

APPENDIX 2

COCKFIELD AQUIFER SUMMARY

BASELINE MONITORING PROJECT, EPA FY'99

(July 1998 Through June 1999)

PART II

OF

TRIENNIAL SUMMARY REPORT

FOR THE

ENVIRONMENTAL EVALUATION DIVISION

OF

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PARTIAL FUNDING PROVIDED THROUGH CWA 106 GRANT

COCKFIELD AQUIFER SUMMARY

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BACKGROUND

To better assess the water quality of a particular aquifer at a given point in time, an attempt was made during the project year to sample all project wells producing from a common aquifer in a narrow time frame. Also, to more conveniently and economically promulgate those data collected, these aquifer summaries will make up the project Triennial Summary Report.

Figure II-1 shows the geographic locations of the Cockfield Aquifer and the associated project wells, whereas Table II-1 lists the wells in the aquifer along with their total depths and the use made of produced waters and the date sampled.

These data show that in November of 1998 and January of 1999, twelve project wells were sampled which produce from the Cockfield Aquifer. Of these twelve wells, nine are classified as Public Supply, two are classified as Irrigation, and one is Domestic. The wells are located in nine parishes from northeast to western Louisiana.

PROJECT FIELD AND ANALYTICAL PARAMETERS

The field parameters that are checked at each sampling site and the list of water quality parameters that are analyzed in the laboratory are shown in Table II-2. Those project inorganic (total metals) parameters analyzed in the laboratory are listed in Table II-3. These tables also show the field and analytical results determined for each analyte.

In addition to the analytical parameters mentioned above, a list of project analytical parameters that include three other categories of compounds (Volatiles, Semi-volatiles, and Pesticides/PCB's) is included. Due to the large number of analytes in these three categories, tables were not prepared for each well. However, in order for the reader to be aware of the total list of analytes, Tables II-4, II-5, and II-6 were included in this summary. These tables list the project analytes along with their Practical Quantitation Limits (PQLs) used during processing.

DISCUSSION OF WATER QUALITY DATA

FEDERAL PRIMARY DRINKING WATER STANDARDS: Under the Federal Safe Drinking Water Act, EPA has established Maximum Contaminant Levels (MCL) for pollutants that may pose a health risk in public drinking water. An MCL is the highest level of a contaminant that EPA allows in public drinking water. MCLs ensure that drinking water does not pose either a short-term or long-term health risk. While not all wells sampled were public supply wells, this Office does use the MCLs as a benchmark for further evaluation. Laboratory data show that four project water wells in the Cockfield Aquifer exceeded the Federal Maximum Contaminant Level (MCL) of 6 parts per billion (ppb) for Bis(2-ethylhexyl)phthalate (BEHP).

W-5099Z – 15 ppb

JA-207 – 13 ppb

UN-167 – 19 ppb

W-192 – 19 ppb

It is believed that these concentrations are due to field/laboratory contamination, however a final determination will be made pending further analyses and will be noted in an addendum to this summary.

Those project wells reporting Turbidity levels of >1 NTU, do not exceed the MCL of 1.0, as this primary standard applies to surface water systems only.

FEDERAL SECONDARY DRINKING WATER STANDARDS: EPA has set secondary standards which are defined as non-enforceable taste, odor or appearance guidelines. Field and laboratory data contained in Tables II-2 and II-3 show that six of the

wells sampled in the Cockfield Aquifer exceeded the Secondary Maximum Contaminant Level (SMCL) for Iron, five of the wells exceeded the SMCL for Total Dissolved Solids (TDS), and two wells exceeded the SMCL for Color.

IRON (SMCL=300 ppb):

CA-129 – 6,930 ppb

RI-127 – 758 ppb

RI-246 – 864 ppb, 901 ppb (duplicate sample)

MO-479 – 2,012 ppb

W-5099Z – 1,488 ppb

UN-167 – 8,049 ppb

TDS (SMCL=500 ppm):

RI-127 – 570 ppm

WC-487 – 550 ppm

EC-233 – 516 ppm

SA-495 – 648 ppm

W-192 – 562 ppm

COLOR (SMCL=15 PCU):

SA-495 – 30 PCU

W-192 – 20 PCU

FEDERAL LEAD ACTION LEVEL: Under the Federal Safe Drinking Water Act, EPA has established an Action Level of 15 ppb for Lead to ensure that this contaminant does not pose either a short-term or long-term health risk in drinking water. Laboratory data contained in Table II-3 show that two of the wells sampled in the Cockfield Aquifer exceeded the Action Level for Lead.

WC-487 – 18.1 ppb

UN-167 – 16.2 ppb

In sampling events subsequent to those during which the results for WC-487 were found, a trace metal grade acid was used to preserve the samples. This is because it was this Office's opinion that the exceedances were due to the grade of acid that was being used to preserve the samples. The laboratory analyses from these subsequent sampling events did not reveal the same large amount of Lead exceedances. Also, WC-487 was resampled using this trace metal grade of acid as a preservative. The sample results showed Lead levels less than the detection limit of 10.0 ppb. Therefore, it is the opinion of this Office that the Lead exceedance exhibited in the sample results from well WC-487 is due to the grade of acid that was being used to preserve the samples at that time.

UN-167 was sampled using the trace metal grade acid, therefore the Lead value is considered valid. Plans are being made to resample this well to make a final determination as to the occurrence of this compound. The results of the resample and any further actions will be noted in an addendum to this summary.

VOLATILE ORGANICS WHICH HAVE NO ESTABLISHED MCL: The following values were exhibited in Project well JA-207. The listed Volatile Organic Compounds do not have MCLs established for them.

Chloroform – 37.3 ppb

Bromodichloromethane – 36.8 ppb

Dibromomethane – 1.8 ppb

Dibromochloromethane – 30.1 ppb

Bromoform – 4.9 ppb

SELECTED WATER QUALITY MAPS: For the reader's convenience, maps showing the contoured values for pH, TDS, Chloride, and Iron are included in this summary report in Figures II-2 through II-5.

SUMMARY AND RECOMMENDATIONS

In summary, the analytical data show that the ground water from this aquifer is of good quality when considering short-term or long-term health risks, with the exception of the lead concentration found in the ground water located at project well UN-167 and the unconfirmed BEHP exceedances discussed previously. However, this aquifer is of fair quality when considering taste, odor or appearance guidelines. An addendum will be attached to this summary whenever a final determination is made on the BEHP exceedances and the Lead exceedance at project well UN-167.

It is recommended that the several project wells assigned to the Cockfield Aquifer be resampled as planned, in approximately three years. In addition, several wells should be added to those currently sampled to increase the well density for this aquifer.

Table II-1 List of Project Wells Sampled

COCKFIELD AQUIFER PROJECT WELLS							
PROJECT NUMBER	PARISH	WELL NUMBER	DATE SAMPLED	WELL OWNER	DEPTH (feet)	WELL USE	AQUIFER
198802	CALDWELL	CA-129	11/09/1998	CITY OF COLUMBIA	266	PUBLIC SUPPLY	COCKFIELD
198610	EAST CARROLL	EC-233	11/10/1998	TOWN OF LAKE PROVIDENCE	371	PUBLIC SUPPLY	COCKFIELD
199610	JACKSON	JA-207	01/05/1999	PRIVATE OWNER	91	IRRIGATION	COCKFIELD
199608	MOREHOUSE	MO-479	11/10/1998	BAYOU BONNE IDEE WATER SYSTEM	258	PUBLIC SUPPLY	COCKFIELD
199309	RICHLAND	RI-127	11/09/1998	DELHI WATER WORKS	416	PUBLIC SUPPLY	COCKFIELD
199609	RICHLAND	RI-246	11/09/1998	START WATER SYSTEM	190	PUBLIC SUPPLY	COCKFIELD
199613	SABINE	SA-495	01/04/1999	GLENWOOD VOL. FIRE DEPT.	111	PUBLIC SUPPLY	COCKFIELD
199307	UNION	UN-167	01/13/1999	PRIVATE OWNER	110	IRRIGATION	COCKFIELD
199215	WINN	W-192	01/04/1999	RED HILL WATER SYSTEM	210	PUBLIC SUPPLY	COCKFIELD
199612	WINN	W-198	01/04/1999	ATLANTA WATER SYSTEM	445	PUBLIC SUPPLY	COCKFIELD
199611	WINN	W-5099Z	01/04/1999	PRIVATE OWNER	138	DOMESTIC	COCKFIELD
199805	WEST CARROLL	WC-487	11/10/1998	TOWN OF OAK GROVE	396	PUBLIC SUPPLY	COCKFIELD

Table II-2 Summary of Water Quality Data

COCKFIELD AQUIFER WATER QUALITY PARAMETERS																		
FIELD PARAMETERS																		
WELL NUMBER	TEMP. °C	pH SU	COND. mmhos/cm	SAL. ppt	TSS ppm	TDS ppm	ALK. ppm	HARD. ppm	TURB. NTU	COND. umhos/cm	COLOR PCU	Cl ppm	SO4 ppm	TOT. P ppm	TKN ppm	TOC ppm	NH3 (as N) ppm	NITRITE-NITRATE (as N) ppm
CA-129	20.12	5.62	0.328	0.16	<4.0	298.0	83.4	90.5	9.3	316.0	20.0	22.40	45.70	0.36	0.59	2.20	0.22	0.03
EC-233	19.78	7.25	0.789	0.39	<4.0	516.0	376.0	123.0	1.3	822.0	5.0	45.10	<1.25	0.05	1.20	2.80	0.83	0.02
JA-207	NO DATA	8.44	0.531	0.26	<4.0	356.0	204.0	<5.0	1.3	569.0	5.0	36.00	25.70	0.37	0.31	6.50	0.12	0.04
MO-479	19.74	6.96	0.645	0.31	<4.0	404.0	319.0	172.0	22.0	660.0	10.0	26.90	5.40	0.12	0.24	2.20	0.21	0.03
RI-127	22.13	7.42	0.861	0.42	<4.0	570.0	360.0	<5.0	2.0	881.0	10.0	73.20	<1.25	0.11	0.84	<2.00	0.58	0.02
RI-246	19.72	6.75	0.465	0.22	<4.0	318.0	201.0	156.0	7.3	477.0	10.0	24.60	17.80	<0.05	0.34	<2.00	0.30	0.02
RI-246*	19.72	6.75	0.465	0.22	<4.0	312.0	202.0	158.0	8.4	477.0	10.0	24.50	17.80	0.07	0.30	2.30	0.25	0.02
SA-495	18.72	6.45	0.939	0.47	8.5	648.0	208.0	246.0	39.0	1021.0	30.0	51.40	225.00	4.15	0.35	7.90	2.65	<0.02
UN-167	19.18	5.37	0.091	0.04	10.5	90.0	9.7	18.7	24.0	93.8	5.0	7.60	15.00	0.05	3.06	<2.00	<0.10	0.65
W-192	18.87	8.35	0.849	0.42	<4.0	562.0	319.0	<5.0	1.7	918.0	20.0	71.70	33.60	0.45	0.45	4.30	0.23	0.02
W-198	21.50	7.95	0.379	0.18	<4.0	270.0	191.0	<5.0	<5.0	403.0	NO DATA	150.00	<1.25	1.15	0.41	7.40	0.32	0.02
W-5099Z	16.76	6.29	0.353	0.17	<4.0	574.0	74.9	100.0	4.1	376.0	10.0	30.90	54.70	0.23	0.62	4.20	0.40	<0.02
WC-487	20.65	7.07	0.860	0.42	<4.0	550.0	341.0	35.1	2.4	889.0	5.0	84.30	1.30	<0.05	0.06	<2.00	<0.10	0.06

* Denotes duplicate sample.

Table II-3 Summary of Inorganic Data

COCKFIELED AQUIFER INORGANIC (TOTAL METALS) DATA															
WELL NUMBER	ARSENIC ppb	SILVER ppb	BARIUM ppb	BERYLLIUM ppb	CADMIUM ppb	CHROMIUM ppb	COPPER ppb	IRON ppb	MERCURY ppb	NICKEL ppb	ANTIMONY ppb	SELENIUM ppb	LEAD ppb	THALLIUM ppb	ZINC ppb
CA-129	<5.0	<1.0	124.0	<1.0	<5.0	<5.0	<5.0	6,930.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	<10.0
EC-233	<5.0	<1.0	274.0	<1.0	<1.0	<5.0	<5.0	193.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	<10.0
JA-207	<10.0	<1.0	<10.0	<1.0	<1.0	<5.0	<5.0	56.7	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	<10.0
MO-479	<5.0	<1.0	345.0	<1.0	<1.0	<5.0	<5.0	2,012.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	27.4
RI-127	<5.0	<1.0	26.2	<1.0	<1.0	<5.0	<5.0	758.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	21.6
RI-246	<5.0	<1.0	144.0	<1.0	<1.0	<5.0	<5.0	864.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	60.0
RI-246*	<5.0	<1.0	145.0	<1.0	<1.0	<5.0	<5.0	901.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	37.5
SA-495	<10.0	<1.0	<5.0	<1.0	<1.0	5.0	21.5	200.6	<0.05	5.5	<5.0	<5.0	10.2	<5.0	<10.0
UN-167	<5.0	<1.0	156.0	<1.0	1.0	<5.0	<5.0	8,049.0	<5.00	6.7	<5.0	<5.0	16.2	<5.0	<10.0
W-192	<10.0	<1.0	14.2	<1.0	<1.0	<5.0	5.0	61.5	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	56.1
W-198	<10.0	<1.0	6.7	<1.0	<1.0	<5.0	<5.0	79.6	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	12.4
W-5099Z	<10.0	<1.0	352.0	<1.0	2.8	<5.0	12.7	1,488.0	<0.05	<5.0	<5.0	<5.0	<10.0	<5.0	13.1
WC-487	<5.0	<1.0	65.5	<1.0	<1.0	<5.0	8.4	285.0	<0.05	<5.0	<5.0	<5.0	18.1	<5.0	163.8

* Denotes duplicate sample.

Table II-4 List of VOC Analytical Parameters
BASELINE MONITORING PROJECT

VOLATILE ORGANICS BY EPA METHOD 8260

COMPOUNDS	PQL (ppb)*
DICHLOROFLUOROMETHANE	5
CHLOROMETHANE	5, 2
VINYL CHLORIDE	5, 2
BROMOMETHANE	5, 2
CHLOROETHANE	5, 2
TRICHLOROFLUOROMETHANE	5
1,1-DICHLOROETHENE	5, 2
METHYLENE CHLORIDE	5, 2
TRANS-1,2-DICHLOROETHENE	5, 2
1,1-DICHLOROETHANE	5, 2
2,2 DICHLOROPROPANE	5, 2
CIS-1,2 DICHLOROETHENE	5, 2
BROMOCHLOROMETHANE	5, 2
CHLOROFORM	5, 2
1,1,1-TRICHLOROETHANE	5, 2
1,1 DICHLOROPROPENE	5, 2
CARBON TETRACHLORIDE	5, 2
BENZENE	5, 2
1,2-DICHLOROETHANE	5, 2
TRICHLOROETHENE	5, 2
1,2-DICHLOROPROPANE	5, 2
BROMODICHLOROMETHANE	5, 2
DIBROMOMETHANE	5, 2
CIS-1,3-DICHLOROPROPENE	5, 2
TOLUENE	5, 2
TRANS-1,3-DICHLOROPROPENE	5, 2
1,1,2-TRICHLOROETHANE	5, 2
1,3--DICHLOROPROPANE	5, 2
TETRACHLOROETHENE	5, 2
1,2-DIBROMOETHANE	5, 2
DIBROMOCHLOROMETHANE	5, 2
CHLOROBENZENE	5, 2
ETHYLBENZENE	5, 2
1,1,1,2-TETRACHLOROETHANE	5, 2
P&M XYLENE	10, 4
O-XYLENE	5, 2
STYRENE	5, 2

* Where there are two numbers, the first number denotes the PQL for November's sampling and the second number is the PQL for January's sampling.

Table II-4 (Cont'd)
Volatile Organic (VOC) Parameters

COMPOUNDS	PQL (ppb)*
BROMOFORM	5, 2
ISOPROPYLBENZENE	5, 2
1, 1, 2, 2-TETRACHLOROMETHANE	5, 2
1, 2, 3, -TRICHLOROPROPANE	5, 2
BROMOBENZENE	5, 2
n-PROPYLBENZENE	5, 2
2-CHLOROTOLUENE	5, 2
4-CHLOROTOLUENE	5, 2
1, 3, 5-TRIMETHYLBENZENE	5, 2
TERT-BUTYLBENZENE	5, 2
1, 2, 4-TRIMETHYLBENZENE	5, 2
SEC-BUTYLBENZENE	5, 2
P-ISOPROPYLTOLUENE	5, 2
1, 3-DICHLOROBENZENE	5, 2
1, 4-DICHLOROBENZENE	5, 2
n-BUTYLBENZENE	5, 2
1, 2-DIBROMO-3-CHLOROPROPANE	5, 2
NAPHTHALENE	5, 2
1, 2, 4-TRICHLOROBENZENE	5, 2
HEXACHLOROBUTADIENE	5, 2
1, 2-DICHLOROBENZENE	5, 2
1, 2, 3-TRICHLOROBENZENE	5, 2

PQL = Practical Quantitation Limit
 ppb = parts per billion

* Where there are two numbers, the first number denotes the PQL for November's sampling and the second number is the PQL for January's sampling.

**Table II-5 List of Semi-volatile Analytical Parameters
BASELINE MONITORING PROJECT**

SEMIVOLATILE ORGANICS BY EPA METHOD 8270

COMPOUNDS	PQL (ppb)
N-Nitrosodimethylamine	10
2-Picoline	10
Methyl methanasulfonate	10
Ethyl methanesulfonate	20
Phenol	10
Aniline	10
Bis(2-chloroethyl)ether	10
2-Chlorophenol	10
1,3-Dichlorobenzene	10
1,4-Dichlorobenzene	10
Benzyl alcohol	10
1,2-Dichlorobenzene	10
2-Methylphenol	10
Bis(2-chloroisopropyl)ether	10
4-Methylphenol	10
N-Nitroso-di-n-propylamine	10
Hexachloroethane	20
Acetophenone	10
Nitrobenzene	10
N-Nitrosopiperidine	20
Isophorone	10
2,4-Dimethylphenol	10
2-Nitrophenol	10
Benzoic acid	50
Bis(2-chloroethoxy)methane	10
2,4-Dichlorophenol	10
a,a-Dimethylphenethylamine	10
1,2,4-trichlorobenzene	10
Benzidine	50
Pyrene	10
p-Dimethylaminoazobenzene	10
Butylbenzylphthalate	10
Bis(2-ethylhexyl)phthalate	10

Table II-5 (Cont'd)
Semivolatile Parameters

COMPOUNDS	PQL (ppb)
3,3'-Dichlorobenzidine	20
Benzo(a)anthracene	10
Chrysene	10
Di-n-octylphthalate	10
7,12-Dimethylbenz(a)anthracene	10
Benzo(b)fluoranthene	10
Benzo(k)fluoranthene	10
Benzo(a)pyrene	10
3-Methylcholanthrene	10
Dibenz(a,j)acridine	10
Indeno(1,2,3-cd)pyrene	10
Dibenz(a,h)anthracene	10
Benzo(g,h,i)perylene	10
Napthalene	10
4-Chloroaniline	10
2,6-Dichlorophenol	10
Hexachlorobutadiene	10
N-Nitrose-di-n-butylamine	10
4-Chloro-3-methylphenol	20
2-Methylnapthalene	10
Hexachlorocyclopentadiene	10
1,2,4,5-Tetrachlorobenzene	10
2,4,6-Trichlorophenol	10
2,4,5-Trichlorophenol	10
2-Chloronapthalene	10
1-Chloronapthalene	10
2-Nitroaniline	50
Dimethylphthalate	10
2,6-Dinitrotoluene	10
Acenaphthylene	10
3-Nitroaniline	50
4-Nitrophenol	50
2,4-Dinitrophenol	50
Acenaphthene	10

Table II-5 (Cont'd)
Semivolatile Parameters

COMPOUNDS	PQL (ppb)
2,4-Dinitrotoluene	10
Pentachlorobenzene	10
Dibenzofuran	10
1-Naphthylamine	10
Diethylphthalate	10
2,3,4,6-Tetrachlorophenol	10
2-Naphthylamine	10
4-Chlorophenyl phenyl ether	10
4-Nitroaniline	50
Fluorene	10
4,6-Dinitro-2-methylphenol	50
4-Aminobiphenyl	20
1,2-Diphenylhydrazine	10
Phenacetin	20
4-Bromophenyl phenyl ether	10
Hexachlorobenzene	10
Pronamide	10
N-Nitrosodiphenylamine/Diphenylamine	10
Pentachlorophenol	50
Pentachloronitrobenzene	20
Phenathrene	10
Anthracene	10
Di-n-butylphthalate	10
Fluoranthene	10

**Table II-6 List of Pesticide and PCB Analytical Parameters
BASELINE MONITORING PROJECT**

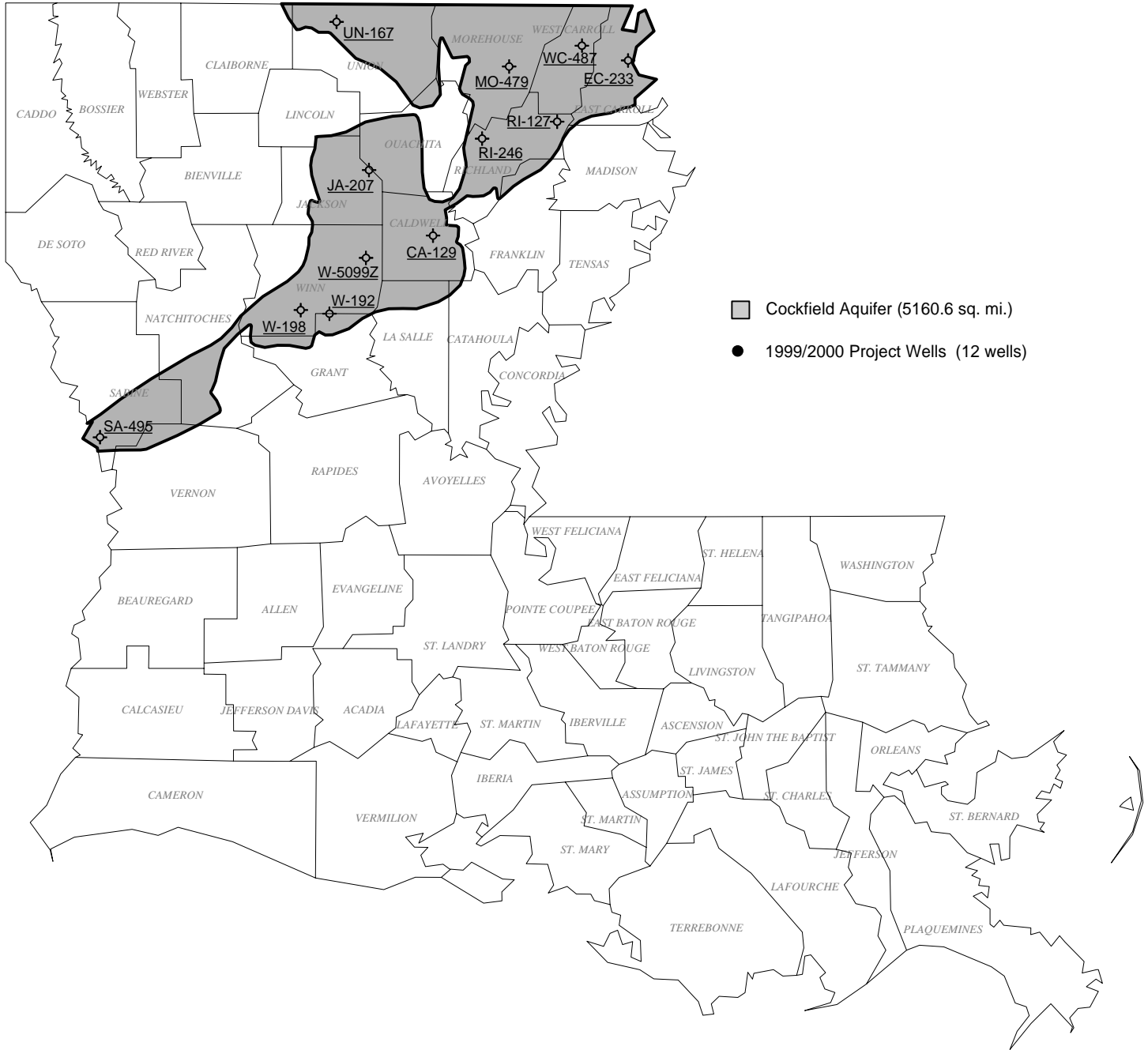
SEMIVOLATILE ORGANICS BY EPA METHOD 8270

COMPOUNDS	PQL (ppb)
Alpha BHC	2
Beta BHC	2
Gamma BHC	2
Delta BHC	2
Heptachlor	2
Aldrin	2
Heptachlor epoxide	2
Chlordane	2
Endosulfan I	2
4,4'-DDE	2
Dieldrin	2
4,4'DDD	2
Endrin	2
Toxaphene	2
Endosulfan II	2
Endrin Aldehyde	2
4,4'DDT	2
Endosulfan Sulfate	2

SEMIVOLATILE ORGANICS BY EPA METHOD 8270

COMPOUNDS	PQL (ppb)
PCB 1221/ PCB 1232	10
PCB 1016/ PCB 1242	10
PCB 1254	10
PCB 1248	10
PCB 1260	10

BASELINE MONITORING PROJECT WELLS OF THE COCKFIELD AQUIFER



Aquifer boundary digitized from Louisiana Hydrologic Map No. 2: Areal extent of Freshwater in Major Aquifers of Louisiana. Smoot, 1988; USGS/LDOTD Report 86-4150

Figure II-1 Location Plat, Cockfield Aquifer

COCKFIELD AQUIFER - pH

Baseline Monitoring Project, FY98-99

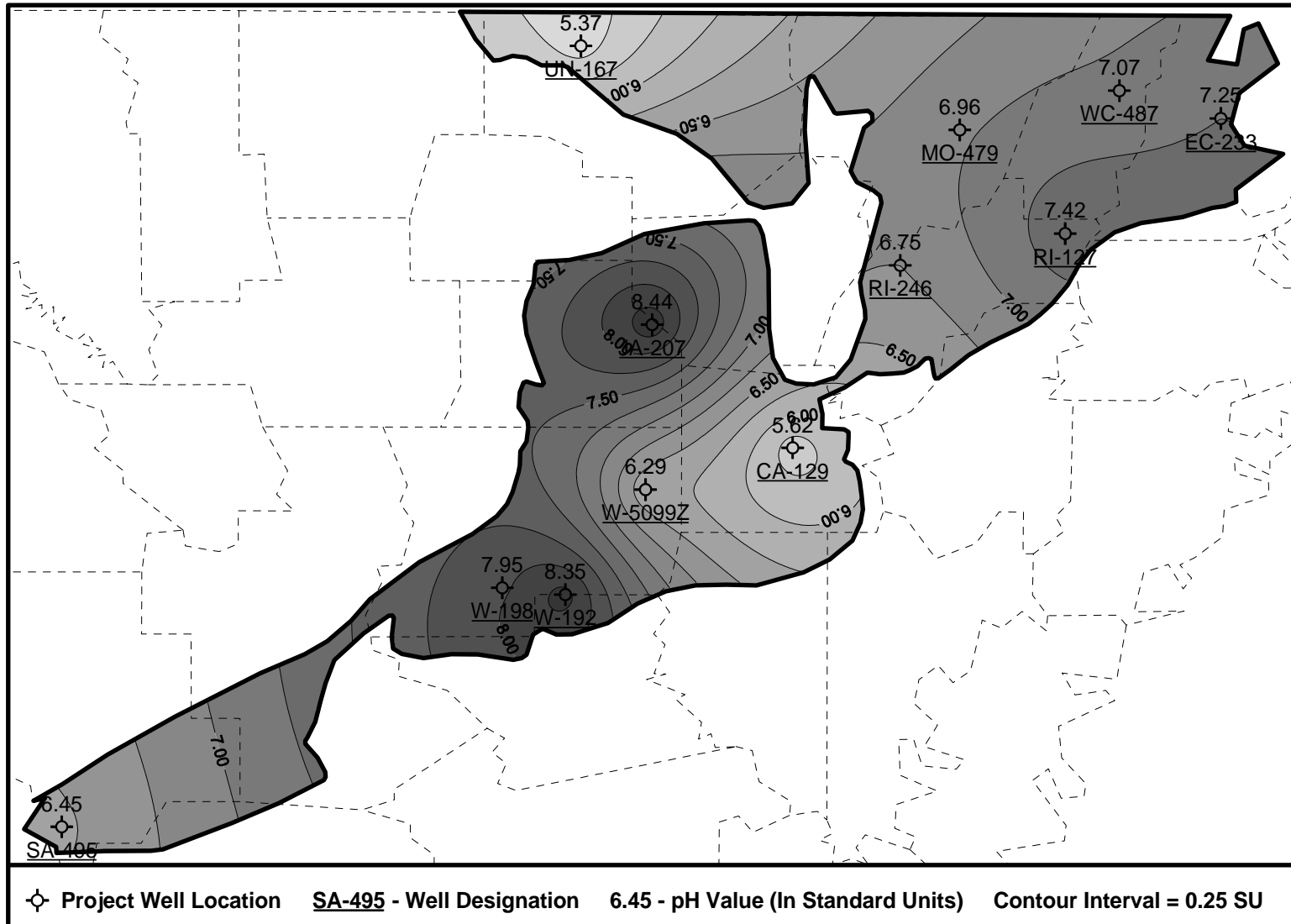


Figure II-2 Map of pH Data

COCKFIELD AQUIFER - TDS

Baseline Monitoring Project, FY98-99

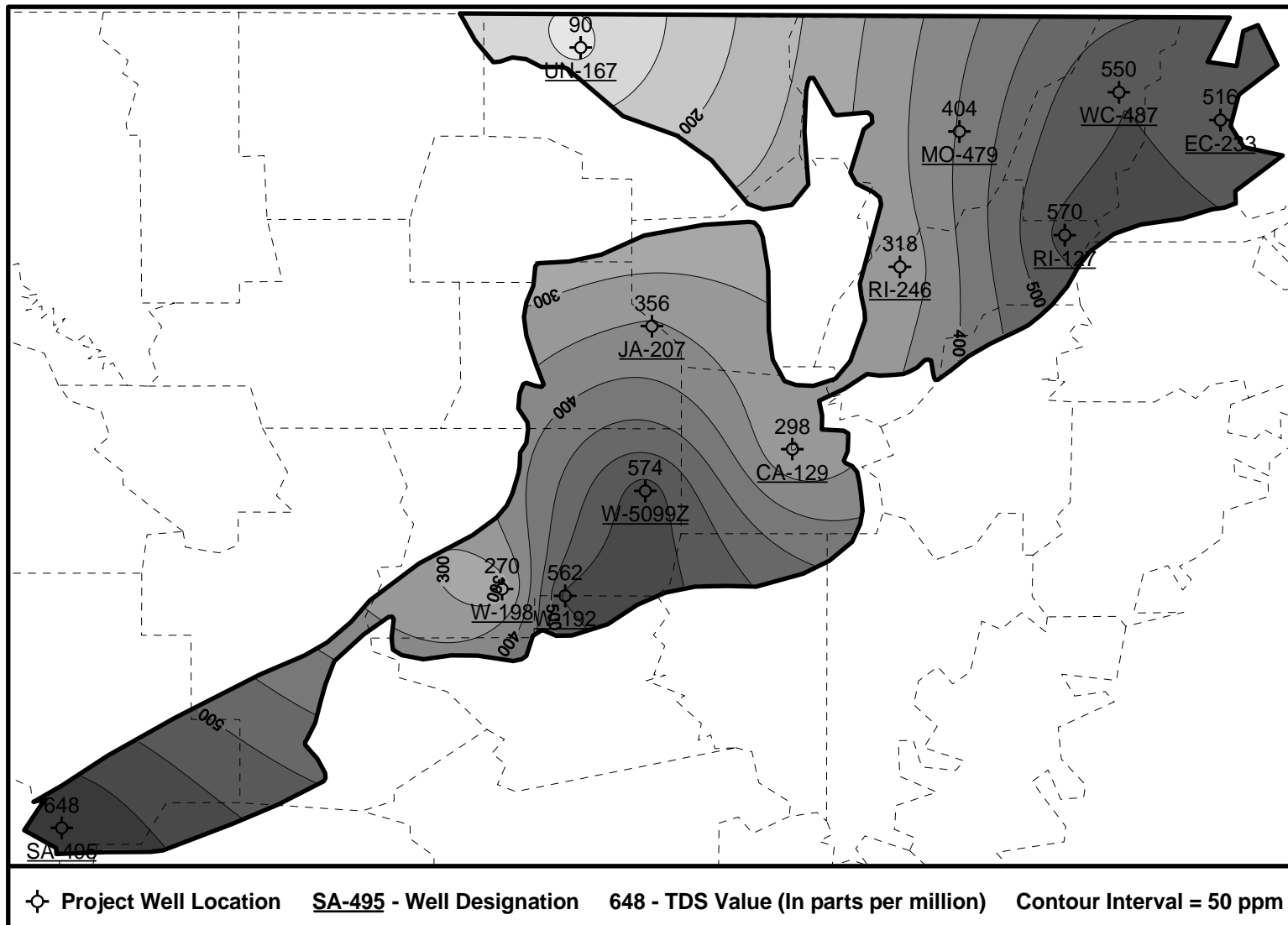


Figure II-3 Map of TDS Data

COCKFIELD AQUIFER - CHLORIDE

Baseline Monitoring Project, FY98-99

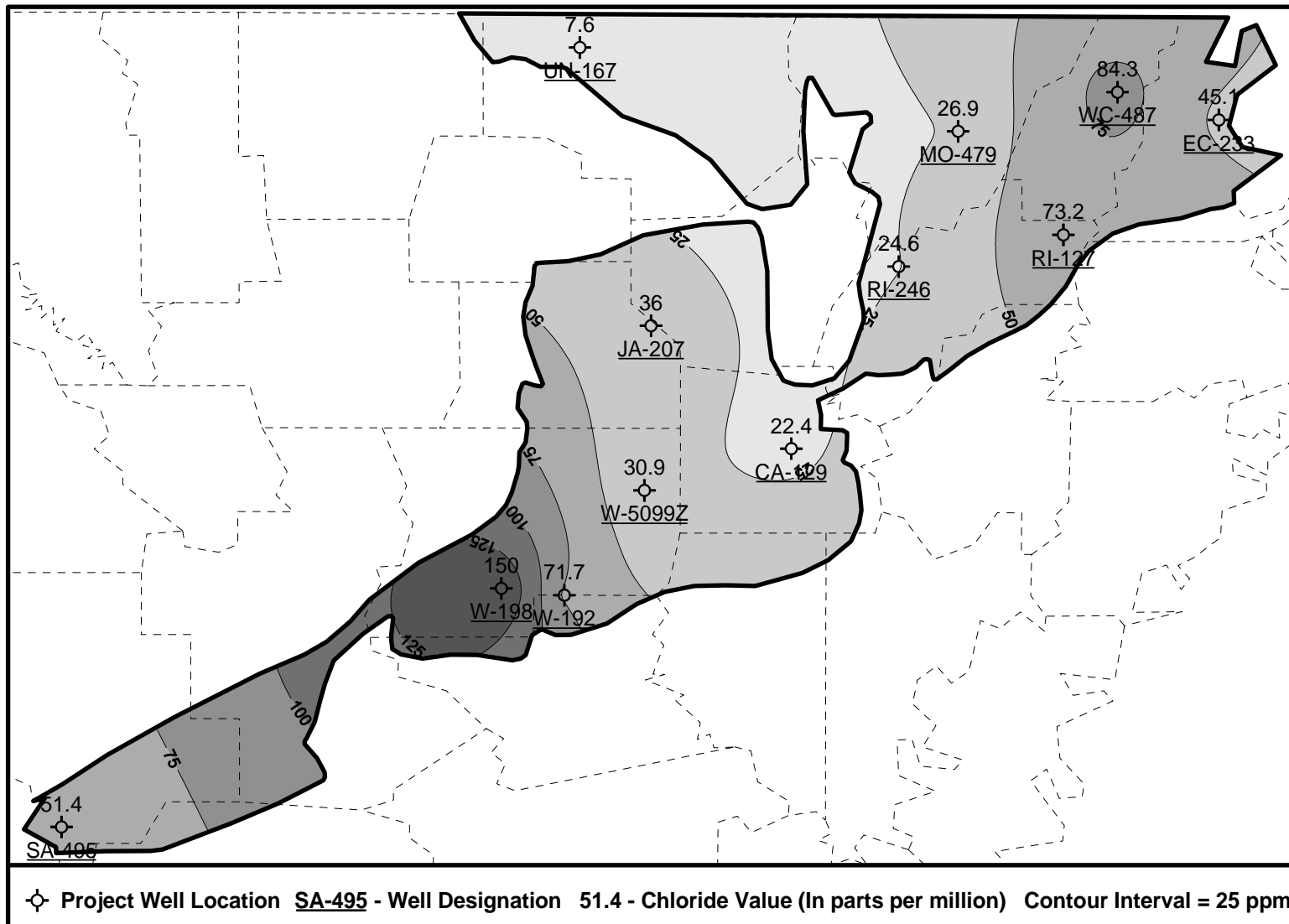


Figure II-4 Map of Chloride Data

COCKFIELD AQUIFER - IRON

Baseline Monitoring Project, FY98-99

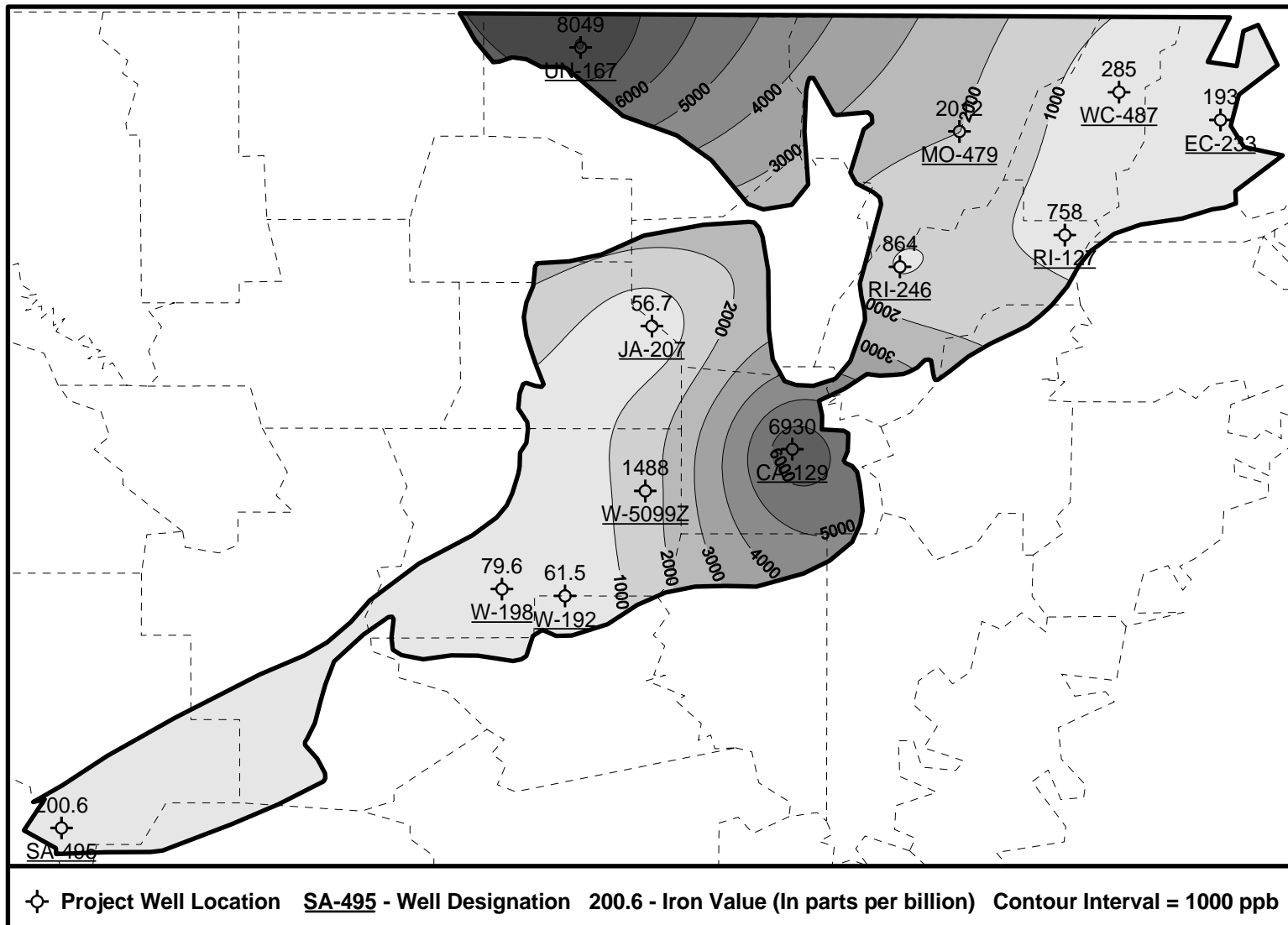


Figure II-5 Map of Iron Data

ADDENDUM TO APPENDIX 2, PART II

COCKFIELD AQUIFER SUMMARY

Laboratory analyses of the Baseline Monitoring Project (BMP) Fiscal Year '99 sampling of the Cockfield aquifer revealed a lead concentration of 16.2 parts per billion (ppb) for project well UN-167. In the subsequent resample of the well, lead was not detected. It is therefore this Office's opinion that the original lead value is a false positive and is due to laboratory or field contamination and not due to lead contamination in the ground water.

Laboratory analyses of the BMP Fiscal Year '99 sampling of the Cockfield aquifer revealed the following concentrations for bis(2-ethylhexyl)phthalate (BEHP) for the following project wells, all of which exceed the federal primary maximum contaminant level of 6 ppb for BEHP.

JA-207 – 13 ppb

UN-167 – 19 ppb

W-192 – 19 ppb

W-5099Z – 15 ppb

Field personnel of the Aquifer Evaluation and Protection (AEP) Section of LDEQ's Environmental Evaluation Division had sampled other wells around the same time period that these wells were sampled which had exhibited exceedances similar to the ones listed above. It was this Office's belief that all of these exceedances were due to laboratory contamination. Consequently, field personnel of the AEP Section selected a target group out of the wells that had exhibited BEHP exceedances and resampled. Project well W-192 listed above was one of the target wells. BEHP was not detected in the laboratory analyses from these resamples. Therefore, it is the opinion of this Office that the BEHP exceedances exhibited in the sample results from the wells above are due to laboratory contamination and not due to BEHP contamination in the ground water.