:05	JL	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/6/2007	16:00	JL	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			7/27/2007	18:43	OL	Selenium, Dissolved	U	BDL	mg/l	0.0014	0.00140	EPA_7440
			7/27/2007	20:12	OL	Selenium	U	BDL	mg/l	0.0014	0.00140	EPA_7740
			7/25/2007	14:30	JL	Silicon Dioxide (silica)		3.6	mg/l	0.006	0.006	200.7/6010B
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX					SALTS-TULSA:						
		7/12/2007	7/25/2007	13:34	JL	Calcium, Dissolved	B	868	mg/L	0.0039	0.00390	200.7/6010B
			7/25/2007	13:34	JL	Magnesium, Dissolved		226	mg/L	0.0006	0.000600	200.7/6010B
			7/27/2007	16:30	JL	Phosphorus, Total		0.290	mg/L	0.0096	0.00960	200.7/6010B
			7/25/2007	13:34	JL	Potassium, Dissolved		41.2	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	13:34	JL	Sodium, Dissolved	B	8170	mg/L	0.0018	0.00180	200.7/6010B
			7/27/2007	16:30	JL	Total Hardness		3371	mg/l	0.06	0.06	200.7/6010B
			7/19/2007	11:30	AP	Total Alkalinity		73.8	mg/l	2	2	EPA_310.1

Laboratory Authorized Signature



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Project #: W912BV-07-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL	Method
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX	7/12/2007	7/16/2007		ms	Chloride		7098	mg/l	0.383	0.383	EPA 9253
			7/12/2007	16:53	JL	Dissolved Oxygen		9.5	mg/l	0.1	0.1	EPA_360.1
			7/15/2007	10:30	KK	Fluoride		1.44	mg/L			EPA 340.1
			7/30/2007	13:00	MS/	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3
			7/12/2007	16:53	JL	pH		7.91	s.u.			EPA_150.1
			7/16/2007		ap	Sulfate		2150	mg/l	1.2	1.2	EPA_375.2
			7/20/2007	12:17	AP	Total Dissolved Solids		14800	mg/l	5.5	5.50	EPA_160.1
			7/17/2007		ap	Total Kjeldahl Nitrogen		1.46	mg/l	0.4	0.4	EPA_351.3M
			7/18/2007	11:30	AP	Total Suspended Solids		32.8	mg/l	1.7	1.7	EPA_160.2
			7/23/2007	17:00	MS	Turbidity		9.1	NTU	0.078	0.078	EPA_180.1
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX					PEST-OC-A:						
		7/12/2007	7/13/2007	22:23	MY	tcmx (Surr)		51	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Heptachlor	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Aldrin	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04	EPA_8081A
			7/13/2007		MY	Chlordane	U	BDL	ug/l	0.2	0.2	EPA_8081A
			7/13/2007		MY	Endosulfan I	U	BDL	ug/l	0.05	0.05	EPA_8081A
			7/13/2007		MY	Dieldrin	U	BDL	ug/l	0.09	0.09	EPA_8081A
			7/13/2007		MY	Endrin	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endosulfan II	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12	EPA_8081A

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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-T-001
Project Name: JULY 2007 SAMPLING

Date Received: 7/13/2007
Report Date: 8/7/2007

Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200702814	GAGE NUMBER: 07311600 N WICHITA RIVER NEAR PADUCAH, TX	7/12/2007	7/13/2007		MY	Methoxychlor	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	Endosulfan Sulfate	U	BDL	ug/l	0.1	0.1	EPA_8081A
			7/13/2007		MY	Endrin Ketone	U	BDL	ug/l	0.07	0.07	EPA_8081A
			7/13/2007		MY	1,2-dcbpl (Surr)		50	%Rec	70	70	EPA_8081A
			7/13/2007		MY	Toxaphene	U	BDL	ug/l	1.3	1.3	EPA_8081A
200702815	GAGE NUMBER: 07331600 DUPLICATE RED RIVER AT DENISON DAM NEAR DENISON, TX	7/13/2007	7/25/2007	15:40	JL	Arsenic, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Arsenic, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Barium, Dissolved		0.150	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Barium, Total		0.150	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	15:40	JL	Cadmium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Cadmium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Chromium, Dissolved	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	14:30	JL	Chromium, Total	U	BDL	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	15:40	JL	Copper, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Copper, Total		0.0300	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Iron, Dissolved		0.0350	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	14:30	JL	Iron, Total		0.110	mg/L	0.0008	0.000800	200.7/6010B
			7/25/2007	15:40	JL	Lead, Dissolved	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	14:30	JL	Lead, Total	U	BDL	mg/L	0.009	0.00900	200.7/6010B
			7/25/2007	15:40	JL	Manganese, Dissolved	U	BDL	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	14:30	JL	Manganese, Total		0.0800	mg/L	0.0001	0.000100	200.7/6010B
			7/25/2007	15:40	JL	Nickel, Dissolved	U	BDL	mg/L	0.0069	0.00690	200.7/6010B

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	Analyst	Parameter	Q	Results	Units	MDL	SQL	Method
200702815	GAGE NUMBER: 07331600 DUPLICATE RED RIVER AT DENISON DAM NEAR DENISON, TX	7/13/2007	7/25/2007	14:30	JL	Nickel, Total	U	BDL	mg/L	0.0069	0.00690	200.7/6010B
			7/25/2007	15:40	JL	Silver, Dissolved	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	14:30	JL	Silver, Total	U	BDL	mg/L	0.0003	0.000300	200.7/6010B
			7/25/2007	15:40	JL	Zinc, Dissolved	U	BDL	mg/L	0.0006	0.000600	200.7/6010B
			7/25/2007	14:30	JL	Zinc, Total	U	BDL	mg/L	0.0006	0.000600	200.7/6010B
			8/6/2007	17:05	JL	Mercury, Dissolved	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			8/6/2007	16:00	JL	Mercury	U	BDL	mg/l	0.0002	0.0002	EPA_245.1
			7/27/2007	18:55	OL	Selenium, Dissolved	J	0.0021	mg/l	0.0014	0.0014	EPA_7440
			7/27/2007	20:15	OL	Selenium	U	BDL	mg/l	0.0014	0.00140	EPA_7740
			7/25/2007	14:30	JL	Silicon Dioxide (silica)		9.5	mg/l	0.006	0.006	200.7/6010B
200702815	GAGE NUMBER: 07331600 DUPLICATE RED RIVER AT DENISON DAM NEAR DENISON, TX	7/13/2007	SALTS-TULSA:									
			7/25/2007	13:34	JL	Calcium, Dissolved	B	74.7	mg/L	0.0039	0.00390	200.7/6010B
			7/25/2007	13:34	JL	Magnesium, Dissolved		26.0	mg/L	0.0006	0.000600	200.7/6010B
			7/27/2007	16:30	JL	Phosphorus, Total		0.180	mg/L	0.0096	0.00960	200.7/6010B
			7/25/2007	13:34	JL	Potassium, Dissolved		6.70	mg/L	0.0009	0.000900	200.7/6010B
			7/25/2007	13:34	JL	Sodium, Dissolved	B	156	mg/L	0.0018	0.00180	200.7/6010B
			7/27/2007	16:30	JL	Total Hardness		361.9	mg/l	0.06	0.06	200.7/6010B
			7/19/2007	11:30	AP	Total Alkalinity		114	mg/l	2	2	EPA_310.1
			7/16/2007		ms	Chloride		207	mg/l	0.383	0.383	EPA 9253
			7/13/2007	16:51	JL	Dissolved Oxygen		7.8	mg/l	0.1	0.1	EPA_360.1
			7/15/2007	10:30	KK	Fluoride		0.320	mg/L			EPA 340.1
			7/30/2007	13:00	MS/	Nitrate/nitrite As Nitroge	U	BDL	mg/l	1.2	1.2	EPA 353.3

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Lab Number	Sample Identification	Date Sampled	Analysis Date	Time	By	Parameter	Q	Results	Units	MDL	SQL Method	
200702815	GAGE NUMBER: 07331600 DUPLICATE RED RIVER AT DENISON DAM NEAR DENISON, TX	7/13/2007	7/13/2007	16:51	JL	pH		7.64	s.u.		EPA_150.1	
			7/16/2007		ap	Sulfate		135	mg/l	1.2	1.2 EPA_375.2	
			7/20/2007		12:17	AP	Total Dissolved Solids		604	mg/l	5.5	5.50 EPA_160.1
			7/17/2007			ap	Total Kjeldahl Nitrogen		2.24	mg/l	0.4	0.4 EPA_351.3M
			7/18/2007		11:30	AP	Total Suspended Solids		7	mg/l	1.7	1.7 EPA_160.2
		7/23/2007		17:00	MS	Turbidity		11.2	NTU	0.078	0.078 EPA_180.1	
200702815	GAGE NUMBER: 07331600 DUPLICATE RED RIVER AT DENISON DAM NEAR DENISON, TX					PEST-OC-A:						
		7/13/2007	7/13/2007	23:02	MY	tcmx (Surr)		88	%Rec	70	70	EPA_8081A
			7/13/2007			MY	Alpha-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			7/13/2007			MY	Beta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			7/13/2007			MY	Gamma-Bhc	U	BDL	ug/l	0.04	0.04 EPA_8081A
			7/13/2007			MY	Delta-Bhc	U	BDL	ug/l	0.05	0.05 EPA_8081A
			7/13/2007			MY	Heptachlor	U	BDL	ug/l	0.04	0.04 EPA_8081A
			7/13/2007			MY	Aldrin	U	BDL	ug/l	0.04	0.04 EPA_8081A
			7/13/2007			MY	Heptachlor Epoxide	U	BDL	ug/l	0.04	0.04 EPA_8081A
			7/13/2007			MY	Chlordane	U	BDL	ug/l	0.2	0.2 EPA_8081A
			7/13/2007			MY	Endosulfan I	U	BDL	ug/l	0.05	0.05 EPA_8081A
			7/13/2007			MY	Dieldrin	U	BDL	ug/l	0.09	0.09 EPA_8081A
			7/13/2007			MY	Endrin	U	BDL	ug/l	0.07	0.07 EPA_8081A
			7/13/2007			MY	Endosulfan II	U	BDL	ug/l	0.07	0.07 EPA_8081A
		7/13/2007			MY	Endrin Aldehyde	U	BDL	ug/l	0.12	0.12 EPA_8081A	
		7/13/2007			MY	Methoxychlor	U	BDL	ug/l	0.07	0.07 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 data for Endosulfan Sulfate, Endrin Ketone, 1,2-dcbpl (Surr), and Toxaphene.

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.

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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