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Domestic Well Pesticide Sampling Project

2002

Lora Overacre

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
GEORGIA GEOLOGIC SURVEY

Atlanta
April, 2003

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PROJECT REPORT 51

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Lora Overacre

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**Atlanta
April, 2003**

PROJECT REPORT 51

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INTRODUCTION

HISTORIC BACKGROUND

The Pesticide Monitoring Network (PMN) is a joint project between the Georgia Department of Agriculture (GDA) and the Georgia Environmental Protection Division (EPD). The project was initiated in September 1993 to sample National Ambient Water Quality Assessment (NAWQA) monitoring wells installed by the U.S. Geological Survey (USGS) in the Apalachicola-Chattahoochee-Flint River Basins. The purpose was to provide baseline data to the GDA and EPD for the State Pesticide Management Plan. Past, present, and future well sampling provides information on the susceptibility of aquifers to non-point source pollution from agricultural practices, and permits evaluation of the impact of normal use and handling of pesticides on ground water at or near the site of application.

From 1993 through 1999, EPD sampled NAWQA monitoring wells in southwest Georgia. In addition to these monitoring wells, a small number of private drinking water wells and shallow irrigation wells within the Dougherty Plain were added to the PMN in 1998 and 1999, respectively. In April 1999, EPD discontinued sampling the monitoring and private wells and concentrated only on irrigation wells. The irrigation well sampling project was terminated in April 2000, and results of this project were summarized in PMN Project Report 43.

CURRENT STATUS

In May 2000, with the approval of GDA, EPD began sampling private drinking water wells for pesticide analysis. The project was re-named the "Domestic Well Pesticide Sampling Project." For sampling purposes, the state was divided into five regions shown in Figure 1. Initial sampling efforts were concentrated in the 15-county Dougherty Plain area of the Southwest Georgia region. As of December 2002, EPD had initiated sampling in all regions and had completed initial sampling in the Southwest, Central, and Southeast regions. EPD anticipates collection of domestic well water samples will be completed statewide by mid-2005, with the exception of 13 coastal counties that draw water from the confined Floridan Aquifer and are not included in this project. Attempts will be made to obtain one well water sample from each 10 square mile section of each county not served by public water. The results of this project will be used by EPD as part of its long term monitoring of ground-water quality, and by GDA for continued development and implementation of the State Pesticide Management Plan.

SCOPE OF WORK

WELL SELECTION

EPD published an article in the GDA Market Bulletin and in local Southwest Georgia papers in February and March 2000 to solicit volunteers for the Domestic Well Pesticide Sampling Project. The article requested well owners who were interested in having their well water tested for atrazine, alachlor, metolachlor, and simazine send a written request to the Georgia Geologic Survey. The article was subsequently revised to solicit volunteers statewide and was reprinted in the June, July, November and December 2000 Market Bulletins (Appendix A).

When responses from well owners are received by EPD, applicable information is entered into a computer database. A unique identification number is assigned to each well owner and the owner's location is plotted on a Georgia Department of Transportation county highway map. A ten square mile grid is then laid over the county map and, wherever possible, one well for every grid block is selected for sampling.

County tax assessor's offices are visited to identify up to three homeowners within each 10 square-mile grid that lacks volunteer homeowner response. Letters are sent to each of the homeowners soliciting participation in the project. If one or more responses are received within eight weeks, one of the wells is selected and added to the sampling list. No further effort is made to contact these homeowners or solicit additional volunteers.

The target for samples per county and the volunteer responses received through December 31, 2002 are presented in Appendix B. EPD will attempt to identify and sample one well within each ten square mile section of each county, but portions of some counties will not be sampled due to the presence of municipal water supply systems, military bases, lack of volunteer homeowners, uninhabited lands, and other factors.

FIELD PROCEDURES

An EPD representative contacts the well owner by telephone to schedule the sampling event. When visiting a domestic well site, EPD sampling personnel wear visible identification with a photograph. All sampling is performed outside, and the well owner's home is not entered. At each well site, the spigot closest to the well is used for sampling. Water temperature, conductivity and pH are measured with a Hanna HI 991310 multi-meter, and the sample is collected when pH and temperature remain constant for three consecutive readings. Time and corresponding pH, conductivity, and temperature measurements, as well as the latitude and longitude coordinates determined by a Garmin eTrex Legend GPS receiver, are recorded for each well on a field data sheet (Appendix C).

A ground water sample is collected from each well in a 150-milliliter (ml) high-density polyethylene (HDPE) bottle for immunoassay analysis by EPD (See Laboratory Methods). When a subsequent re-sampling is required a second immunoassay sample is collected along with additional samples (one 125ml opaque Teflon bottle and three 1 liter amber glass bottles) for analyses in the GDA laboratory. All sample bottles are labeled with the well identification

number, time, date, and test method. The samples are individually packaged in ziplock bags and stored in a cooler with ice until transfer to the GDA sample-receiving refrigerator or to the EPD refrigerator. A chain of custody form (Appendix D) is completed for each GDA sample and provided to the sample-receiving coordinator with the samples.

SAMPLE PRESERVATION

All samples are maintained on ice in the field and are refrigerated (to 4° C) in the laboratory prior to analyses. Prior to field sampling, GDA laboratory staff labels and prepares all sample bottles with the appropriate preservatives. The following table lists sample preservation methods.

TEST METHOD	CONTAINER	SAMPLE VOLUME	PRESERVATION	HOLDING TIME
RaPID Assay®	HPDE	150ml	Cool to 4° C	14 days
NPS* Method 4	Amber glass bottle	One liter	Cool to 4° C	28 days
EPA Methods 507/508	Amber glass bottle	One liter (combined)	Cool to 4° C 80mg sodium thiosulfate added to bottle prior to sampling	Method 507: 14 days Method 508: 7 days
EPA Method 531.1	Opaque Teflon bottle	60 ml	Cool to 4° C 1.8ml monochloroacetic acid buffer and 5mg sodium sulfite added before sampling	28 days
EPA Method 555	Amber glass bottle	One liter	Cool to 4° C Add 45mg sodium sulfite before sampling; after sampling add 1:1 HCl:reagent water to produce a pH of 2	14 days

*NPS= National Pesticide Survey

LABORATORY METHODS

All samples are refrigerated and are analyzed within the specified holding times. EPD uses the RaPID Assay® immunoassay technique as a screening test for the presence of the pesticides alachlor, atrazine, simazine, and metolachlor. Four tests are completed for each immunoassay sample, since each immunoassay test is specific for only one pesticide. Part of each sample is poured into a 30ml amber glass bottle labeled with the sample date and well identification number prior to conducting the immunoassay tests, and water samples for each immunoassay test are obtained from this bottle. The remainder of the sample in the 150ml field collection bottle is kept refrigerated as a reserve, and is disposed of after all immunoassay tests for the sample are completed.

Detailed instructions for the RaPID Assay® test method are provided with each kit (Appendix E). A programmed OHMICRON® RPA-1 spectrophotometer reads 0.1, 1 and 5 parts per billion

(ppb) standards supplied with each kit and internally generates an absorbance vs. concentration curve. The absorbance and concentration have an inverse linear relationship such that a sample with high absorbance has low concentration. The absorbance of each sample is read with the spectrophotometer, which subsequently plots the absorbance on an internally calculated curve to determine the sample's corresponding concentration in parts per billion (ppb). The spectrophotometer prints out a numbered list of samples with their absorbency and resulting concentration. Samples having concentrations greater than 0.1 ppb are read a second time to confirm the initial reading.

The immunoassay test method is sensitive to certain pesticides other than the one for which the specific test kit is designed. Because of the possibility of false-positive test results, all well samples testing positive at indicated concentrations above USEPA Method 507 method detection limits (MDLs) are confirmed by re-sampling the well and providing the sample to the GDA laboratory for independent analysis using Method 507. The immunoassay MDLs and limits of quantification (LOQs) vary with each pesticide, but in all cases are significantly lower than the Georgia drinking water maximum contaminant levels (MCLs) as shown in the following table.

PESTICIDE	MCL	MDL	LOQ (min)	LOQ (max)
Alachlor	2	0.05	0.1	5
Atrazine	3	0.046	0.1	5
Metolachlor	Not determined	0.05	0.1	5
Simazine	4	0.03	0.1	3

Note: MCL, MDL, and LOQ are in parts per billion (ppb)
MCL = Maximum Contaminant Level
MDL = Method Detection Limits
LOQ = Limit Of Quantification (there are minimum and maximum limits for immunoassay)

Samples provided GDA are analyzed in accordance with USEPA Methods 507 (nitrogen- and phosphorous-containing pesticides), 508 (organochlorine pesticides), 531.1 (urea derivative and carbamate pesticides), 555 (phenoxy acid herbicides), and National Pesticides Survey (NPS) Method 4 (additional pesticides). USEPA Method 531.1 and NPS Method 4 use high-pressure liquid chromatography to quantify analyte concentrations. USEPA Methods 507, 508, and 555 use gas chromatography to identify compounds and quantify concentrations. USEPA Method 507 is used to confirm any concentrations of alachlor, atrazine, metolachlor, or simazine in the samples. The method detection limits and limits of quantification for USEPA Method 507 are significantly below the Georgia drinking water maximum contaminant levels as shown in the following table.

PESTICIDE	MCL	MDL	LOQ
Alachlor	2	0.14	0.14
Atrazine	3	0.015	0.1
Metolachlor	Not determined	0.19	0.19
Simazine	4	0.014	0.1

USEPA Method 507 provides quantitative analysis for 42 pesticides and related chemicals in addition to the four pesticides evaluated for this project. USEPA Methods 508, 531.1, and 555 and NPS Method 4 identify 71 additional pesticides and chemicals. The additional pesticides and chemicals analyzed by GDA are listed on example GDA analysis reports presented in Appendix F. The Domestic Well Water Testing Project deals only with alachlor, atrazine, metolachlor, and simazine, and this report does not contain information related to other compounds that may have been encountered during well testing activities.

QUALITY CONTROL

This project employs both internal (EPD) and external (GDA) quality control procedures. At EPD, all immunoassay tests are performed in strict accordance with the manufacturer's procedures. The spectrophotometer serves as a quality control in that it will not process results of the immunoassay test if the correlation coefficient of the kit standard is below 0.99, as stated in the manufacturer's procedures. The EPD analyst confirms that the coefficient of variation (%CV) is less than 6% between the duplicate standards, and that the kit control sample falls within 20% of the concentration printed on the control bottle provided with each immunoassay kit. For each test run, the spectrophotometer prompts the analyst for a "blank" of wash solution to insure the machine is working properly. Immunoassay samples are analyzed within the USEPA recommended 14-day holding time typically used for pesticides or the well is re-sampled.

Wells are re-sampled when an immunoassay test indicates the possible presence of any of the four pesticides at concentrations above USEPA Method 507 LOQs. Duplicate samples are collected at this time; one is analyzed by EPD using the immunoassay method and the other by the GDA laboratory using USEPA Method 507. The GDA laboratory values are considered to be the definitive and accurate values in contrast with the immunoassay results, which are regarded as indicators for screening purposes.

For the GDA laboratory, one duplicate sample is taken for every ten re-samples collected. In addition, a field reagent blank (FRB) is prepared and analyzed alongside the collected samples for each of the GDA test methods. The FRB is a laboratory prepared blank of de-ionized water that is exposed to the same field conditions and preserved and refrigerated along with all other samples collected in a specific field sampling trip. All sample analyses are logged in a sample results notebook and entered into spreadsheet format.

Project information is entered into a Microsoft Access[®] database. Each well entry includes the well ID number, date of sampling, well owner information including county of residence, latitude/longitude coordinates for the sampling location, immunoassay results, and (if performed) results of USEPA Method 507 analyses for the four targeted pesticides. Database entry is by the individual responsible for sampling a particular well. Two associates periodically compare all entries to field notes and laboratory data sheets as a quality assurance check. After the complete data set for a well has been reviewed and any needed changes made to the database, the initials of the two individuals conducting the review are entered into the database to indicate that the review has taken place. Once the review has been completed the database is imported directly into ArcView[®] software and the sample distribution map (Figure 2) is generated.

RE-SAMPLE PROTOCOL AND REPORTING STATUS

With all immunoassay tests there is a difference between the minimum concentration at which the tests can detect a certain pesticide (MDL) and the concentration at which the pesticide can be accurately quantified (the limit of quantification or LOQ). For example, the immunoassay spectrophotometer printout will detect alachlor (and related compounds) at concentrations as low as 0.05 ppb (the MDL for alachlor), but the manufacturer states the spectrophotometer cannot accurately quantify alachlor at concentrations less than 0.1 ppb (the LOQ for alachlor). USEPA Method 507 cannot confirm concentrations between 0.05 and 0.1 ppb. If wells test within this range, EPD notifies the well owner that there is a possibility for a trace of a pesticide. No further sampling is conducted, since the concentration detected is too low to be confirmed. Should a pesticide concentration be above the immunoassay LOQ but below the USEPA Method 507 MDL, EPD informs the well owner that a trace of the particular pesticide may be present. No further sampling is conducted, since immunoassay results below USEPA Method 507 MDLs cannot be validated using USEPA Method 507.

Wells are re-sampled when immunoassay screening indicates a concentration greater than or equal to the USEPA Method 507 MDL for atrazine, alachlor, metolachlor, or simazine. A re-sampling event includes collecting the full array of GDA samples, a second EPD sample for immunoassay re-testing, and completing a data sheet that includes more information about the condition of the well and land use of the area immediately surrounding the well (Appendix G).

In the vast majority of instances, no pesticides are detected at concentrations above USEPA Method 507 MDLs and the well does not need to be re-sampled. The well owner is notified in writing of the sampling results within 60 days of the initial visit. If an EPD representative must revisit the well for re-sampling, the well owner is notified of the well's status after the second round of immunoassay and USEPA Method 507 tests have been completed.

If USEPA Method 507 confirms the presence of a particular pesticide at concentrations below the drinking water MCL, EPD notifies the local county agricultural extension agent and the Director of the University of Georgia's Home/Farm *A* Syst program (Dr. Mark Risse). The well owner is informed of the test results by phone and in writing, and is advised to call the county agricultural extension agent and Dr. Risse for further consultation. At the well owner's request, a representative of the Home/Farm *A* Syst program will conduct an on-site investigation of the well and surrounding area to try to identify the possible source of the pesticide and suggest corrective actions the well owner might take.

If USEPA Method 507 indicates a concentration of a pesticide greater than the drinking water MCL, EPD immediately calls the well owner and suggests the water not be used for drinking purposes. The owner is advised to call the local county agricultural extension agent and Dr. Risse. A letter and copy of the test results are subsequently mailed to the owner. EPD rules regulating drinking water quality apply to public water supplies, not to domestic wells, and the homeowner is so informed.

RESULTS

EPD sampled a total of 2007 domestic wells from May 2000 through December 2002, 787 of which were sampled during calendar year 2002 (Appendix H). Immunoassay tests were performed on samples from all wells. Eighty-eight wells (11.2 percent) were scheduled for re-sampling in 2002 because immunoassay screening tests indicated the presence of one or more of the targeted pesticides at concentrations greater than USEPA Method 507 LOQs. Eighty-one of these wells were re-sampled prior to December 31, 2002, with the remaining wells scheduled for re-sampling in early 2003. Of the 81 re-samples collected and analyzed during 2002, two confirmed the presence of one or more of the four targeted pesticides at concentrations above USEPA Method 507 LOQs.

Also in 2002, random QA samples were collected for analysis by the GDA laboratory from 282 wells at the same time initial samples were collected for immunoassay tests. Of the 282 random samples collected, six contained metolachlor at concentrations above the USEPA Method 507 MDL but below the LOQ. These were classified as "trace" concentrations.

The following table lists all samples collected through 2002 that contained target pesticides as confirmed by USEPA Method 507 LOQs.

	Well ID	Immunoassay Original Sample		Immunoassay Re-sample		USEPA Method 507	
		Pesticide	Concentration	Pesticide	Concentration	Pesticide	Concentration
5/2000-12/2001	071-15	Alachlor	4.15	Alachlor	5	Alachlor	3.65*
	087-01	Alachlor	1.7	Alachlor	4.73	Alachlor	3.65*
	099-01	Metolachlor	1.1	Metolachlor	2.35	Metolachlor	2.09
	263-11	Atrazine	0.64	Atrazine	0.1	Atrazine	0.22
	005-04	Alachlor	3.18	Not a Re-sample (1)		Alachlor	1.5
	005-11	Alachlor	2.75	Not a Re-sample (1)		Alachlor	6.2*
	243-26	Alachlor	1.37	Not a Re-sample (1)		Alachlor	1.22
2002	119-08	Metolachlor	0.07	Not a Re-sample (1)		Metolachlor	Trace
	125-02A	Metolachlor	0.05nd**	Not a Re-sample (1)		Metolachlor	Trace
	125-02B	Metolachlor	0.07	Not a Re-sample (1)		Metolachlor	Trace
	125-06	Metolachlor	0.20	Metolachlor	0.6	Metolachlor	Trace
	125-07	Metolachlor	0.16	Not a Re-sample (1)		Metolachlor	Trace
	163-08	Alachlor	0.21	Alachlor	0.65	Alachlor	0.51
	241-06	Metolachlor	0.26	Metolachlor	0.07	Metolachlor	Trace
	303-11	Alachlor	0.14	Alachlor	0.01nd**	Alachlor	0.11

Note: Concentrations are in parts per billion (ppb). (1) indicates that pesticides were detected in the original immunoassay sample and the USEPA Method 507 duplicate sample collected at the same time; no re-sampling was undertaken for these three wells. * indicates a concentration in excess of maximum contaminant levels (MCLs) for public drinking water supplies. ** indicates a possible concentration that is too low to quantify.

In 2002, six of the eight wells that had confirmed pesticide presence had only a trace (< LOQ) of metolachlor. There is no MCL for metolachlor. Alachlor was quantified in two wells at a concentration above USEPA Method 507 MDL but below the MCL.

In summary, two of the 787 wells sampled in 2002 (0.3 percent) contained one of the four targeted pesticides at confirmed concentrations greater than USEPA method 507 LOQ; but none of these were above the MCLs. For the duration of the project, GGS has sampled a total of 2007 wells and had a total of 15 (0.75 percent) confirmed pesticide detections; three of which were above the drinking water MCLs, and six of which were at trace concentrations. The locations of these wells are provided in Figure 2.

All 2007 well owners were notified of the test results. Owners of the wells testing positive for pesticides and confirmed by the GDA laboratory were referred to their county agricultural extension agent and the University of Georgia's Home/Farm *A* Syst program.

DISCUSSION

USES AND TRADE NAMES OF THE FOUR TARGETED PESTICIDES

The following table provides a brief description of each of the four pesticides targeted in this study, the crops they are used on, and a list of commercial herbicides that contain them. Information contained in this table was obtained from EXTTOXNET (The EXtension TOXicology NETwork), a web site that contains safety information for pesticides and fungicides. This information may or may not reflect current label requirements for these pesticides. The URL for this web site is <http://ace.orst.edu/info/exttoxnet>.

Alachlor	<p>Alachlor is an aniline herbicide used to control annual grasses and broadleaf weeds in field corn, soybeans, and peanuts. It is a selective systemic herbicide, absorbed by germinating shoots and by roots.</p> <p>Trade names of commercial herbicides containing alachlor include Alanex, Bronco, Cannon, Crop Star, Lariat, Lasso, and Partner. It mixes well with other herbicides such as Bullet, Freedom, and Rasta, and is found in mixed formulations with atrazine, glyphosate, trifluralin, and imazaquin.</p>
Atrazine	<p>Atrazine is a selective triazine herbicide used to control broadleaf and grassy weeds in corn, sorghum, sugarcane, pineapple, Christmas trees, and other crops, and in conifer reforestation plantings. It is also used as a nonselective herbicide on non-cropped industrial lands and on fallow lands.</p> <p>Trade names include Aatrex, Aktikon, Alazine, Atred, Atranex, Atrataf, Atratol, Azinotox, Crisazina, Farmco Atrazine, G-30027, Gesaprim, Giffex 4L, Malermis, Primatol, Simazat, and Zeapos.</p>
Metolachlor	<p>Metolachlor is usually applied to crops before plants emerge from the soil, and is used to control certain broadleaf and annual grassy weeds in field corn, soybeans, peanuts, grain sorghum, potatoes, pod crops, cotton, safflower, stone fruits, nut trees, highway rights-of-way and woody ornamentals.</p> <p>Trade names for products containing metolachlor include Bicep, CGA-24705, Dual, Pennant, and Pimagram. The compound may be used in formulations with other pesticides (often herbicides that control broad-leaved weeds) including atrazine, cyanazine, and fluometuron.</p>
Simazine	<p>Simazine is a selective triazine herbicide. It is used to control broad-leaved weeds and annual grasses in field, berry fruit, nuts, vegetable and ornamental crops, turfgrass, orchards, and vineyards. At higher rates, it is used for nonselective weed control in industrial areas.</p> <p>Trade names include Aquazine, Caliber, Cekusan, Cekusima, Framed, Gesatop, Primatol S, Princep, Simadex, Simanex, Sim-Trol, Tanzine and Totazine. This compound may also be found in formulations with other herbicides such as amitrole, paraquat dichloride, metolachlor, and atrazine.</p>

Alachlor and atrazine are considered restricted use pesticides requiring licensed applicators. Metolachlor is a general use pesticide that may, in certain formulations, be classified as a restricted use pesticide. Simazine is a general use pesticide.

ACKNOWLEDGEMENTS

The Domestic Well Pesticide Sampling Project is primarily funded through a USEPA 319(h) Non-Point Source Grant managed by the Georgia Department of Natural Resources Environmental Protection Division. Additional funding has been provided through the Georgia Department of Agriculture. State matching funds are provided through the Geologic Survey Branch of the Georgia Department of Natural Resources Environmental Protection Division.

APPENDIX A

Market Bulletin Article

APPENDIX A: Market Bulletin Article

Free Well-Water Testing for Pesticides VOLUNTEERS NEEDED STATEWIDE

The Georgia Geologic Survey has begun a statewide groundwater quality survey in cooperation with the Georgia Department of Agriculture. The Survey is currently sampling private wells in Southwest Georgia. Homeowners residing in all counties except the coastal counties of Effingham, Chatham, Bryan, Liberty, McIntosh, Glynn, Camden, Brantley, Charlton, Ware, Clinch, Echols and Lanier, which draw drinking water from a confined aquifer are eligible to have their drinking-water tested free of charge.

Samples will be collected from shallow domestic drinking water wells and analyzed for the commonly used pesticides alachlor, atrazine, metolachlor, and simazine. There has been little evidence suggesting that the normal application and use of these pesticides are harmful to ground water in Georgia, and the testing is expected to confirm this. In the case of any detection of pesticides, the Geologic Survey will revisit and resample the well to confirm the analysis. The UGA Cooperative Extension Service has agreed to conduct an on-site environmental assessment, if requested by a well owner. The well owner will receive notification of the results of the analysis within thirty days of sample collection. Water samples will be collected during daytime hours, Monday through Friday. The test requires a Geologic Survey representative to have access to an outside spigot, run the water for approximately 15-20 minutes, and collect a water sample. It is not necessary for the well owner to be present for the sampling event.

Only a limited number of wells can be sampled, approximately 40 per county. Interested well owners should mail a written request for water analysis to: Free Well-Water Testing for Pesticides, Georgia Geologic Survey, 19 Martin Luther King, Jr. Drive, Room 400, Atlanta, GA 30334. Please respond as soon as possible and include the following information: your name, address, telephone number, county, well depth, and brief directions to your home. Selected participants will be notified prior to testing. If you have any questions, please call Lora Overacre or Sue Grunwald at 404-656-3214.

APPENDIX B

Desired Coverage and Responses Received through December 31, 2002

APPENDIX B: Desired coverage and Responses Received through December 31, 2002

County	Desired No. of Samples	Number of Requets Recieived	County	Desired No. Of Samples	Number Of Requets Recieived	County	Desired No. of Samples	Number Of Requets Recieived	County	Desired No. of Samples	Number of Requets Recieived	County	Desired No. of Samples	Number of Requets Recieived
Appling	51	27	Columbia	29	14	Habersham	28	16	Miller	28	32	Sumter	49	51
Atkinson	34	13	Cook	23	18	Hall	39	23	Mitchell	51	51	Talbot	39	21
Bacon	29	27	Coweta	44	36	Hancock	47	24	Monroe	40	16	Taliaferro	20	10
Baker	34	24	Crawford	33	18	Haralson	28	9	Montgomery	25	13	Tattnall	48	15
Baldwin	26	26	Crisp	27	30	Harris	46	11	Morgan	35	28	Taylor	38	21
Banks	23	8	Dade	17	2	Hart	23	20	Murray	34	7	Telfair	44	10
Barrow	16	26	Dawson	21	11	Heard	30	15	Muscogee	22	6	Terrell	34	21
Bartow	46	24	Decatur	60	47	Henry	32	47	Newton	28	33	Thomas	55	27
Ben Hill	25	17	DeKalb	27	7	Houston	38	16	Oconee	19	12	Tift	27	24
Bergen	45	29	Dodge	50	31	Irwin	36	36	Oglethorpe	44	8	Toombs	37	12
Bibb	25	10	Dooley	39	36	Jackson	34	36	Paulding	31	18	Towns	17	2
Bleckley	22	10	Dougherty	33	37	Jasper	37	22	Peach	15	25	Treutlen	20	11
Brooks	49	45	Douglas	20	30	Jeff Davis	33	8	Pickens	23	10	Troup	41	41
Bulloch	68	34	Early	51	43	Jefferson	53	36	Pierce	34	25	Turner	29	20
Burke	83	34	Elbert	37	27	Jenkins	35	10	Pike	22	26	Twiggs	36	19
Bulls	19	26	Emanuel	69	19	Johnson	30	16	Polk	31	12	Union	32	10
Calhoun	28	25	Evans	19	11	Jones	39	21	Pulaski	25	24	Upson	33	17
Candler	25	12	Fannin	39	14	Lamar	19	30	Pulnam	34	27	Walker	45	8
Carroll	50	30	Fayette	20	38	Laurens	81	33	Quitman	15	8	Walton	33	40
Catoosa	16	3	Floyd	51	34	Lee	36	43	Rabun	37	12	Warren	29	5
Chattahoochee	25	1	Forsyth	23	20	Lincoln	21	18	Randolph	43	29	Washington	68	25
Chattooga	31	8	Franklin	26	16	Long	40	12	Richmond	32	20	Wayne	65	17
Cherokee	42	24	Fulton	53	49	Lowndes	50	29	Rockdale	13	18	Webster	21	13
Clarke	12	8	Gilmer	43	18	Lumpkin	28	19	Schley	17	19	Wheeler	30	16
Clay	20	13	Glascock	14	23	Macon	40	15	Screven	65	20	White	24	18
Clayton	14	10	Gordon	36	20	Madison	28	35	Seminole	24	25	Whitfield	29	8
Cobb	34	18	Grady	46	30	Manion	37	10	Spalding	20	37	Wilcox	38	17
Coffee	60	25	Greene	39	18	McDuffie	26	18	Stephens	18	4	Wilkes	47	18
Colquitt	55	31	Gwinnett	43	15	Meriwether	50	38	Stewart	46	24	Wilkinson	45	30
												Worth	57	42
													Desired	To Date
												Totals:	5104	3144

Notes: The desired number of samples" is based on one sample per 10 square miles of county area. This does not take into account land that does not have domestic wells such as areas served by municipal or private water supplies, military bases and other federal facilities, open lands, and lack of volunteer homeowners. The actual number of samples obtained may be substantially lower because of these factors.

APPENDIX C

Field Data Sheet

APPENDIX C: Field Data Sheet

FREE WELL WATER TESTING FOR PESTICIDES:
FIELD DATA SHEET

WELL ID _____
COUNTY _____
WELL OWNER _____
DATE _____
MEASUREMENTS BY _____
LATITUDE _____
LONGITUDE _____

Spigot location: _____

TIME	pH (std. units)	SPEC. COND. (mS)	TEMP. (degrees C)

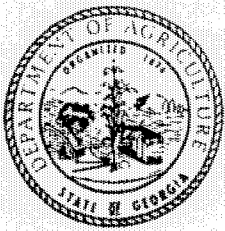
The acidity (pH) of water is measured on a scale of 0 to 14. Values of pH less than 7.0 denote acidity and values greater than 7.0 indicate alkalinity. Corrosiveness of water generally increases with decreasing pH. However, excessively alkaline waters may also attack metals. A pH range between 6.0 and 8.5 generally is considered acceptable.

Specific conductivity is a measure of the ability of water to transmit an electric current, and is an indirect measurement of the total dissolved solids content of the water. Water with a negligible total dissolved solids concentration will have a low specific conductivity. The specific conductivity of potable water normally ranges from 0.05 to 1.5mS.

Typical ambient temperatures of ground water used for drinking water supply in southern Georgia range from 18°C to 22°C.

APPENDIX D

Chain of Custody Form



Georgia Department of Agriculture

Atlanta Laboratory Building
19 Martin Luther King, Jr. Dr. SW
Atlanta, Georgia 30034

Thomas T. Irvin
Commissioner

Ground Water Sample Collection Report: Domestic Well Water Project

Chain of Custody Record

Well Name _____ Well ID _____

Sample Description (check one): Well _____ Stream _____ Spring _____

Sampling Time _____ (24 hr) Sampling Date _____ (mm/dd/yyyy)

Collector Name _____ Agency _____

Field pH _____ (Std. Units)

Screen(s) Requested (check all applicable):

EPA Mtd 507 _____ EPA Mtd 508 _____ EPA Mtd 531.1 _____ EPA Mtd 555 _____ NPS Mtd 4 _____

Collection containers:

EPA Method 507 and 508-1000 ml (approx.) collected as one sample in one 1-liter amber glass bottle containing 80mg of sodium thiosulfate;

EPA Method 531.1-60 ml collected in one 125-ml Teflon bottle containing 5mg of sodium thiosulfate and 1.8ml of monochloroacetic acid buffer;

EPA Method 555-1000 ml (approx.) collected in one 1-liter amber glass bottle containing 45mg of sodium sulfite; NPS Method 4-1000 ml (approx.) collected in one 1-liter amber glass bottle.

Sample additives:

EPA methods 507-508 . . . none

EPA method 531.1 none

EPA method 555 **after** sampling add 1:1 HCl:reagent water to each sample to produce pH 2

NPS method 4 none

Transfer Section:

<u>Deliverer's Initials</u>	<u>Condition of samples</u> (i.e., broken bottle, leaks)	<u>temperature C°</u>	<u>Receiver's Initials</u>
_____	_____	_____	_____

Comments: _____

Comments: _____

Laboratory Section:

Date received: ___/___/___ Time: _____:_____ (24hrs)

Laboratory Number: _____

Comments: _____

Screen(s) Completed (initial all applicable):





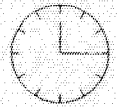





EPA Mtd 507 _____ EPA Mtd 508 _____ EPA Mtd 531.1 _____ EPA Mtd 555 _____ NPS Mtd 4 _____

Date: ___/___/___ Date: ___/___/___ Date: ___/___/___ Date: ___/___/___ Date: ___/___/___

APPENDIX E

Immunoassay Flow Chart

ATRAZINE FLOWCHART

<p>1</p> <p>Remove upper rack from magnetic base.</p> <p>Label test tubes for Standards, Control, and Samples.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Tube #</th> <th style="text-align: left;">Content</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>Diluent/Zero Standard, 0 ppb</td> </tr> <tr> <td>3, 4</td> <td>Standard 1 1 ppb</td> </tr> <tr> <td>5, 6</td> <td>Standard 2 1 ppb</td> </tr> <tr> <td>7, 8</td> <td>Standard 3 5 ppb</td> </tr> <tr> <td>9</td> <td>Control</td> </tr> <tr> <td>10</td> <td>Sample 1</td> </tr> <tr> <td>11</td> <td>Sample 2</td> </tr> </tbody> </table> <p>Add 200 μL of either Standards, Control or Samples to the bottom of each test tube by inserting the pipet tip all the way into the tube without touching the sides or the bottom of the tube.</p> 	Tube #	Content	1, 2	Diluent/Zero Standard, 0 ppb	3, 4	Standard 1 1 ppb	5, 6	Standard 2 1 ppb	7, 8	Standard 3 5 ppb	9	Control	10	Sample 1	11	Sample 2	<p>3</p> <p>Add 500 μL of thoroughly mixed Atrazine Antibody Coupled Magnetic Particles down the inside wall of each tube by using the technique described in Box 2. Vortex for 1 to 2 seconds (at low speed to minimize foaming).</p> 	<p>7</p> <p>Add 1 mL of Washing Solution down the inside wall of each tube by using the technique described in Box 2. Wait 2 minutes. Using a smooth motion, invert the combined rack assembly over a sink and pour out the tube contents; keep inverted and gently blot the test tube rims on several layers of paper toweling. Repeat this step.</p> 
Tube #	Content																	
1, 2	Diluent/Zero Standard, 0 ppb																	
3, 4	Standard 1 1 ppb																	
5, 6	Standard 2 1 ppb																	
7, 8	Standard 3 5 ppb																	
9	Control																	
10	Sample 1																	
11	Sample 2																	
<p>2</p> <p>Add 250 μL of Atrazine Enzyme Conjugate down the inside wall of each tube by aiming the pipet tip $\frac{1}{4}$" to $\frac{1}{2}$" below the tube rim without touching the rim or tube wall with the pipet tip; deliver liquid gently.</p> 	<p>4</p> <p>Incubate 15 minutes at room temperature (15°-30°C).</p> 	<p>8</p> <p>Lift the upper rack (with its tubes) off the magnetic base; add 500 μL of Color Reagent down the inside wall of each tube by using the technique described in Box 2. Vortex for 1 to 2 seconds (at low speed to minimize foaming).</p> 																
<p>5</p> <p>Combine the upper rack with the magnetic base; press all tubes into base; allow 2 minutes for the particles to separate.</p> 	<p>6</p> <p>Do not separate upper rack from lower base. Using a smooth motion, invert the combined rack assembly over a sink and pour out the tube contents; keep inverted and gently blot the test tube rims on several layers of paper toweling.</p> 	<p>9</p> <p>Incubate for 20 minutes at room temperature (15 - 30 C). During this period, add 1 mL of Washing Solution into a clean tube for use as an instrument blank in Step 10.</p> 																
<p>10</p> <p>Add 500 μL of Stopping Solution down the inside wall of each tube by using the technique described in Box 2. (For 100 test kits see the package insert for Stopping Solution preparation.) Safety Caution: This solution is 2M sulfuric acid. Read results at 450 nm within 15 minutes after adding the Stopping Solution.</p> 																		

APPENDIX E: Immunoassay Flowchart

For Ordering or Technical Assistance Contact:
 Ohmicron Environmental Diagnostics, Inc.
 800 544-8881 215 860-5115
 FAX 215 860-5213

Atrazine Rapid Assay Kit Part # A00002 30 Tests
A00071 100 Tests

APPENDIX F

Example GDA Analysis Reports

APPENDIX F: Example GDA Analysis Reports



Thomas T. Irvin
Commissioner

Department of Agriculture
Chemical Laboratories Division - Ground Water Laboratory
Agriculture Building, Room 610
Atlanta, Georgia 30334
Phone: (404) 656-3716
Fax: (404) 463-6670

Report of Analysis

Date Received: 01/26/01

Well Name/Well ID: Fox/321-04

Laboratory Number: GW-01-0396

Date Extracted: 01/31/01

Extraction Method: NPS Method #4

Analytical Sample Size (mL): 964

Final Extract Concentration (g sample/mL): 193

Injection Volume (µL): 50

Analyte	Storet #	MDL (ppb)	Concentration (ppb)	Analyte	Storet #	MDL (ppb)	Concentration (ppb)
Atrazine, dealkylated	75981	0.25	ND	Metribuzin DA	81408	0.21	ND
Barban	38418	0.50	ND	Metribuzin DADK	81408	2.5	ND
Carbofuran, phenol	81450	1.8	ND	Metribuzin DK	81408	0.10	ND
Cyanazine	81757	0.58	ND	Neburon	38521	0.15	ND
Diuron	39650	0.070	ND	Pronamide metabolites	39080	0.81	ND
Penamiphos sulfone		5.7	ND	Propanil		0.067	ND
Penamiphos sulfoxide		1.0	ND	Propham		0.75	ND
Fluometuron	38810	0.10	ND	Swep	38554	0.75	ND
3-ketocarbofuran phenol		0.25	ND				
Linuron	38477	0.25	ND				

ND = None Detected

RMC/MP
Analysts

2-7-01
Date Reported

Tunde Nuga
Laboratory Manager



Thomas T. Irvin
Commissioner

Department of Agriculture
Chemical Laboratories Division - Ground Water Laboratory
Agriculture Building, Room 610
Atlanta, Georgia 30334
Phone: (404) 656-3716
Fax: (404) 463-6670

Report of Analysis

Date Received: 01/26/01

Well Name/Well ID: Fox/321-04

Laboratory Number: GW-01-0395

Date Extracted: 01/30/01

Extraction Method: EPA Method 555

Analytical Sample Size (mL): 150

Final Extract Concentration (g sample/mL): 150

Injection Volume (µL): 100

Analyte	Storet #	MDL (ppb)	Concentration (ppb)	Analyte	Storet #	MDL (ppb)	Concentration (ppb)
2, 4-D	39730	1.3	ND	Dicamba, 5-hydroxy-		2.2	ND
2, 4-DB	38746	1.9	ND	Dichlorprop	38451	1.7	ND
2, 4, 5-TP	39760	1.8	ND	Dinoseb	38779	1.5	ND
2, 4, 5-T		1.3	ND	MCPA		0.8	ND
3, 5 Dichlorobenzoic Acid		2.1	ND	MCPP		1.7	ND
Aclfluorfen		1.7	ND	4-Nitrophenol		1.2	ND
Bentazon	38711	4.6	ND	Pentachlorophenol		1.6	ND
Chloramben		3.1	ND	Picloram	39720	0.5	ND
Dicamba	38442	2.1	ND				

ND = None Detected

RML/MP/L
Analysts

2-7-01
Date Reported

Tunde Nuga
Tunde Nuga
Laboratory Manager



Department of Agriculture
Chemical Laboratories Division - Ground Water Laboratory
Agriculture Building, Room 610
Atlanta, Georgia 30334
Phone: (404) 656-3716
Fax: (404) 463-6670

Thomas T. Irvin
Commissioner

Report of Analysis

Date Received: 01/26/01

Well Name/Well ID: Fox/321-04

Laboratory Number: GW-01-0394

Date Extracted: 01/29/01

Extraction Method: EPA Method 531.1

Analytical Sample Size (mL): 50

Final Extract Concentration (g sample/mL): 1

Injection Volume (µL): 400

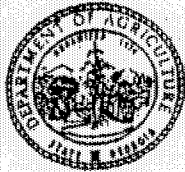
Analyte	Storet #	MDL (ppb)	Concentration (ppb)
Aldicarb	39053	0.22	ND
Aldicarb sulfone	04257	1.0	ND
Aldicarb sulfoxide	04260	0.59	ND
Aprocarb		1.0	ND
Carbaryl	77700	1.3	ND
Carbofuran	81450	0.52	ND
3-Hydroxycarbofuran	82584	1.9	ND
Methiocarb	38500	1.9	ND
Methomyl	39051	0.29	ND
Oxamyl	38866	0.86	ND

ND = None Detected

RML/mav
Analysts

2-7-01
Date Reported

Tunde Nuga
Laboratory Manager



Department of Agriculture
 Chemical Laboratories Division - Ground Water Laboratory
 Agriculture Building, Room 610
 Atlanta, Georgia 30334
 Phone: (404) 656-3716
 Fax: (404) 463-6670

Thomas T. Irvin
 Commissioner

Report of Analysis

Date Received: 01/26/01

Well Name/Well ID: Fox/321-04

Laboratory Number: GW-01-0393

Date Extracted: 01/29/01

Extraction Method: EPA Method 508

Analytical Sample Size (mL): 959

Final Extract Concentration (g sample/mL): 192

Injection Volume (µL): 3

Analyte	Storet #	MDL (ppb)	Concentration (ppb)	Analyte	Storet #	MDL (ppb)	Concentration (ppb)
4,4-DDD		0.0044	ND	Heptachlor	39410	0.0015	ND
4,4-DDE		0.0025	ND	Heptachlor epoxide	39420	0.0059	ND
4,4-DDT		0.039	ND	Hexachlorobenzene	39700	0.0077	ND
Aldrin	39330	0.014	ND	Methoxychlor	39480	0.022	ND
Chlorobenzilate	39460	2.2	ND	Propachlor	38533	0.25	ND
Chlorobeb	38423	0.25	ND	Trifluralin	81284	0.0026	ND
Chlorothalonil		0.011	ND	alpha-HCH		0.0053	ND
DCPA	39770	0.0032	ND	beta-HCH		0.0036	ND
Dieldrin	39380	0.011	ND	delta-HCH		0.0020	ND
Endosulfan I	34361	0.0092	ND	gamma-HCH	39782	0.0060	ND
Endosulfan II	34356	0.024	ND	alpha-chlordane	39348	0.0041	ND
Endosulfan sulfate	82623	0.0024	ND	gamma-chlordane	39810	0.0016	ND
Endrin	39390	0.0062	ND	cis-Permethrin		0.25	ND
Endrin aldehyde	82622	0.011	ND	trans-Permethrin	82420	0.18	ND
Ethidiazole	38793	0.013	ND				

ND = None Detected

RML/mel
 Analysts

2-7-01
 Date Reported

Tunde Nuga
 Laboratory Manager



Department of Agriculture
 Chemical Laboratories Division - Ground Water Laboratory
 Agriculture Building, Room 610
 Atlanta, Georgia 30334
 Phone: (404) 656-3716
 Fax: (404) 463-6670

Thomas T. Irvia
 Commissioner

Report of Analysis

Date Received: 01/26/01

Well Name/Well ID: Fox/321-04

Laboratory Number: QW-01-0392

Date Extracted: 01/29/01

Extraction Method: EPA Method 507

Analytical Sample Size (mL): 959

Final Extract Concentration (g sample/mL): 192

Injection Volume (µL): 3

Analyte	Storet #	MDL (ppb)	Concentration (ppb)	Analyte	Storet #	MDL (ppb)	Concentration (ppb)
Alachlor	77823	0.14	ND	Merphos	38496	0.040	ND
Ametryn	38401	0.20	ND	Methyl paraxon	30009	0.30	ND
Atraton	38414	0.17	ND	Metolachlor	38923	0.19	ND
Atrazine	39033	0.015	ND	Metribuzin	81408	0.029	ND
Bronacil	82198	0.69	ND	Meviphos	39610	0.87	ND
Butachlor	77860	0.12	ND	Molinate	49562	0.061	ND
Butylate	81410	0.033	ND	Napropamide	79195	0.069	ND
Carbozin	70978	0.18	ND	Norflurazon	78064	0.098	ND
Chlorpropham	82322	0.20	ND	Pebulate	79192	0.022	ND
Cycloate	04031	0.022	ND	Prometon	39056	0.041	ND
Diazinon	39750	0.13	ND	Prometryn	04036	0.024	ND
Dichlorvos (DDVP)	38775	0.28	ND	Pronamide	39080	0.28	ND
Diphenamid	30255	0.082	ND	Propazine	38535	0.014	ND
Disulfoton	39010	0.029	ND	Simazine	39055	0.014	ND
Disulfoton sulfone	81031	0.63	ND	Simetryn	39054	0.035	ND
Disulfoton sulfoxide	81888	0.082	ND	Sutrofos	38877	0.18	ND
EPTC	81894	0.080	ND	Tebuthiuron	45607	0.58	ND
Ethoprop	81758	0.021	ND	Terbacil	38883	0.56	ND
Penamiphos	38929	0.12	ND	Terbufos	82088	0.054	ND
Penarimol	04101	0.20	ND	Terbutryn	38886	0.031	ND
Fluridone		2.8	ND	Triadimefon	38893	0.093	ND
Hexazinone	30264	0.15	ND	Tricyclazole	38903	0.21	ND
MKG 264	4098	0.19	ND	Vernolate	82200	0.055	ND

ND = None Detected

LML/MLC
 Analysts

2-7-01
 Date Reported

[Signature]
 Tunde Nuga
 Laboratory Manager

APPENDIX G

Re-sample Data Sheet

APPENDIX G: Resample Data Sheet

DOMESTIC WELL WATER TESTING FOR PESTICIDES

RE-SAMPLE DATA

WELL ID #: _____ DATE: _____
 COUNTY: _____ OBSERVER: _____
 WELL OWNER: _____
 ADDRESS: _____

**RE-SAMPLE
LABORATORY RESULTS**

TIME	DEPTH	pH	TEMP (C)	Alachlor (ppb)	Atrazine (ppb)	Metola- chlor (ppb)	Simazine (ppb)

COMMENTS: _____

WELL HEAD CONDITION AND LAND USE INVENTORY

LOCATION OF SPIGOT

DIST. FROM WELL

CONDITION OF WELL:

	PRESENT	DAMAGED	ABSENT	Comments
Cement Pad				
Well House				

LANDSCAPE SURROUNDING WELL:

			Comments
Grass	Ditch	Cultivated Field	
Dirt	Stream	Garden	
Trees	Pond		

LAND USE WITHIN 50 METERS OF WELL:

		Comments
Pesticide Mix/Stg.	Crop Farming	Vehicle Parking
Waste Disposal	Animal Enclosures	
Machinery	Irrigation	
Debris	Industry	

APPENDIX H

**Summary Information for Domestic Wells Sampled
from January 2002 through December 2002**

Well ID	County	Well Depth (ft)	Latitude	Longitude	Initial Visit Date	Types of Samples (1)	USEPA Method 507 Results
001-11	Appling	30	31 46 29.60	82 22 42.90	10/24/02	IA/QA Samples	Below Detection Limits
001-12	Appling	520	31 55 31.00	82 22 09.50	10/24/02	IA/QA Samples	Below Detection Limits
001-23	Appling	200	31 41 48.30	82 21 59.70	10/24/02	IA/QA Samples	Below Detection Limits
001-25	Appling	30	31 49 40.40	82 20 50.60	10/24/02	IA/QA Samples	Below Detection Limits
009-01	Baldwin		32 58 47.83	83 20 13.19	2/14/02	IA/QA Samples	Below Detection Limits
009-02	Baldwin		33 02 09.71	83 08 22.54	2/14/02	IA/QA Samples	Below Detection Limits
009-04	Baldwin		33 03 00.86	83 19 41.03	2/14/02	IA/QA Samples	Below Detection Limits
009-05	Baldwin		33 08 17.34	83 08 20.54	2/14/02	IA/QA Samples	Below Detection Limits
009-05C	Baldwin		33 08 17.34	83 08 20.54	5/23/02	IA Only	Not Analyzed
009-06	Baldwin		33 08 41.03	83 07 20.23	2/14/02	IA/QA Samples	Below Detection Limits
009-07	Baldwin		32 58 46.81	83 19 43.49	2/14/02	IA/QA Samples	Below Detection Limits
009-08	Baldwin		33 09 41.88	83 11 15.95	2/14/02	IA/QA Samples	Below Detection Limits
009-09	Baldwin	175	33 00 58.75	83 06 22.44	2/14/02	IA/QA Samples	Below Detection Limits
009-11	Baldwin		33 03 08.62	83 21 38.20	6/4/02	IA/QA Samples	Below Detection Limits
009-12A	Baldwin	400	33 05 37.86	83 22 23.19	6/3/02	IA/QA Samples	Below Detection Limits
009-12B	Baldwin	350	33 05 37.86	83 22 23.19	6/3/02	IA Only	Not Analyzed
009-12C	Baldwin	38	33 05 37.86	83 22 23.19	6/3/02	IA Only	Not Analyzed
009-12D	Baldwin	38	33 05 37.86	83 22 23.19	6/3/02	IA Only	Not Analyzed
009-13	Baldwin		33 08 08.06	83 17 19.95	6/4/02	IA/QA Samples	Below Detection Limits
009-14	Baldwin	400	33 08 16.72	83 15 51.01	6/4/02	IA/QA Samples	Below Detection Limits
009-15	Baldwin	120	33 08 09.81	83 22 05.61	6/3/02	IA/QA Samples	Below Detection Limits
009-16	Baldwin	275	33 08 19.32	83 10 08.04	6/4/02	IA/QA Samples	Below Detection Limits
009-19	Baldwin	375	33 03 10.15	83 11 16.05	6/4/02	IA/QA Samples	Below Detection Limits
009-20	Baldwin		33 02 50.80	83 23 17.99	6/4/02	IA/QA Samples	Below Detection Limits
009-21	Baldwin	80	33 02 05.86	83 22 07.73	6/4/02	IA/QA Samples	Below Detection Limits
011-01	Banks		34 14 47.43	83 20 56.82	3/21/02	IA Only	Not Analyzed
011-02	Banks	275	34 24 34.00	83 29 43.93	3/19/02	IA Only	Not Analyzed
011-04	Banks		34 14 43.50	83 25 50.10	3/20/02	IA Only	Not Analyzed
011-05	Banks	305	34 24 02.73	83 37 25.29	3/19/02	IA Only	Not Analyzed
011-06	Banks		34 16 21.40	83 25 59.98	8/14/02	IA Only	Not Analyzed
011-07	Banks	30	34 17 42.42	83 28 18.57	8/14/02	IA/Resample	Below Detection Limits
011-08	Banks	60	34 19 43.12	83 31 02.30	8/14/02	IA Only	Not Analyzed
013-06	Barrow		33 56 29.98	83 46 54.96	3/7/02	IA/QA Samples	Below Detection Limits
013-07	Barrow		34 03 30.18	83 44 18.24	3/7/02	IA Only	Not Analyzed
013-10	Barrow		33 59 43.44	83 39 24.90	3/7/02	IA/QA Samples	Below Detection Limits
013-13	Barrow		33 55 20.64	83 38 32.46	3/7/02	IA/QA Samples	Below Detection Limits
013-14	Barrow		33 56 23.76	83 40 39.72	3/7/02	IA/QA Samples	Below Detection Limits
013-15	Barrow	200	34 00 01.44	83 46 37.38	3/7/02	IA/QA Samples	Below Detection Limits
015-01	Bartow		34 12 42.84	84 52 38.04	5/3/02	IA/QA Samples	Below Detection Limits
015-02	Bartow		34 11 46.10	84 46 53.90	5/3/02	IA/Resample	Below Detection Limits
015-03	Bartow		34 14 31.90	84 59 29.30	5/6/02	IA/Resample	Below Detection Limits
015-04	Bartow		34 20 04.02	84 42 14.40	5/6/02	IA/QA Samples	Below Detection Limits
015-05	Bartow		34 10 26.16	84 58 50.82	5/6/02	IA/QA Samples	Below Detection Limits
015-08	Bartow		34 20 53.82	84 39 24.54	5/6/02	IA/QA Samples	Below Detection Limits
015-10	Bartow		34 23 47.60	84 53 46.40	5/6/02	IA/Resample	Below Detection Limits

015-11	Bartow		34 17 05.50	85 00 33.00	5/6/02	IA/Resample	Below Detection Limits
015-12	Bartow		34 19 43.90	84 49 39.30	5/6/02	IA/Resample	Below Detection Limits
015-14	Bartow	500	34 20 03.42	84 40 53.64	5/6/02	IA/Resample	Below Detection Limits
015-18	Bartow		34 20 57.72	84 50 37.44	4/25/02	IA/QA Samples	Below Detection Limits
015-19	Bartow		34 20 52.98	84 50 38.04	4/25/02	IA/QA Samples	Below Detection Limits
015-20	Bartow		34 20 49.50	84 50 32.64	4/25/02	IA/QA Samples	Below Detection Limits
019-08	Berrien		31 18 03.10	83 16 20.00	12/10/02	IA Only	Not Analyzed
033-01	Burke		33 05 25.61	82 13 56.72	2/25/02	IA/QA Samples	Below Detection Limits
033-02	Burke		33 09 37.41	82 13 04.75	2/25/02	IA/QA Samples	Below Detection Limits
033-04	Burke		33 00 00.65	82 02 27.57	2/26/02	IA/Resample	Below Detection Limits
033-05	Burke		33 11 53.97	82 01 08.49	2/25/02	IA/QA Samples	Below Detection Limits
033-06	Burke	180	33 13 40.52	82 13 47.86	2/25/02	IA/QA Samples	Below Detection Limits
033-08	Burke		33 12 54.40	81 56 36.65	2/26/02	IA/Resample	Below Detection Limits
033-09	Burke		33 08 25.52	81 50 31.25	2/26/02	IA/Resample	Below Detection Limits
033-10	Burke	90	32 57 45.14	81 45 58.96	2/26/02	IA/Resample	Below Detection Limits
033-11	Burke	90	33 10 20.31	82 05 00.12	2/25/02	IA/QA Samples	Below Detection Limits
033-12	Burke	220	33 08 49.64	82 03 22.67	2/25/02	IA/QA Samples	Below Detection Limits
033-13	Burke	180	33 05 30.47	82 13 40.48	2/25/02	IA/QA Samples	Below Detection Limits
033-14	Burke		33 15 26.65	82 08 30.61	2/25/02	IA/QA Samples	Below Detection Limits
033-15	Burke		33 07 56.37	82 00 53.40	2/25/02	IA/Resample	Below Detection Limits
033-16	Burke	180	33 03 39.84	81 44 15.24	2/26/02	IA/Resample	Below Detection Limits
033-17	Burke		33 13 44.45	82 10 29.62	2/25/02	IA/QA Samples	Below Detection Limits
033-18	Burke	200	33 12 28.84	81 50 21.56	2/26/02	IA/Resample	Below Detection Limits
033-19	Burke	>200	33 00 04.12	81 40 18.36	4/18/02	IA/Resample	Below Detection Limits
033-20	Burke	>200	33 01 54.00	81 36 00.00	4/18/02	IA Only	Not Analyzed
033-21	Burke	12	33 02 21.36	81 33 28.48	4/18/02	IA Only	Not Analyzed
033-23	Burke		32 56 58.08	82 00 54.00	4/17/02	IA/QA Samples	Below Detection Limits
033-24	Burke	150	33 08 01.12	82 01 42.47	4/17/02	IA/QA Samples	Below Detection Limits
033-25	Burke	160	32 57 56.46	82 07 41.46	4/17/02	IA/QA Samples	Below Detection Limits
033-27	Burke	110	33 13 07.44	82 04 12.22	4/17/02	IA/QA Samples	Below Detection Limits
033-28	Burke	200	33 14 22.12	81 53 42.36	4/18/02	IA Only	Not Analyzed
033-29	Burke		32 56 43.08	82 11 07.19	4/17/02	IA/QA Samples	Below Detection Limits
033-30	Burke	>200	33 00 10.48	81 45 39.36	4/18/02	IA Only	Not Analyzed
033-31	Burke		32 52 15.14	82 14 38.06	4/17/02	IA Only	Not Analyzed
033-32A	Burke		33 12 38.13	81 56 26.10	4/18/02	IA/Resample	Below Detection Limits
033-32B	Burke		33 12 38.13	81 56 26.10	4/18/02	IA/Resample	Below Detection Limits
033-33	Burke		33 11 47.06	81 55 42.29	4/18/02	IA Only	Not Analyzed
035-01	Butts		33 13 05.22	83 56 32.14	7/29/02	IA Only	Not Analyzed
035-02	Butts		33 20 23.43	83 57 03.75	7/26/02	IA Only	Not Analyzed
035-04	Butts		33 18 41.70	84 04 15.84	7/29/02	IA Only	Not Analyzed
035-05	Butts		33 14 31.72	84 04 08.05	7/29/02	IA Only	Not Analyzed
035-06	Butts		33 14 49.77	83 53 07.09	7/26/02	IA Only	Not Analyzed
035-07	Butts		33 13 45.64	84 06 06.50	7/29/02	IA Only	Not Analyzed
035-08	Butts		33 14 35.12	84 00 27.13	7/29/02	IA Only	Not Analyzed
035-09	Butts	45	33 23 59.35	83 57 36.01	7/26/02	IA Only	Not Analyzed
035-11	Butts		33 13 12.54	83 54 09.01	7/29/02	IA Only	Not Analyzed
035-12	Butts	365	33 15 21.75	83 56 40.57	7/29/02	IA Only	Not Analyzed

035-13	Butts	600	33 13 27.01	83 52 00.79	7/26/02	IA Only	Not Analyzed
035-14	Butts	242	33 20 07.62	83 52 58.37	7/26/02	IA Only	Not Analyzed
035-15	Butts	300	33 13 13.19	83 51 58.56	7/29/02	IA Only	Not Analyzed
035-16	Butts	150	33 17 22.52	83 52 35.93	7/26/02	IA Only	Not Analyzed
035-17	Butts	150	33 14 56.89	84 06 49.51	7/29/02	IA Only	Not Analyzed
035-19	Butts	265	33 20 50.26	83 53 56.28	7/26/02	IA Only	Not Analyzed
035-21	Butts		33 17 33.28	83 52 05.62	7/26/02	IA/Resample	Below Detection Limits
035-22	Butts	270	33 19 17.12	83 54 06.21	7/26/02	IA Only	Not Analyzed
035-23	Butts	386	33 19 16.69	83 54 06.45	7/26/02	IA Only	Not Analyzed
035-26	Butts	270	33 24 49.01	83 55 20.83	8/30/02	IA/QA Samples	Below Detection Limits
037-19	Calhoun		31 35 29.00	84 27 58.50	7/17/02	IA Only	Not Analyzed
037-20	Calhoun		31 31 51.33	84 32 00.98	7/17/02	IA Only	Not Analyzed
037-21	Calhoun	300	31 37 08.23	84 46 39.51	7/18/02	IA Only	Not Analyzed
037-22	Calhoun	100	31 30 17.97	84 45 11.21	7/18/02	IA/QA Samples	Below Detection Limits
037-23	Calhoun		31 31 41.66	84 47 22.89	7/18/02	IA Only	Not Analyzed
037-24	Calhoun		31 27 21.25	84 44 19.64	7/18/02	IA Only	Not Analyzed
047-01	Catoosa		34 54 47.64	85 00 43.98	3/20/02	IA/QA Samples	Below Detection Limits
047-02	Catoosa		34 50 17.28	85 11 32.16	3/20/02	IA/QA Samples	Below Detection Limits
047-03	Catoosa		34 52 35.10	85 08 20.70	3/19/02	IA/QA Samples	Below Detection Limits
055-01	Chattooga		34 30 15.06	85 14 33.24	2/6/02	IA Only	Not Analyzed
055-02	Chattooga	110	34 31 52.32	85 22 50.70	2/6/02	IA Only	Not Analyzed
055-03	Chattooga	132	34 32 41.38	85 25 41.09	2/6/02	IA Only	Not Analyzed
055-05	Chattooga	270	34 38 49.98	85 13 55.26	2/6/02	IA Only	Not Analyzed
055-08	Chattooga	130	34 33 51.00	85 16 34.80	2/6/02	IA Only	Not Analyzed
057-01	Cherokee		34 20 26.86	84 37 25.45	2/21/02	IA/QA Samples	Below Detection Limits
057-04	Cherokee	40	34 08 30.50	84 24 01.90	4/22/02	IA/Resample	Below Detection Limits
057-06	Cherokee		34 08 02.80	84 26 33.70	4/22/02	IA/Resample	Below Detection Limits
057-09	Cherokee		34 10 05.30	84 26 07.60	4/22/02	IA/Resample	Below Detection Limits
057-11	Cherokee		34 23 54.35	84 38 19.59	2/21/02	IA/QA Samples	Below Detection Limits
057-13	Cherokee	100	34 15 56.40	84 21 44.56	2/21/02	IA/QA Samples	Below Detection Limits
057-14	Cherokee		34 21 17.89	84 26 23.62	2/21/02	IA/QA Samples	Below Detection Limits
057-15	Cherokee		34 21 59.36	84 19 28.99	2/21/02	IA/QA Samples	Below Detection Limits
057-18	Cherokee		34 11 36.72	84 19 32.28	4/22/02	IA/QA Samples	Below Detection Limits
057-19	Cherokee		34 15 25.64	84 25 34.87	2/21/02	IA/QA Samples	Below Detection Limits
057-20	Cherokee		34 15 16.57	84 25 29.38	2/21/02	IA/QA Samples	Below Detection Limits
059-01A	Clarke		34 00 01.44	83 25 34.56	6/13/02	IA Only	Not Analyzed
059-01B	Clarke		34 00 01.44	83 25 34.56	6/13/02	IA Only	Not Analyzed
059-02	Clarke		34 00 24.12	83 22 24.12	6/13/02	IA Only	Not Analyzed
059-03	Clarke		33 52 47.94	83 18 42.60	6/13/02	IA Only	Not Analyzed
059-04	Clarke		33 52 40.86	83 15 35.64	6/13/02	IA Only	Not Analyzed
059-07	Clarke		33 51 29.70	83 19 12.30	6/12/02	IA Only	Not Analyzed
071-31	Colquitt	450	31 19 53.00	83 51 52.20	12/10/02	IA/Resample	Below Detection Limits
073-01	Columbia		33 23 40.80	82 18 55.02	4/4/02	IA Only	Not Analyzed
073-03	Columbia		33 34 14.76	82 14 46.08	4/4/02	IA Only	Not Analyzed
073-04	Columbia		33 28 00.48	82 13 56.58	4/4/02	IA Only	Not Analyzed
073-05	Columbia	275	33 35 05.40	82 06 38.52	4/4/02	IA Only	Not Analyzed
073-08	Columbia		33 26 45.12	82 16 58.80	4/4/02	IA Only	Not Analyzed

073-10	Columbia	75	33 26 44 88	82 16 59 10	4/4/02	IA Only	Not Analyzed
073-11	Columbia	500	33 27 46.32	82 13 12 12	4/4/02	IA Only	Not Analyzed
073-13	Columbia	100	33 25 50.76	82 19 23 88	4/4/02	IA/QA Samples	Below Detection Limits
073-14	Columbia	250	33 29 18.30	82 22 41 28	4/4/02	IA Only	Not Analyzed
077-01	Coweta		33 26 46.40	84 44 06 90	11/20/02	IA Only	Not Analyzed
077-03A	Coweta	400	33 24 59.90	84 51 53 80	12/6/02	IA Only	Not Analyzed
077-04	Coweta		33 16 21.80	84 44 49 10	11/20/02	IA Only	Not Analyzed
077-05	Coweta	42	33 24 50.50	84 39 58 20	11/20/02	IA Only	Not Analyzed
077-08	Coweta		33 16 38.50	84 32 04 60	12/6/02	IA Only	Not Analyzed
077-09	Coweta		33 18 36.60	84 49 47 00	11/21/02	IA Only	Not Analyzed
077-10A	Coweta	280	33 16 30.30	84 37 14 80	12/6/02	IA Only	Not Analyzed
077-11	Coweta		33 27 05.90	84 46 22 80	12/6/02	IA Only	Not Analyzed
077-12	Coweta		33 27 44.90	84 37 40 20	11/20/02	IA Only	Not Analyzed
077-13	Coweta		33 27 22.70	84 38 18 00	11/20/02	IA Only	Not Analyzed
077-14	Coweta		33 13 55.90	84 51 30 40	12/6/02	IA Only	Not Analyzed
077-15	Coweta	45	33 25 00.50	84 56 10 10	11/21/02	IA Only	Not Analyzed
077-16	Coweta		33 20 54.30	84 40 15 70	11/20/02	IA Only	Not Analyzed
077-17	Coweta	265	33 19 16.60	84 55 23 60	11/21/02	IA Only	Not Analyzed
077-20	Coweta		33 19 27.70	84 52 11 70	11/21/02	IA Only	Not Analyzed
083-01	Dade	spring	34 54 03.06	85 27 13 62	3/12/02	IA/QA Samples	Below Detection Limits
083-02	Dade	93	34 54 52.98	85 24 54 36	3/12/02	IA/QA Samples	Below Detection Limits
085-01	Dawson		34 28 31.62	84 11 33 18	8/6/02	IA Only	Not Analyzed
085-02	Dawson		34 24 25.86	84 01 29 82	8/5/02	IA Only	Not Analyzed
085-03	Dawson		34 23 09.66	84 07 34 26	8/5/02	IA Only	Not Analyzed
085-05	Dawson		34 33 16.92	84 11 43 26	8/6/02	IA Only	Not Analyzed
085-07	Dawson	342	34 22 37.56	84 04 21 12	8/5/02	IA Only	Not Analyzed
085-08	Dawson	272	34 20 50.94	84 09 57 30	8/5/02	IA Only	Not Analyzed
085-09	Dawson	350	34 31 23.52	84 18 45 36	8/5/02	IA Only	Not Analyzed
085-10	Dawson	90	34 31 11.76	84 15 22 50	8/6/02	IA Only	Not Analyzed
085-11	Dawson	25	34 26 15.30	84 15 02 40	8/6/02	IA/Resample	Below Detection Limits
097-14	Douglas	113	33 34 29.00	84 49 24 80	12/19/02	IA Only	Not Analyzed
097-16	Douglas	301	33 41 36.00	84 38 08 30	12/19/02	IA/Resample	Below Detection Limits
105-01	Elbert		34 11 52.65	82 57 03 95	7/10/02	IA Only	Not Analyzed
105-02	Elbert	100	34 03 42.69	82 50 32 71	7/11/02	IA Only	Not Analyzed
105-03	Elbert		34 10 10.02	82 51 44 30	9/9/02	IA Only	Not Analyzed
105-04	Elbert		34 05 31.70	82 48 55 00	9/9/02	IA Only	Not Analyzed
105-05	Elbert		34 12 47.68	82 51 23 49	7/10/02	IA/Resample	Not Analyzed
105-09	Elbert	100	34 12 49.63	82 53 08 01	7/10/02	IA Only	Not Analyzed
105-10	Elbert		34 10 49.71	83 00 08 64	7/10/02	IA Only	Not Analyzed
105-11	Elbert		34 05 13.30	82 46 07 00	9/9/02	IA Only	Not Analyzed
105-12	Elbert	150	34 04 29.19	82 57 07 57	7/11/02	IA Only	Not Analyzed
105-13	Elbert	60	34 15 23.50	82 48 06 10	9/10/02	IA/QA Samples	Below Detection Limits
105-15	Elbert	350	33 59 44.90	82 36 14 10	9/9/02	IA Only	Not Analyzed
105-16	Elbert	550	34 04 25.90	82 56 39 70	9/9/02	IA Only	Not Analyzed
105-19	Elbert	300	34 08 55.80	83 01 50 00	9/9/02	IA Only	Not Analyzed
105-20	Elbert	500	34 06 07.90	83 00 42 50	9/9/02	IA Only	Not Analyzed
105-22	Elbert		34 12 59.50	83 04 47 70	9/9/02	IA Only	Not Analyzed

105-23	Elbert	400	34 16 34.60	82 47 33.00	9/10/02	IA/QA Samples	Below Detection Limits
105-25	Elbert		34 66 49.40	82 59 36.60	9/9/02	IA Only	Not Analyzed
109-01	Evans		32 05 38.90	81 55 34.00	10/23/02	IA/QA Samples	Below Detection Limits
109-09	Evans		32 11 39.70	81 57 32.00	10/23/02	IA/QA Samples	Below Detection Limits
115-01	Floyd		34 15 27.22	85 26 02.16	1/25/02	IA Only	Not Analyzed
115-02	Floyd		34 15 42.60	85 18 30.36	1/25/02	IA Only	Not Analyzed
115-03	Floyd		34 19 13.99	85 10 12.51	1/25/02	IA Only	Not Analyzed
115-04	Floyd		34 21 29.06	85 04 12.87	1/25/02	IA Only	Not Analyzed
115-05	Floyd		34 20 46.83	85 03 03.22	1/25/02	IA Only	Not Analyzed
115-06	Floyd		34 16 23.82	85 16 38.68	1/25/02	IA Only	Not Analyzed
115-07	Floyd		34 26 29.13	85 06 25.32	1/25/02	IA Only	Not Analyzed
115-08	Floyd		34 22 28.64	85 02 43.73	1/25/02	IA Only	Not Analyzed
115-09	Floyd		34 15 04.80	85 03 34.96	1/25/02	IA Only	Not Analyzed
115-10	Floyd		34 10 23.45	85 24 55.76	1/25/02	IA Only	Not Analyzed
115-11	Floyd	250	34 27 18.42	85 08 53.32	1/25/02	IA Only	Not Analyzed
115-12	Floyd	300	34 08 25.43	85 14 14.28	1/25/02	IA Only	Not Analyzed
115-13	Floyd	290	34 22 48.54	85 02 50.64	3/28/02	IA/QA Samples	Below Detection Limits
115-14	Floyd	170	34 12 30.48	85 16 19.20	3/28/02	IA/QA Samples	Below Detection Limits
115-15	Floyd		34 13 10.62	85 13 27.84	3/28/02	IA/QA Samples	Below Detection Limits
115-16	Floyd		34 13 07.02	85 13 27.60	3/28/02	IA/QA Samples	Below Detection Limits
115-17	Floyd	80	34 20 21.72	85 20 52.26	3/28/02	IA/QA Samples	Below Detection Limits
115-18	Floyd		34 19 13.56	85 10 15.60	3/28/02	IA/QA Samples	Below Detection Limits
115-19	Floyd		34 13 06.90	85 13 26.76	3/28/02	IA/QA Samples	Below Detection Limits
115-20	Floyd	80	34 14 15.09	85 12 30.04	4/9/02	IA/QA Samples	Below Detection Limits
115-21	Floyd	75	34 23 37.05	85 04 28.32	4/9/02	IA/QA Samples	Below Detection Limits
115-22	Floyd	125	34 23 12.81	85 15 00.95	4/9/02	IA/QA Samples	Below Detection Limits
115-23	Floyd	125	34 23 22.08	85 15 07.27	4/9/02	IA/QA Samples	Below Detection Limits
115-24	Floyd	147	34 21 11.25	85 10 12.45	4/9/02	IA/QA Samples	Below Detection Limits
115-25	Floyd	60	34 19 34.82	85 04 38.59	4/9/02	IA/QA Samples	Below Detection Limits
115-28A	Floyd	165	34 14 46.50	85 24 55.89	4/19/02	IA/QA Samples	Below Detection Limits
115-28B	Floyd	165	34 14 46.50	85 24 55.89	4/19/02	IA/Resample	Below Detection Limits
115-30	Floyd		34 12 41.49	85 14 36.22	4/19/02	IA/Resample	Below Detection Limits
115-31	Floyd	300	34 14 50.52	85 24 43.92	4/25/02	IA/QA Samples	Below Detection Limits
119-05A	Franklin		34 18 01.98	83 10 52.98	5/23/02	IA/QA Samples	Below Detection Limits
119-05B	Franklin		34 18 01.98	83 10 52.98	5/23/02	IA Only	Not Analyzed
119-05C	Franklin		34 18 01.98	83 10 52.98	5/23/02	IA Only	Not Analyzed
119-06A	Franklin		34 21 58.38	83 06 13.26	5/23/02	IA/QA Samples	Below Detection Limits
119-06B	Franklin		34 21 58.38	83 06 13.26	5/23/02	IA Only	Not Analyzed
119-06C	Franklin		34 21 58.38	83 06 13.26	5/23/02	IA Only	Not Analyzed
119-07A	Franklin		34 22 09.24	83 08 34.26	5/23/02	IA/QA Samples	Below Detection Limits
119-08	Franklin	100	34 23 21.36	83 18 59.70	5/23/02	IA/QA Samples	Metolachlor trace
119-10	Franklin	366	34 27 31.50	83 22 54.93	8/14/02	IA Only	Not Analyzed
121-07	Fulton		33 31 41.60	84 46 10.40	12/19/02	IA Only	Not Analyzed
121-36	Fulton	370	33 32 53.10	84 46 55.70	12/19/02	IA Only	Not Analyzed
121-43	Fulton	280	33 35 58.00	84 44 00.20	12/19/02	IA Only	Not Analyzed
125-01	Glascock		33 15 44.82	82 36 36.38	5/28/02	IA Only	Not Analyzed
125-02A	Glascock		33 12 35.29	82 40 45.44	5/24/02	IA/QA Samples	Metolachlor trace

125-02B	Glascock		33 12 35.29	82 40 45.44	5/24/02	IA/QA Samples	Metolachlor trace
125-03	Glascock		33 13 42.03	82 37 08.98	5/28/02	IA Only	Not Analyzed
125-04	Glascock	130	33 09 54.10	82 37 16.09	5/24/02	IA/Resample	Below Detection Limits
125-05	Glascock	138	33 15 43.82	82 29 06.10	5/28/02	IA Only	Not Analyzed
125-06	Glascock	125	33 13 59.91	82 43 16.78	5/24/02	IA/Resample	Metolachlor trace
125-07	Glascock	50	33 11 33.58	82 45 18.62	5/24/02	IA/QA Samples	Metolachlor trace
125-09	Glascock	300	33 10 25.97	82 41 05.11	5/24/02	IA Only	Not Analyzed
125-10	Glascock	185	33 16 33.80	82 30 03.51	5/28/02	IA/Resample	Below Detection Limits
125-12	Glascock	50	33 17 12.22	82 39 38.42	5/28/02	IA Only	Not Analyzed
125-14	Glascock	136	33 15 17.56	82 32 08.11	5/28/02	IA Only	Not Analyzed
125-15	Glascock	258	33 14 05.48	82 37 30.65	5/28/02	IA Only	Not Analyzed
125-16	Glascock	35	33 14 55.67	82 41 20.37	9/12/02	IA Only	Not Analyzed
125-17	Glascock		33 17 48.10	82 37 49.84	5/28/02	IA/Resample	Below Detection Limits
125-18	Glascock		33 11 45.05	82 39 17.69	5/24/02	IA Only	Not Analyzed
125-19	Glascock	160	33 07 39.66	82 36 42.80	5/24/02	IA/Resample	Below Detection Limits
125-20	Glascock		33 09 43.10	82 37 32.17	5/24/02	IA/Resample	Below Detection Limits
125-21	Glascock	100	33 14 50.13	82 41 06.20	9/12/02	IA Only	Not Analyzed
129-01	Gordon		34 35 27.80	85 02 54.30	12/9/02	IA Only	Not Analyzed
129-02	Gordon		34 33 59.30	85 01 34.70	12/9/02	IA Only	Not Analyzed
129-05	Gordon		34 36 09.50	84 46 25.20	12/9/02	IA Only	Not Analyzed
129-06	Gordon		34 36 05.70	85 02 14.20	12/9/02	IA Only	Not Analyzed
129-08	Gordon		34 31 04.14	84 48 43.20	12/9/02	IA Only	Not Analyzed
129-11	Gordon		34 33 39.90	84 51 46.30	12/9/02	IA Only	Not Analyzed
129-13	Gordon		34 30 54.78	84 48 28.38	12/9/02	IA Only	Not Analyzed
129-14	Gordon		34 25 39.72	84 42 02.58	12/9/02	IA Only	Not Analyzed
129-15	Gordon		34 27 06.54	84 40 22.74	12/9/02	IA Only	Not Analyzed
129-18	Gordon	460	34 26 24.40	84 57 43.10	12/9/02	IA Only	Not Analyzed
133-03	Greene		33 37 28.20	83 20 44.30	9/19/02	IA Only	Not Analyzed
133-05	Greene		33 30 53.60	83 03 14.50	9/19/02	IA Only	Not Analyzed
133-06	Greene		33 30 15.10	83 08 48.10	9/19/02	IA Only	Not Analyzed
133-07	Greene	50	33 33 40.70	83 13 55.10	9/19/02	IA Only	Not Analyzed
133-08	Greene	126	33 40 12.80	83 01 27.80	9/19/02	IA Only	Not Analyzed
133-09	Greene		33 43 04.10	83 12 03.20	9/19/02	IA Only	Not Analyzed
133-10	Greene	200	33 30 02.20	83 00 45.50	9/19/02	IA Only	Not Analyzed
133-11	Greene	100	33 27 50.10	83 10 24.40	9/19/02	IA Only	Not Analyzed
133-12	Greene	40	33 33 53.40	83 05 11.40	9/19/02	IA Only	Not Analyzed
133-13	Greene		33 41 49.70	83 22 28.60	9/19/02	IA Only	Not Analyzed
133-15	Greene	40	33 30 22.00	83 12 23.70	9/19/02	IA Only	Not Analyzed
133-16	Greene	400	33 32 46.50	83 00 32.50	9/19/02	IA Only	Not Analyzed
133-17	Greene		33 39 53.50	83 09 16.60	9/19/02	IA Only	Not Analyzed
133-18	Greene	125	33 35 57.70	83 12 20.30	9/19/02	IA Only	Not Analyzed
137-01	Habersham		34 35 57.02	83 35 07.44	8/13/02	IA Only	Not Analyzed
137-02	Habersham		34 46 05.31	83 36 54.51	8/14/02	IA Only	Not Analyzed
137-04	Habersham		34 41 43.11	83 31 24.83	8/13/02	IA Only	Not Analyzed
137-07	Habersham	40	34 39 31.84	83 37 12.58	8/13/02	IA Only	Below Detection Limits
137-08A	Habersham	275	34 38 58.33	83 33 41.20	8/13/02	IA Only	Not Analyzed
137-08B	Habersham		34 38 58.33	83 33 41.20	8/13/02	IA Only	Not Analyzed

137-10	Habersham	505	34 40 16.05	83 22 55.69	8/13/02	IA Only	Not Analyzed
137-14	Habersham	43	34 31 40.03	83 33 19.37	8/13/02	IA Only	Not Analyzed
137-15	Habersham	265	34 39 14.61	83 26 48.45	8/13/02	IA Only	Not Analyzed
139-01	Hall		34 10 04.29	83 57 26.18	3/19/02	IA/QA Samples	Below Detection Limits
139-02	Hall		34 09 52.11	83 52 58.20	3/19/02	IA/QA Samples	Below Detection Limits
139-03	Hall		34 17 17.86	83 44 22.81	3/19/02	IA Only	Not Analyzed
139-06	Hall		34 13 56.30	83 43 03.11	3/19/02	IA/QA Samples	Below Detection Limits
139-07	Hall		34 07 07.74	83 53 43.74	3/19/02	IA/QA Samples	Below Detection Limits
139-08	Hall		34 08 02.73	83 56 09.32	3/19/02	IA/QA Samples	Below Detection Limits
139-11	Hall		34 24 11.46	83 46 16.51	3/20/02	IA/Resample	Below Detection Limits
139-12	Hall		34 26 35.44	83 52 25.54	3/20/02	IA/Resample	Not Analyzed
139-13	Hall	155	34 11 02.81	83 48 14.29	3/19/02	IA/QA Samples	Below Detection Limits
139-16	Hall	220	34 25 29.10	83 56 54.48	8/5/02	IA Only	Not Analyzed
139-17	Hall		34 26 53.76	83 46 00.18	8/5/02	IA Only	Not Analyzed
139-18	Hall	52	34 25 30.84	83 45 47.40	8/5/02	IA Only	Not Analyzed
139-19	Hall	360	34 29 11.58	83 48 06.36	8/5/02	IA Only	Not Analyzed
139-20	Hall	200	34 25 37.02	83 50 58.32	8/5/02	IA Only	Not Analyzed
139-21	Hall		34 29 45.48	83 47 41.28	8/5/02	IA Only	Not Analyzed
139-22	Hall	40	34 22 54.30	83 56 12.06	9/17/02	IA Only	Not Analyzed
141-01	Hancock	46	33 11 19.12	83 07 48.36	4/1/02	IA Only	Not Analyzed
141-02	Hancock	265	33 22 49.12	83 00 55.12	4/2/02	IA Only	Not Analyzed
141-03	Hancock		33 13 49.48	83 07 51.36	4/1/02	IA Only	Not Analyzed
141-04	Hancock	200	33 17 39.00	82 52 28.48	4/1/02	IA/QA Samples	Below Detection Limits
141-05	Hancock	50	33 18 00.00	82 55 37.12	4/1/02	IA/QA Samples	Below Detection Limits
141-06	Hancock	200	33 07 04.12	82 59 54.36	4/1/02	IA/QA Samples	Below Detection Limits
141-07	Hancock		33 25 03.36	82 55 43.48	4/2/02	IA Only	Not Analyzed
141-08	Hancock		33 25 06.36	82 55 42.36	4/2/02	IA Only	Not Analyzed
141-09	Hancock	160	33 10 48.36	82 54 47.24	4/1/02	IA/QA Samples	Below Detection Limits
141-11	Hancock		33 23 49.48	82 58 56.24	4/2/02	IA Only	Not Analyzed
141-12A	Hancock	320	33 17 12.36	83 03 57.36	4/1/02	IA/QA Samples	Below Detection Limits
141-12B	Hancock	385	33 17 12.36	83 03 57.36	4/1/02	IA Only	Not Analyzed
141-14	Hancock	40	33 08 52.48	83 00 13.48	4/1/02	IA/QA Samples	Below Detection Limits
141-15	Hancock	300	33 13 03.36	83 12 04.12	4/1/02	IA Only	Not Analyzed
141-16	Hancock	160	33 06 52.23	82 59 08.38	4/1/02	IA/QA Samples	Below Detection Limits
141-17	Hancock		33 23 01.34	83 00 47.31	4/1/02	IA Only	Not Analyzed
141-18	Hancock		33 13 04.23	83 05 17.13	4/1/02	IA Only	Not Analyzed
141-21	Hancock		33 10 35.17	82 58 56.17	4/1/02	IA/QA Samples	Below Detection Limits
141-22	Hancock	100	33 05 57.32	83 05 36.25	4/1/02	IA Only	Not Analyzed
141-23	Hancock	120	33 26 03.36	82 58 16.48	4/2/02	IA Only	Not Analyzed
143-01	Haralson		33 53 34.01	85 18 45.90	2/1/02	IA/QA Samples	Below Detection Limits
143-03	Haralson	20	33 41 33.97	85 18 12.88	2/1/02	IA/QA Samples	Below Detection Limits
143-04	Haralson	350	33 46 52.92	85 11 59.94	4/4/02	IA/QA Samples	Below Detection Limits
147-01	Hart		34 17 07.86	83 06 06.24	5/23/02	IA/QA Samples	Below Detection Limits
147-03	Hart	<100	34 28 19.68	83 01 54.12	5/23/02	IA/QA Samples	Below Detection Limits
147-04	Hart	26	34 17 40.60	82 52 05.30	5/23/02	IA/QA Samples	Below Detection Limits
147-06	Hart		34 28 23.50	82 53 33.40	11/20/02	IA Only	Not Analyzed
147-07	Hart		34 27 12.48	82 52 43.38	5/23/02	IA/QA Samples	Below Detection Limits

147-08	Hart		34 16 24.00	83 05 53.50	11/20/02	IA Only	Not Analyzed
147-09	Hart		34 25 06.60	82 53 02.22	5/23/02	IA/QA Samples	Below Detection Limits
147-10	Hart	26	34 27 53.94	83 03 30.30	5/23/02	IA/QA Samples	Below Detection Limits
147-11	Hart	490	34 28 04.38	82 59 27.84	5/23/02	IA/QA Samples	Below Detection Limits
147-14A	Hart		34 20 45.18	82 51 16.98	5/23/02	IA/QA Samples	Below Detection Limits
147-16	Hart	50	34 16 54.40	82 58 40.10	9/10/02	IA/QA Samples	Below Detection Limits
147-17	Hart	50	34 14 36.42	82 58 01.80	9/10/02	IA/QA Samples	Below Detection Limits
147-18	Hart	spring	34 18 56.90	83 00 38.30	9/10/02	IA/QA Samples	Below Detection Limits
147-19	Hart	50	34 19 21.80	83 04 11.90	9/10/02	IA Only	Not Analyzed
147-20	Hart	405	34 28 07.01	83 02 11.80	9/10/02	IA Only	Not Analyzed
149-01	Heard		33 20 32.70	84 59 51.30	12/10/02	IA Only	Not Analyzed
149-02	Heard	357	33 14 27.00	85 05 19.80	12/16/02	IA Only	Not Analyzed
149-03	Heard		33 14 34.10	84 57 05.70	12/16/02	IA Only	Not Analyzed
151-04	Henry		33 22 31.94	84 16 46.08	6/11/02	IA/QA Samples	Below Detection Limits
151-06	Henry	400	33 28 21.16	84 04 31.96	6/11/02	IA/QA Samples	Below Detection Limits
151-07	Henry		33 25 49.98	84 03 40.65	6/11/02	IA/QA Samples	Below Detection Limits
151-08	Henry		33 28 37.88	84 01 52.76	6/11/02	IA/QA Samples	Below Detection Limits
151-09	Henry		33 22 34.13	84 15 59.96	6/11/02	IA/QA Samples	Below Detection Limits
151-10	Henry		33 29 07.56	84 12 25.65	6/17/02	IA Only	Not Analyzed
151-11	Henry		33 26 37.98	83 56 43.80	6/11/02	IA/QA Samples	Below Detection Limits
151-12	Henry		33 25 53.34	84 11 49.65	6/11/02	IA/QA Samples	Below Detection Limits
151-15	Henry		33 36 50.33	84 11 07.29	6/17/02	IA Only	Not Analyzed
151-16	Henry	200	33 27 09.03	84 02 30.27	6/11/02	IA/QA Samples	Below Detection Limits
151-17	Henry	375	33 35 27.50	84 14 12.06	6/17/02	IA Only	Not Analyzed
151-18	Henry	35	33 28 09.23	84 16 45.36	6/17/02	IA Only	Not Analyzed
151-20	Henry		33 31 41.37	84 06 31.60	6/17/02	IA Only	Not Analyzed
151-21	Henry		33 24 37.85	83 58 56.85	6/11/02	IA/QA Samples	Below Detection Limits
151-26	Henry		33 29 58.08	84 06 41.37	6/18/02	IA Only	Not Analyzed
151-28	Henry		33 23 47.59	84 21 04.78	6/11/02	IA/QA Samples	Below Detection Limits
151-29	Henry		33 22 55.51	84 05 37.48	6/11/02	IA/QA Samples	Below Detection Limits
151-31	Henry		33 24 35.98	84 03 05.83	6/11/02	IA/Resample	Below Detection Limits
151-33	Henry		33 37 56.80	84 14 39.47	6/17/02	IA Only	Not Analyzed
151-34	Henry		33 22 40.83	84 06 01.55	6/11/02	IA/QA Samples	Below Detection Limits
151-36A	Henry	52	33 21 30.93	84 14 17.63	6/11/02	IA/QA Samples	Below Detection Limits
151-36B	Henry	70	33 21 30.93	84 14 17.63	6/11/02	IA Only	Not Analyzed
151-38	Henry	600	33 33 42.65	84 10 56.74	6/17/02	IA Only	Not Analyzed
151-41	Henry		33 25 17.30	84 14 38.45	6/17/02	IA Only	Not Analyzed
151-43	Henry		33 23 53.24	84 21 02.40	8/30/02	IA/QA Samples	Below Detection Limits
151-45	Henry	380	33 26 57.35	84 17 23.42	8/30/02	IA/QA Samples	Below Detection Limits
151-47	Henry	60	33 26 22.83	83 57 20.31	8/30/02	IA/QA Samples	Below Detection Limits
155-22	Irwin		31 36 39.00	83 14 49.26	12/9/02	IA Only	Not Analyzed
157-01	Jackson		34 02 32.94	83 35 36.48	2/19/02	IA/QA Samples	Below Detection Limits
157-02	Jackson		34 06 03.72	83 22 44.58	2/19/02	IA/QA Samples	Below Detection Limits
157-02B	Jackson		34 06 03.72	83 22 44.58	2/19/02	IA/Resample	Below Detection Limits
157-03	Jackson		34 03 45.30	83 41 30.60	3/4/02	IA Only	Not Analyzed
157-04	Jackson	58	34 00 31.20	83 29 31.00	2/19/02	IA/Resample	Below Detection Limits
157-05	Jackson		34 05 21.84	83 33 33.06	2/19/02	IA/QA Samples	Below Detection Limits

157-06	Jackson		34 01 06.42	83 29 56.94	2/19/02	IA/QA Samples	Below Detection Limits
157-10	Jackson		34 11 30.20	83 33 32.40	2/19/02	IA/Resample	Below Detection Limits
157-13	Jackson		34 04 20.80	83 23 32.10	2/19/02	IA/Resample	Below Detection Limits
157-15	Jackson		34 10 17.50	83 27 28.60	2/19/02	IA/Resample	Below Detection Limits
157-17	Jackson		34 11 40.30	83 32 56.80	2/19/02	IA/Resample	Below Detection Limits
157-18	Jackson		34 07 00.18	83 31 50.94	2/19/02	IA/QA Samples	Below Detection Limits
157-19	Jackson	345	34 03 36.70	83 41 58.70	3/19/02	IA/Resample	Below Detection Limits
157-20	Jackson	64	34 02 29.00	83 22 05.10	10/2/02	IA Only	Not Analyzed
157-21	Jackson		34 05 00.78	83 26 27.90	2/19/02	IA/QA Samples	Below Detection Limits
157-24	Jackson	57	34 09 08.20	83 32 35.60	2/19/02	IA/Resample	Below Detection Limits
157-29	Jackson	500	34 12 19.80	83 43 12.70	9/17/02	IA Only	Not Analyzed
157-33	Jackson		34 07 18.40	83 44 15.90	9/17/02	IA/QA Samples	Below Detection Limits
157-34	Jackson	415	34 10 29.04	83 36 18.66	9/10/02	IA Only	Not Analyzed
157-36	Jackson	175	34 12 38.90	83 41 25.40	9/17/02	IA Only	Not Analyzed
159-04	Jasper		33 24 18.80	83 49 36.10	10/31/02	IA Only	Not Analyzed
159-06A	Jasper		33 20 49.30	83 45 00.10	10/31/02	IA Only	Not Analyzed
159-06B	Jasper		33 20 52.70	83 45 04.90	10/31/02	IA Only	Not Analyzed
161-06	Jeff Davis	20	31 42 35.20	82 49 03.70	10/24/02	IA/QA Samples	Below Detection Limits
161-07	Jeff Davis	40	31 45 44.60	82 45 58.70	10/24/02	IA/QA Samples	Below Detection Limits
161-08	Jeff Davis	400	31 46 33.30	82 48 16.20	10/24/02	IA/QA Samples	Below Detection Limits
163-01	Jefferson	300	33 00 52.23	82 20 45.58	3/4/02	IA/QA Samples	Below Detection Limits
163-02	Jefferson		32 58 43.26	82 27 23.16	3/4/02	IA/QA Samples	Below Detection Limits
163-03	Jefferson		33 01 08.35	82 27 16.26	3/4/02	IA/QA Samples	Below Detection Limits
163-03B	Jefferson	175	32 49 37.26	82 29 42.14	3/4/02	IA Only	Not Analyzed
163-04	Jefferson		32 54 42.47	82 29 15.58	3/4/02	IA/QA Samples	Below Detection Limits
163-05	Jefferson		33 04 52.34	82 26 53.13	5/13/02	IA Only	Not Analyzed
163-06	Jefferson	60	33 12 03.25	82 24 03.11	3/5/02	IA/Resample	Below Detection Limits
163-07	Jefferson	180	33 03 37.52	82 18 08.53	3/4/02	IA/Resample	Below Detection Limits
163-08	Jefferson	100	33 11 58.44	82 17 09.43	3/5/02	IA/Resample	Alachlor 0.51 ppb
163-09	Jefferson		33 12 07.23	82 15 33.40	3/5/02	IA/Resample	Below Detection Limits
163-10	Jefferson	98	32 58 24.43	82 20 56.06	3/4/02	IA/QA Samples	Below Detection Limits
163-11	Jefferson	80	33 02 00.51	82 28 32.31	3/4/02	IA/QA Samples	Below Detection Limits
163-12A	Jefferson	0	33 08 49.20	82 25 01.37	3/5/02	IA Only	Not Analyzed
163-13	Jefferson		33 00 47.45	82 18 26.46	3/4/02	IA/QA Samples	Below Detection Limits
163-14	Jefferson		33 09 32.30	82 18 25.04	5/13/02	IA Only	Not Analyzed
163-15	Jefferson	90	33 14 36.03	82 23 52.57	5/13/02	IA Only	Not Analyzed
163-16	Jefferson	125	32 49 26.43	82 30 14.28	5/13/02	IA Only	Not Analyzed
163-17	Jefferson	150	33 04 58.80	82 34 41.00	5/10/02	IA Only	Not Analyzed
163-18	Jefferson	200	33 10 01.16	82 33 09.35	5/10/02	IA/QA Samples	Below Detection Limits
163-19	Jefferson	300	32 52 36.52	82 21 04.06	5/13/02	IA Only	Not Analyzed
163-20	Jefferson		32 54 50.29	82 23 56.78	5/13/02	IA Only	Not Analyzed
163-21	Jefferson	150	33 11 57.04	82 27 54.85	5/10/02	IA/QA Samples	Below Detection Limits
163-23	Jefferson	125	33 02 04.03	82 25 16.45	5/10/02	IA/QA Samples	Below Detection Limits
163-24	Jefferson	240	33 08 44.28	82 21 33.42	5/13/02	IA Only	Not Analyzed
163-25	Jefferson	110	33 05 51.41	82 29 58.99	5/10/02	IA Only	Not Analyzed
163-27	Jefferson	200	32 54 50.07	82 18 35.60	5/13/02	IA Only	Not Analyzed
163-28A	Jefferson	300	32 52 24.19	82 20 02.07	5/13/02	IA Only	Not Analyzed

163-28B	Jefferson	90	32 52 24.19	82 20 02.07	5/13/02	IA Only	Not Analyzed
163-29	Jefferson	162	33 10 47.04	82 31 42.98	5/10/02	IA/QA Samples	Below Detection Limits
163-32	Jefferson	150	33 00 01.32	82 25 21.88	5/10/02	IA/QA Samples	Below Detection Limits
167-01	Johnson		32 44 19.90	82 49 45.25	5/20/02	IA/QA Samples	Below Detection Limits
167-02	Johnson		32 32 34.19	82 35 31.35	5/21/02	IA/QA Samples	Below Detection Limits
167-03	Johnson	200	32 44 35.89	82 38 22.95	5/20/02	IA/QA Samples	Below Detection Limits
167-04	Johnson		32 31 47.91	82 39 00.90	5/21/02	IA/QA Samples	Below Detection Limits
167-05	Johnson	118	32 43 18.80	82 48 11.52	5/20/02	IA/QA Samples	Below Detection Limits
167-06	Johnson		32 45 13.95	82 37 07.09	5/20/02	IA/QA Samples	Below Detection Limits
167-07	Johnson	500	32 48 02.40	82 35 40.84	5/20/02	IA/QA Samples	Below Detection Limits
167-08	Johnson		32 34 51.01	82 38 47.95	5/21/02	IA/QA Samples	Below Detection Limits
167-09	Johnson	>100	32 35 41.74	82 37 36.07	5/21/02	IA/QA Samples	Below Detection Limits
167-10	Johnson	220	32 44 40.14	82 28 34.44	5/21/02	IA/QA Samples	Below Detection Limits
167-12	Johnson	138	32 43 09.53	82 45 09.51	5/20/02	IA/QA Samples	Below Detection Limits
167-13	Johnson	80	32 39 35.46	82 39 03.08	5/21/02	IA/QA Samples	Below Detection Limits
167-15	Johnson	140	32 44 28.94	82 43 32.50	5/20/02	IA/QA Samples	Below Detection Limits
171-02	Lamar		33 01 23.50	84 10 50.10	10/31/02	IA/QA Samples	Below Detection Limits
171-19	Lamar		32 56 43.40	84 04 15.10	10/31/02	IA Only	Not Analyzed
171-22	Lamar	325	33 11 12.90	84 02 40.80	10/31/02	IA/QA Samples	Below Detection Limits
171-23	Lamar	355	33 05 22.20	84 05 37.30	10/31/02	IA/QA Samples	Below Detection Limits
171-24	Lamar	450	33 11 02.60	84 14 21.90	10/31/02	IA/QA Samples	Below Detection Limits
171-25	Lamar		32 59 18.50	84 03 40.90	10/31/02	IA/QA Samples	Below Detection Limits
171-30	Lamar		33 08 38.30	84 10 51.80	10/31/02	IA/QA Samples	Below Detection Limits
181-01	Lincoln		33 44 26.14	82 30 21.94	7/9/02	IA Only	Not Analyzed
181-03	Lincoln	150	33 41 10.59	82 29 00.04	7/9/02	IA Only	Not Analyzed
187-01	Lumpkin		34 30 30.30	83 54 36.54	8/13/02	IA Only	Not Analyzed
187-02	Lumpkin		34 30 38.04	84 01 09.96	8/13/02	IA Only	Not Analyzed
187-03	Lumpkin		34 32 44.34	84 05 04.08	8/13/02	IA Only	Not Analyzed
187-04	Lumpkin		34 28 21.00	84 05 45.30	8/13/02	IA Only	Not Analyzed
187-05	Lumpkin		34 27 27.54	83 55 36.78	8/5/02	IA Only	Not Analyzed
187-07	Lumpkin	250	34 34 26.64	83 52 09.18	8/5/02	IA Only	Not Analyzed
187-08	Lumpkin	60	34 31 55.44	83 53 54.36	8/5/02	IA Only	Not Analyzed
187-09	Lumpkin	30	34 36 35.46	83 52 14.82	8/30/02	IA Only	Not Analyzed
187-11	Lumpkin		34 35 43.92	84 04 32.28	8/6/02	IA Only	Not Analyzed
187-13	Lumpkin	350	34 37 47.82	83 59 23.04	8/6/02	IA Only	Not Analyzed
187-14	Lumpkin		34 38 50.10	84 00 26.46	8/6/02	IA Only	Not Analyzed
187-16	Lumpkin		34 37 29.58	83 59 00.78	8/6/02	IA Only	Not Analyzed
187-17	Lumpkin		34 31 52.80	84 04 13.20	8/14/02	IA Only	Not Analyzed
189-01	McDuffie		33 24 05.34	82 20 55.38	4/4/02	IA Only	Not Analyzed
189-02	McDuffie		33 22 13.56	82 22 02.88	4/4/02	IA Only	Not Analyzed
189-03	McDuffie		33 31 33.84	82 27 21.18	4/4/02	IA/QA Samples	Below Detection Limits
189-05	McDuffie		33 22 52.14	82 28 19.32	4/4/02	IA/QA Samples	Below Detection Limits
189-06	McDuffie		33 31 17.46	82 25 12.60	4/4/02	IA/QA Samples	Below Detection Limits
189-07	McDuffie		33 24 57.72	82 28 59.40	3/19/02	IA/Resample	Below Detection Limits
189-09	McDuffie		33 32 04.56	82 30 03.48	4/4/02	IA/QA Samples	Below Detection Limits
189-10	McDuffie		33 25 17.16	82 21 12.66	4/4/02	IA Only	Not Analyzed
189-12	McDuffie		33 31 46.38	82 32 15.24	4/4/02	IA/QA Samples	Below Detection Limits

195-02	Madison		34 02 20.17	83 19 28.02	8/28/02	IA Only	Not Analyzed
195-03	Madison		34 05 30.57	83 05 24.70	8/29/02	IA Only	Not Analyzed
195-04	Madison		34 12 23.35	83 10 38.94	8/28/02	IA Only	Not Analyzed
195-05	Madison		34 10 44.19	83 11 44.07	8/28/02	IA Only	Not Analyzed
195-07	Madison		34 12 02.21	83 21 05.89	8/28/02	IA Only	Not Analyzed
195-08	Madison		34 06 57.29	83 18 31.29	8/28/02	IA Only	Not Analyzed
195-09B	Madison	85	34 03 51.33	83 16 01.58	8/29/02	IA Only	Not Analyzed
195-10A	Madison		34 13 46.07	83 06 10.44	8/29/02	IA Only	Not Analyzed
195-10B	Madison		34 13 46.07	83 06 10.44	8/29/02	IA Only	Not Analyzed
195-12	Madison		34 04 36.84	83 08 09.73	8/29/02	IA Only	Not Analyzed
195-13	Madison		34 11 49.38	83 24 05.89	8/28/02	IA/Resample	Below Detection Limits
195-14A	Madison	50	34 08 33.70	83 17 30.74	8/28/02	IA Only	Not Analyzed
195-14B	Madison	500	34 08 33.70	83 17 30.74	8/28/02	IA Only	Not Analyzed
195-15	Madison	45	34 01 13.06	83 17 07.52	8/29/02	IA Only	Not Analyzed
195-17A	Madison	440	34 04 21.63	83 12 00.12	8/29/02	IA Only	Not Analyzed
195-17B	Madison	300	34 04 21.63	83 12 00.12	8/29/02	IA Only	Not Analyzed
195-18	Madison		34 05 50.31	83 21 29.17	8/28/02	IA Only	Not Analyzed
195-19	Madison		34 10 43.16	83 21 41.40	8/28/02	IA Only	Not Analyzed
195-20	Madison	60	34 07 01.11	83 11 51.14	8/29/02	IA Only	Not Analyzed
195-21	Madison	50	34 14 29.53	83 16 32.06	8/28/02	IA Only	Not Analyzed
195-23A	Madison		34 10 24.70	83 15 35.19	8/28/02	IA/Resample	Below Detection Limits
195-23B	Madison		34 05 38.31	83 11 30.88	8/29/02	IA Only	Not Analyzed
195-24	Madison		34 08 18.80	83 09 45.90	11/14/02	IA Only	Not Analyzed
195-25	Madison	57	34 13 46.33	83 13 38.76	8/28/02	IA Only	Not Analyzed
195-26	Madison	58	34 03 16.91	83 22 23.57	8/28/02	IA Only	Not Analyzed
195-27	Madison		34 09 45.33	83 07 17.53	8/29/02	IA/Resample	Below Detection Limits
195-28	Madison	285	34 06 06.20	83 06 50.69	8/29/02	IA/Resample	Below Detection Limits
195-29	Madison		34 10 42.36	3 20 31.32	2/19/02	IA/Resample	Below Detection Limits
211-01	Morgan		33 45 25.40	83 31 28.00	10/3/02	IA Only	Not Analyzed
211-02	Morgan		33 36 38.30	83 37 25.90	10/4/02	IA Only	Not Analyzed
211-03	Morgan		33 34 16.20	83 23 30.40	10/3/02	IA Only	Not Analyzed
211-05	Morgan		33 39 08.80	83 30 58.10	10/4/02	IA Only	Not Analyzed
211-06	Morgan		33 33 31.90	83 18 51.00	10/3/02	IA Only	Not Analyzed
211-08	Morgan		33 35 13.90	83 28 30.60	10/3/02	IA Only	Not Analyzed
211-09	Morgan		33 33 14.10	83 37 57.20	10/1/02	IA/QA Samples	Below Detection Limits
211-10	Morgan		33 30 01.80	83 17 29.50	10/3/02	IA Only	Not Analyzed
211-11	Morgan	48	33 36 43.30	83 36 11.90	10/4/02	IA Only	Not Analyzed
211-12	Morgan	40	33 35 15.80	83 30 35.40	10/3/02	IA Only	Not Analyzed
211-13	Morgan	480	33 30 15.10	83 35 58.30	10/1/02	IA/QA Samples	Below Detection Limits
211-14	Morgan	30	33 40 43.00	83 31 29.10	10/4/02	IA Only	Not Analyzed
211-15	Morgan		33 34 56.50	83 40 57.80	10/4/02	IA Only	Not Analyzed
211-16	Morgan		33 32 24.30	83 21 37.30	10/1/02	IA Only	Not Analyzed
211-17	Morgan	245	33 34 51.50	83 34 27.70	10/4/02	IA Only	Not Analyzed
211-18	Morgan		33 47 45.80	83 30 31.90	10/3/02	IA Only	Not Analyzed
211-19	Morgan	350	33 32 04.90	83 27 08.60	10/1/02	IA/QA Samples	Below Detection Limits
211-20	Morgan	260	33 32 10.80	83 32 53.50	10/1/02	IA/QA Samples	Below Detection Limits
211-21	Morgan	360	33 28 36.70	83 23 32.60	10/1/02	IA/QA Samples	Below Detection Limits

211-23	Morgan	200	33 31 00.70	83 31 50.30	10/1/02	IA/QA Samples	Below Detection Limits
211-24	Morgan	500	33 30 08.28	83 20 24.54	11/8/02	IA Only	Not Analyzed
211-25	Morgan		33 41 42.50	83 35 44.30	10/4/02	IA Only	Not Analyzed
211-26	Morgan	350	33 46 47.90	83 30 11.40	10/3/02	IA Only	Not Analyzed
211-27	Morgan	300	33 30 33.00	83 28 24.70	10/4/02	IA Only	Not Analyzed
217-01	Newton		33 34 18.12	83 43 21.36	5/9/02	IA Only	Not Analyzed
217-02	Newton		33 42 09.84	83 51 01.98	5/9/02	IA/QA Samples	Below Detection Limits
217-03	Newton		33 38 19.74	83 55 12.00	5/9/02	IA/QA Samples	Below Detection Limits
217-05	Newton		33 32 58.86	83 59 42.54	5/9/02	IA Only	Not Analyzed
217-06	Newton		33 33 10.26	83 45 33.54	5/9/02	IA/QA Samples	Below Detection Limits
217-07	Newton		33 35 57.90	83 46 51.84	5/9/02	IA/QA Samples	Below Detection Limits
217-09A	Newton		33 30 15.00	83 44 13.02	5/9/02	IA Only	Not Analyzed
217-09B	Newton		33 30 15.00	83 44 13.02	5/9/02	IA Only	Not Analyzed
217-10	Newton		33 41 11.10	83 53 39.24	5/9/02	IA/QA Samples	Below Detection Limits
217-11	Newton		33 30 06.42	83 42 55.56	5/9/02	IA Only	Not Analyzed
217-12	Newton		33 35 10.38	83 45 44.40	5/9/02	IA/QA Samples	Below Detection Limits
217-13	Newton		33 37 48.90	83 45 28.38	5/9/02	IA/QA Samples	Below Detection Limits
217-15	Newton		33 32 54.48	83 47 27.48	5/9/02	IA/QA Samples	Below Detection Limits
217-16	Newton		33 28 27.84	83 54 23.16	5/5/02	IA Only	Not Analyzed
217-18	Newton		33 27 27.78	83 48 04.80	5/9/02	IA Only	Not Analyzed
217-19	Newton		33 33 29.88	83 47 08.94	5/9/02	IA/QA Samples	Below Detection Limits
217-21	Newton	208	33 43 19.57	83 54 14.65	8/23/02	IA Only	Not Analyzed
217-22	Newton	250	33 38 24.71	83 50 26.71	8/23/02	IA/Resample	Below Detection Limits
217-23	Newton	300	33 29 57.14	83 58 34.90	9/20/02	IA/Resample	Below Detection Limits
217-25	Newton	100	33 27 49.00	83 50 44.37	8/23/02	IA/Resample	Below Detection Limits
217-26	Newton	140	33 34 04.25	83 57 22.35	8/23/02	IA/Resample	Below Detection Limits
217-27	Newton	600	33 39 21.32	83 47 08.90	8/23/02	IA/Resample	Below Detection Limits
217-28	Newton	30	33 31 10.30	83 46 17.10	9/20/02	IA Only	Not Analyzed
217-29	Newton		33 43 26.33	83 54 27.02	8/23/02	IA/Resample	Below Detection Limits
219-03	Oconee		33 49 51.42	83 26 43.92	6/13/02	IA Only	Not Analyzed
219-05	Oconee		33 46 10.50	83 17 42.96	6/12/02	IA Only	Not Analyzed
219-06	Oconee		33 50 13.20	83 27 32.16	6/12/02	IA Only	Not Analyzed
219-07	Oconee		33 48 34.44	83 24 20.94	6/12/02	IA Only	Not Analyzed
219-09	Oconee	30	33 50 15.42	83 25 45.78	6/12/02	IA Only	Not Analyzed
219-10	Oconee		33 50 14.94	83 30 56.52	6/12/02	IA Only	Not Analyzed
219-11A	Oconee	50	33 52 59.04	83 33 01.98	6/12/02	IA Only	Not Analyzed
219-11B	Oconee	350	33 52 59.04	83 33 01.98	6/12/02	IA Only	Not Analyzed
221-01	Oglethorpe		33 51 58.14	83 13 26.46	6/12/02	IA Only	Not Analyzed
221-03	Oglethorpe		33 54 31.92	83 13 03.84	6/12/02	IA Only	Not Analyzed
221-04	Oglethorpe	130	33 56 40.32	83 15 37.26	6/12/02	IA Only	Not Analyzed
223-01	Paulding		34 21 11.25	85 10 12.45	4/5/02	IA/QA Samples	Below Detection Limits
223-02	Paulding		33 55 08.10	84 46 59.40	4/5/02	IA/QA Samples	Below Detection Limits
223-03	Paulding		33 48 43.56	84 51 56.58	4/5/02	IA/QA Samples	Below Detection Limits
223-04	Paulding		33 57 39.42	84 48 59.40	4/5/02	IA/QA Samples	Below Detection Limits
223-05	Paulding		33 55 13.68	85 01 53.94	4/5/02	IA/Resample	Below Detection Limits
223-06	Paulding		33 57 52.86	84 48 52.68	4/5/02	IA/QA Samples	Below Detection Limits
223-07	Paulding		33 49 33.24	85 01 09.12	4/26/02	IA/QA Samples	Below Detection Limits

223-08	Paulding		33 51 42.54	84 46 38.22	4/26/02	IA/QA Samples	Below Detection Limits
223-09	Paulding		33 52 52.26	84 48 55.62	4/26/02	IA/QA Samples	Below Detection Limits
223-11	Paulding		33 50 20.82	84 51 04.50	4/26/02	IA/Resample	Below Detection Limits
223-12	Paulding		34 04 25.32	84 45 43.20	4/26/02	IA/Resample	Below Detection Limits
231-01	Pike		33 01 37.80	84 28 33.30	10/11/02	IA Only	Not Analyzed
231-02	Pike	48	33 10 37.50	84 16 49.60	10/11/02	IA/QA Samples	Below Detection Limits
231-05	Pike		33 01 14.50	84 25 00.70	10/11/02	IA/QA Samples	Below Detection Limits
231-06	Pike	30	33 10 25.80	84 22 45.40	10/11/02	IA Only	Not Analyzed
231-07	Pike		33 03 24.00	84 22 51.70	10/11/02	IA Only	Not Analyzed
231-08	Pike	50	33 07 52.40	84 27 38.70	10/11/02	IA Only	Not Analyzed
231-09	Pike	25	33 02 39.50	84 25 51.10	10/11/02	IA/QA Samples	Below Detection Limits
231-11	Pike		33 09 49.00	84 27 33.90	11/15/02	IA Only	Not Analyzed
231-13	Pike	225	33 11 55.30	84 23 09.60	10/11/02	IA Only	Not Analyzed
231-14	Pike	45	33 02 04.90	84 20 32.60	10/11/02	IA Only	Not Analyzed
233-01	Polk		34 02 19.35	85 04 46.72	1/29/02	IA Only	Not Analyzed
233-02	Polk		34 04 35.72	85 15 53.50	1/29/02	IA Only	Not Analyzed
233-03	Polk		33 55 40.87	85 03 45.96	1/29/02	IA Only	Not Analyzed
233-04	Polk		34 00 55.10	85 18 42.78	1/29/02	IA Only	Not Analyzed
233-05	Polk		33 55 40.19	85 12 20.68	1/29/02	IA Only	Not Analyzed
237-01	Putnam		33 27 27.10	83 24 39.70	12/18/02	IA Only	Not Analyzed
237-02	Putnam		33 13 43.48	83 16 43.48	3/21/02	IA Only	Not Analyzed
237-03	Putnam		33 19 13.48	83 25 04.48	3/21/02	IA Only	Not Analyzed
237-04A	Putnam		33 15 49.12	83 15 46.12	3/25/02	IA Only	Not Analyzed
237-08	Putnam	35	33 15 05.24	83 24 22.48	3/21/02	IA Only	Not Analyzed
237-10	Putnam		33 16 56.00	83 15 01.40	12/18/02	IA Only	Not Analyzed
237-11	Putnam	180	33 21 03.36	83 15 00.36	3/25/02	IA Only	Not Analyzed
237-12	Putnam	180	33 27 22.12	83 21 00.36	3/25/02	IA Only	Not Analyzed
237-13	Putnam	205	33 15 03.00	83 25 47.24	3/21/02	IA Only	Not Analyzed
237-14	Putnam	100	33 24 24.00	83 25 58.12	3/25/02	IA Only	Not Analyzed
237-15	Putnam		33 17 13.70	83 22 12.30	12/18/02	IA Only	Not Analyzed
237-16	Putnam		33 15 54.00	83 31 15.00	3/21/02	IA Only	Not Analyzed
237-17	Putnam	243	33 16 02.24	83 27 57.00	3/21/02	IA Only	Not Analyzed
237-18A	Putnam	300	33 23 52.12	83 16 43.48	3/25/02	IA Only	Not Analyzed
237-18B	Putnam		33 23 52.12	83 16 43.48	3/25/02	IA Only	Not Analyzed
237-19A	Putnam	500	33 16 16.12	83 20 14.24	3/21/02	IA Only	Not Analyzed
237-19B	Putnam	620	33 16 16.12	83 20 14.24	3/21/02	IA Only	Not Analyzed
237-20	Putnam	180	33 22 35.24	83 19 05.24	3/25/02	IA Only	Not Analyzed
237-21	Putnam	500	33 17 24.12	83 18 10.41	3/25/02	IA Only	Not Analyzed
237-22	Putnam	250	33 13 43.12	83 21 20.24	3/21/02	IA Only	Not Analyzed
237-23	Putnam	170	33 22 22.42	83 28 01.48	3/25/02	IA Only	Not Analyzed
237-24	Putnam		33 23 43.12	83 15 18.00	3/25/02	IA Only	Not Analyzed
241-01	Rabun		34 50 57.66	83 32 25.86	8/27/02	IA/QA Samples	Below Detection Limits
241-02	Rabun	45	34 51 16.02	83 28 01.26	8/27/02	IA/QA Samples	Below Detection Limits
241-03	Rabun		34 47 25.00	83 25 34.70	8/28/02	IA/Resample	Below Detection Limits
241-04	Rabun		34 50 17.70	83 28 31.40	8/27/02	IA/Resample	Below Detection Limits
241-05	Rabun		34 58 22.98	83 23 07.26	8/28/02	IA/QA Samples	Below Detection Limits
241-06	Rabun		34 48 52.90	83 25 31.10	8/28/02	IA/Resample	Metolachlor trace

241-07A	Rabun	150	34 53 33 96	83 16 28 38	8/28/02	IA Only	Not Analyzed
241-09	Rabun	325	34 55 01.80	83 14 31 70	8/28/02	IA/Resample	Below Detection Limits
241-10	Rabun		34 48 51.60	83 32 06 96	8/27/02	IA/Resample	Below Detection Limits
241-12	Rabun	208	34 50 21.00	83 19 27 66	8/28/02	IA Only	Not Analyzed
241-13	Rabun	400	34 50 33.24	83 30 10 74	8/27/02	IA/QA Samples	Below Detection Limits
241-14	Rabun	407	34 49 37.50	83 29 23 40	8/27/02	IA/Resample	Below Detection Limits
245-01	Richmond		33 18 27.32	82 03 42 25	3/14/02	IA Only	Not Analyzed
245-02	Richmond		33 29 36.43	82 02 55 16	3/15/02	IA Only	Not Analyzed
245-03	Richmond		33 26 32.42	82 01 32 46	3/15/02	IA Only	Not Analyzed
245-04	Richmond		33 16 12.43	82 05 53 28	3/14/02	IA/QA Samples	Below Detection Limits
245-05	Richmond		33 18 21.36	81 56 31 12	3/15/02	IA Only	Not Analyzed
245-06	Richmond		33 18 58.08	81 59 52 01	3/15/02	IA Only	Not Analyzed
245-07A	Richmond		33 20 32.24	82 15 21 00	4/9/02	IA/QA Samples	Below Detection Limits
245-07B	Richmond		33 20 32.24	82 15 21 00	4/9/02	IA/QA Samples	Below Detection Limits
245-09	Richmond	476	33 29 01.44	82 05 06 22	3/15/02	IA Only	Not Analyzed
245-10	Richmond		33 14 32.21	82 02 42 54	2/25/02	IA/Resample	Below Detection Limits
245-11	Richmond	246	33 16 21.04	82 04 03 22	3/14/02	IA/QA Samples	Below Detection Limits
245-12	Richmond	200	33 18 33.58	82 07 11 38	3/15/02	IA Only	Not Analyzed
245-14	Richmond	110	33 18 35.24	82 10 11 12	3/15/02	IA Only	Not Analyzed
245-16	Richmond	275	33 20 40.34	82 08 06 11	3/15/02	IA Only	Not Analyzed
257-01	Stephens		34 27 27.12	83 09 49 98	11/20/02	IA Only	Not Analyzed
257-02A	Stephens	>100	34 31 59.55	83 18 18 22	8/14/02	IA Only	Not Analyzed
257-02B	Stephens		34 31 59.55	83 18 18 22	8/14/02	IA Only	Not Analyzed
257-03	Stephens	150	34 38 41.35	83 17 19 52	8/14/02	IA Only	Not Analyzed
265-01	Taliaferro		33 36 16.98	82 48 39 12	9/16/02	IA Only	Not Analyzed
265-02	Taliaferro		33 34 57.42	82 59 09 36	9/16/02	IA/QA Samples	Below Detection Limits
265-04	Taliaferro		33 38 28.14	82 49 14 94	9/16/02	IA Only	Not Analyzed
265-06	Taliaferro		33 38 38.76	82 56 43 98	9/16/02	IA Only	Not Analyzed
265-08	Taliaferro		33 39 02.52	82 54 38 58	9/16/02	IA Only	Not Analyzed
265-09	Taliaferro		33 37 35.64	82 50 21 66	9/16/02	IA Only	Not Analyzed
265-10	Taliaferro	35	33 37 41.34	82 54 54 36	9/16/02	IA Only	Not Analyzed
279-08	Toombs	550	32 09 39.90	82 25 47 00	10/23/02	IA/QA Samples	Below Detection Limits
279-09	Toombs		32 09 21.00	82 19 45 80	10/23/02	IA/QA Samples	Below Detection Limits
279-10	Toombs	500	32 03 11.00	82 12 43 80	10/23/02	IA/QA Samples	Below Detection Limits
279-11	Toombs	500	32 04 01.60	82 12 28 40	10/23/02	IA/QA Samples	Below Detection Limits
279-12	Toombs	300	32 08 19.30	82 21 26 60	10/23/02	IA/QA Samples	Below Detection Limits
281-01	Towns		34 50 05.82	83 43 40 50	8/14/02	IA Only	Not Analyzed
281-02	Towns	300	34 56 16.74	83 40 37 92	8/14/02	IA/QA Samples	Below Detection Limits
289-07A	Twiggs		32 36 19.32	83 15 24 32	4/24/02	IA Only	Not Analyzed
289-07B	Twiggs		32 36 19.32	83 15 24 32	4/24/02	IA Only	Not Analyzed
291-01	Union		34 51 34.74	83 52 05 76	8/14/02	IA Only	Not Analyzed
291-02	Union	30	34 49 25.50	83 51 29 40	8/14/02	IA Only	Not Analyzed
291-04	Union		34 54 00.24	83 55 03 42	8/14/02	IA Only	Not Analyzed
291-05	Union	162	34 51 39.66	83 54 03 66	8/14/02	IA/QA Samples	Below Detection Limits
291-06	Union	600	34 47 48.18	83 54 15 90	8/14/02	IA Only	Not Analyzed
291-07	Union	505	34 46 22.44	83 54 08 82	8/14/02	IA/QA Samples	Below Detection Limits
291-08	Union		34 57 40.56	84 02 39 42	8/14/02	IA Only	Not Analyzed

291-09A	Union	235	34 41 20.16	84 03 14.94	8/14/02	IA/QA Samples	Below Detection Limits
291-09B	Union	235	34 43 00.00	84 03 36.30	8/14/02	IA/QA Samples	Below Detection Limits
295-01	Walker		34 37 24.84	85 11 21.18	3/19/02	IA/QA Samples	Below Detection Limits
295-03	Walker		34 48 57.06	85 15 34.62	3/19/02	IA/QA Samples	Below Detection Limits
295-04	Walker	186	34 39 07.80	85 09 14.40	3/16/02	IA/QA Samples	Below Detection Limits
295-05	Walker	700	34 44 21.00	85 25 40.08	3/19/02	IA/QA Samples	Below Detection Limits
295-06	Walker	160	34 47 30.78	85 12 28.80	3/19/02	IA/QA Samples	Below Detection Limits
295-07	Walker		34 47 06.48	85 15 02.34	3/19/02	IA/QA Samples	Below Detection Limits
297-01	Walton		33 43 39.72	83 46 37.08	5/13/02	IA/QA Samples	Below Detection Limits
297-02	Walton		33 52 41.88	83 39 34.68	5/13/02	IA Only	Not Analyzed
297-03	Walton		33 47 35.40	83 35 48.06	5/13/02	IA/QA Samples	Below Detection Limits
297-04	Walton		33 47 35.40	83 35 48.06	5/13/02	IA/QA Samples	Below Detection Limits
297-05	Walton		33 39 27.66	83 39 41.34	5/13/02	IA/QA Samples	Below Detection Limits
297-06	Walton	40	33 49 23.52	83 40 22.20	5/14/02	IA Only	Not Analyzed
297-10A	Walton	40	33 51 19.32	83 42 00.90	5/13/02	IA/QA Samples	Below Detection Limits
297-10B	Walton		33 51 19.32	83 42 00.90	5/13/02	IA Only	Not Analyzed
297-12	Walton		33 50 57.54	83 52 32.16	5/4/02	IA/QA Samples	Below Detection Limits
297-15	Walton		33 45 39.18	83 47 22.86	5/13/02	IA/QA Samples	Below Detection Limits
297-16	Walton		33 38 33.06	83 41 44.46	5/13/02	IA/QA Samples	Below Detection Limits
297-21	Walton		33 48 44.10	83 52 07.60	12/19/02	IA Only	Not Analyzed
297-23	Walton		33 46 08.94	83 51 49.80	12/19/02	IA Only	Not Analyzed
297-26	Walton	90	33 48 19.20	83 52 31.50	5/13/02	IA Only	Not Analyzed
297-28	Walton		33 46 14.46	83 48 07.26	5/13/02	IA/QA Samples	Below Detection Limits
297-29	Walton		33 46 10.80	83 41 57.96	5/14/02	IA Only	Not Analyzed
297-31A	Walton	11	33 51 19.44	83 36 51.06	5/14/02	IA/QA Samples	Below Detection Limits
297-31B	Walton	12	33 51 19.44	83 36 51.06	5/14/02	IA/QA Samples	Below Detection Limits
297-32	Walton		33 46 29.70	83 32 36.42	5/13/02	IA Only	Not Analyzed
297-33	Walton	30	33 44 42.06	83 37 41.28	5/13/02	IA Only	Not Analyzed
301-01	Warren		33 26 08.88	82 34 49.08	4/18/02	IA/QA Samples	Below Detection Limits
301-02A	Warren		33 27 44.10	82 35 27.18	4/7/02	IA/QA Samples	Below Detection Limits
301-02B	Warren		33 27 46.42	82 35 27.27	4/18/02	IA/QA Samples	Below Detection Limits
301-03A	Warren	40	33 18 14.28	82 38 25.66	4/17/02	IA/QA Samples	Below Detection Limits
301-03B	Warren	60	33 18 14.28	82 38 25.66	4/17/02	IA Only	Not Analyzed
303-01	Washington		33 13 40.96	82 46 24.88	2/8/02	IA/QA Samples	Below Detection Limits
303-02	Washington		33 08 07.82	82 50 22.15	2/8/02	IA/QA Samples	Below Detection Limits
303-03	Washington		32 51 52.75	82 50 42.90	2/8/02	IA/QA Samples	Below Detection Limits
303-04	Washington		32 51 33.89	82 38 56.18	2/8/02	IA/QA Samples	Below Detection Limits
303-05	Washington		32 49 25.66	82 47 03.18	2/8/02	IA/QA Samples	Below Detection Limits
303-06	Washington	100	33 00 35.00	82 43 39.45	2/8/02	IA/QA Samples	Below Detection Limits
303-07	Washington	110	32 59 33.44	82 48 49.31	2/8/02	IA/QA Samples	Below Detection Limits
303-08	Washington		32 51 04.93	82 33 26.48	2/8/02	IA/QA Samples	Below Detection Limits
303-09	Washington	165	32 55 01.48	82 59 20.35	4/5/02	IA Only	Not Analyzed
303-10	Washington	120	33 03 34.12	82 57 48.36	4/8/02	IA/QA Samples	Below Detection Limits
303-11	Washington	475	33 58 18.54	83 00 31.26	4/5/02	IA/Resample	Alachlor 0.11 ppb
303-12A	Washington	200	33 03 56.24	82 40 20.24	4/8/02	IA/QA Samples	Below Detection Limits
303-13	Washington	125	32 55 50.35	82 39 25.44	4/8/02	IA/QA Samples	Below Detection Limits
303-14	Washington		33 01 18.54	82 39 07.08	4/8/02	IA/QA Samples	Below Detection Limits

303-15A	Washington	240	33 06 00.40	82 48 29.10	4/8/02	IA Only	Not Analyzed
303-15B	Washington	140	33 06 00.40	82 48 29.10	4/8/02	IA Only	Not Analyzed
303-16	Washington	60	32 57 17.31	83 03 26.20	4/5/02	IA Only	Not Analyzed
303-17	Washington	95	32 58 58.05	82 50 39.22	4/8/02	IA/QA Samples	Below Detection Limits
303-19	Washington	150	32 58 33.14	83 01 41.17	4/5/02	IA Only	Not Analyzed
303-20	Washington	125	32 56 14.13	83 03 22.08	4/5/02	IA Only	Not Analyzed
303-21	Washington	129	32 57 44.28	82 46 55.52	4/8/02	IA/QA Samples	Below Detection Limits
303-22	Washington	88	32 54 29.56	82 58 28.41	4/5/02	IA/Resample	Below Detection Limits
303-23	Washington		32 52 23.49	82 56 40.55	4/5/02	IA Only	Not Analyzed
303-24	Washington		32 54 34.04	82 58 26.10	4/5/02	IA Only	Not Analyzed
305-05	Wayne		31 32 22.57	82 01 10.82	10/24/02	IA/QA Samples	Below Detection Limits
307-08A	Webster	155	32 10 25.51	84 33 40.27	3/12/02	IA/QA Samples	Below Detection Limits
307-08B	Webster		32 10 25.51	84 33 40.27	3/12/02	IA Only	Not Analyzed
307-09	Webster	150	31 56 04.98	84 32 19.32	3/12/02	IA Only	Not Analyzed
307-10	Webster	14	32 05 06.94	84 32 11.36	3/12/02	IA/QA Samples	Below Detection Limits
307-11	Webster	160	31 57 19.46	84 37 37.12	3/12/02	IA/QA Samples	Below Detection Limits
307-12	Webster	180	31 58 34.42	84 31 03.35	3/12/02	IA/QA Samples	Below Detection Limits
309-01	Wheeler	278	32 12 12.27	82 40 02.29	8/8/02	IA Only	Not Analyzed
309-02	Wheeler	250	32 06 17.79	82 42 13.40	8/8/02	IA Only	Not Analyzed
309-03	Wheeler	220	32 03 13.25	82 40 52.17	8/8/02	IA Only	Not Analyzed
309-04	Wheeler		32 09 45.62	82 42 45.20	8/8/02	IA Only	Not Analyzed
309-05	Wheeler	500	32 02 17.89	82 45 23.96	8/8/02	IA Only	Not Analyzed
309-06	Wheeler	430	32 13 16.11	82 46 16.50	8/8/02	IA/QA Samples	Below Detection Limits
309-07	Wheeler	100	32 10 43.06	82 48 32.73	9/11/02	IA Only	Not Analyzed
309-08	Wheeler	300	32 06 20.32	82 38 44.74	8/8/02	IA/Resample	Below Detection Limits
309-09	Wheeler		32 09 17.28	82 50 52.06	8/8/02	IA/QA Samples	Below Detection Limits
309-10	Wheeler		32 13 18.85	82 49 14.25	8/8/02	IA/QA Samples	Below Detection Limits
309-11	Wheeler	300	32 12 14.54	82 50 17.06	8/8/02	IA/QA Samples	Below Detection Limits
309-13	Wheeler		32 15 33.48	82 41 57.72	8/8/02	IA/QA Samples	Below Detection Limits
309-15	Wheeler	700	32 09 10.50	82 45 37.74	8/8/02	IA/QA Samples	Below Detection Limits
309-16	Wheeler		32 11 29.67	82 42 07.98	9/11/02	IA Only	Not Analyzed
311-03	White		34 36 57.06	83 47 34.26	8/15/02	IA Only	Not Analyzed
311-04	White	800	34 37 17.82	83 50 38.70	8/15/02	IA/QA Samples	Below Detection Limits
311-07	White		34 36 24.66	83 40 13.62	8/15/02	IA Only	Not Analyzed
311-08	White	250	34 33 41.94	83 42 52.26	8/15/02	IA Only	Not Analyzed
311-09	White	200	34 36 42.96	83 40 45.90	8/15/02	IA Only	Not Analyzed
311-10	White		34 34 48.06	83 50 12.18	8/15/02	IA Only	Not Analyzed
311-11	White	spring	34 43 31.68	83 43 45.12	8/15/02	IA Only	Not Analyzed
311-12	White	600	34 43 16.08	83 45 12.48	8/15/02	IA Only	Not Analyzed
311-13	White		34 34 46.26	83 39 49.80	8/15/02	IA Only	Not Analyzed
311-16	White	40	34 40 24.78	83 51 46.26	8/15/02	IA Only	Not Analyzed
311-17	White	80	34 31 58.62	83 48 50.64	8/15/02	IA Only	Not Analyzed
311-18	White	500	34 43 20.52	83 45 11.34	8/15/02	IA Only	Not Analyzed
317-01	Wilkes		33 42 40.41	82 42 24.84	7/10/02	IA Only	Not Analyzed
317-02	Wilkes		33 47 28.08	82 45 27.00	7/10/02	IA Only	Not Analyzed
317-03	Wilkes		33 49 32.46	82 48 36.66	4/17/02	IA/QA Samples	Below Detection Limits
317-04	Wilkes	250	33 40 12.96	82 48 58.92	7/10/02	IA Only	Not Analyzed

317-05	Wilkes	250	33 39 00.52	82 52 16.19	7/10/02	IA Only	Not Analyzed
317-06	Wilkes	150	33 56 50.02	82 41 59.35	7/10/02	IA Only	Not Analyzed
317-07	Wilkes	1000	33 40 52.20	82 49 43.06	7/10/02	IA Only	Not Analyzed
317-08	Wilkes	250	33 42 53.39	82 46 50.61	7/10/02	IA Only	Not Analyzed
317-09	Wilkes		33 46 01.28	82 56 00.41	7/10/02	IA Only	Not Analyzed
317-10	Wilkes	220	33 40 59.16	82 54 31.86	7/10/02	IA Only	Not Analyzed
317-13	Wilkes		33 45 10.90	82 46 39.32	7/10/02	IA Only	Not Analyzed
317-14	Wilkes	360	33 44 46.25	82 34 54.94	7/10/02	IA/Resample	Below Detection Limits
317-15	Wilkes		33 55 13.16	82 44 12.35	7/10/02	IA Only	Not Analyzed
317-16	Wilkes	150	33 43 35.18	82 37 23.05	7/10/02	IA Only	Not Analyzed
317-17	Wilkes	125	33 40 02.63	82 46 42.71	7/10/02	IA Only	Not Analyzed
317-18	Wilkes	170	33 42 10.68	82 54 03.84	9/16/02	IA/QA Samples	Below Detection Limits
319-01	Wilkinson		32 47 37.31	82 59 51.47	4/24/02	IA Only	Not Analyzed
319-02	Wilkinson		32 40 49.22	83 15 18.24	4/24/02	IA Only	Not Analyzed
319-03	Wilkinson	161	32 56 14.49	83 14 20.04	4/23/02	IA/QA Samples	Below Detection Limits
319-04	Wilkinson		32 47 15.42	83 00 34.16	4/24/02	IA Only	Not Analyzed
319-05A	Wilkinson	170	32 57 54.60	83 14 01.61	4/23/02	IA Only	Not Analyzed
319-05B	Wilkinson	140	32 57 54.18	83 14 08.38	4/23/02	IA Only	Not Analyzed
319-06	Wilkinson		32 38 53.02	83 11 48.82	4/24/02	IA Only	Not Analyzed
319-07	Wilkinson	88	32 51 43.66	83 15 15.33	4/23/02	IA/QA Samples	Below Detection Limits
319-08	Wilkinson	290	32 38 28.35	83 10 26.07	4/24/02	IA Only	Not Analyzed
319-09	Wilkinson	160	32 38 04.90	83 13 13.50	4/24/02	IA Only	Not Analyzed
319-10	Wilkinson	75	32 48 34.64	83 11 38.76	4/23/02	IA/QA Samples	Below Detection Limits
319-11	Wilkinson	270	32 38 07.36	83 13 06.87	4/24/02	IA Only	Not Analyzed
319-12	Wilkinson		32 45 04.20	83 04 04.70	4/24/02	IA Only	Not Analyzed
319-13	Wilkinson	55	32 51 18.93	83 09 49.41	4/23/02	IA/QA Samples	Below Detection Limits
319-14	Wilkinson	60	32 52 43.44	83 14 17.76	4/23/02	IA/QA Samples	Below Detection Limits
319-16A	Wilkinson		32 47 09.35	83 05 36.45	4/24/02	IA Only	Not Analyzed
319-16B	Wilkinson		32 47 09.35	83 05 36.45	4/24/02	IA Only	Not Analyzed
319-18	Wilkinson	250	32 38 12.33	83 08 03.11	4/24/02	IA Only	Not Analyzed
319-19	Wilkinson	200	32 51 49.85	83 20 47.09	4/23/02	IA/QA Samples	Below Detection Limits
319-20	Wilkinson	300	32 48 53.70	83 14 44.95	4/24/02	IA Only	Not Analyzed
319-21	Wilkinson	160	32 55 58.86	83 18 45.03	4/23/02	IA/QA Samples	Below Detection Limits
319-23	Wilkinson	220	32 39 43.14	83 06 52.94	4/24/02	IA Only	Not Analyzed
319-24	Wilkinson	175	32 54 48.70	83 20 26.10	12/18/02	IA Only	Not Analyzed
319-25	Wilkinson	200	32 44 17.46	83 02 58.98	12/18/02	IA Only	Not Analyzed
319-27A	Wilkinson	160	32 48 18.10	83 16 00.50	12/18/02	IA Only	Not Analyzed

(1) Types IA Only = immunoassay only, sample tested below USEPA Method 507

IA/QA = immunoassay sample, with QA sample for laboratory analysis collected at the same time as the immunoassay sample

IA/Resample = immunoassay indicated potential presence of target pesticides and related compounds at concentrations in excess of USEPA Method 507 minimum detection limits, resulting in resamples being taken on later dates for laboratory analysis using USEPA Method 507.

Cost: \$84.00
Quantity: 37

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Legend




-  Coastal counties that will not be sampled
-  Dougherty Plain
-  EPD Regions

Figure 1: Sampling Regions for the Domestic Water Well Testing Project

N200.64
5/1
10/5/1
map

Figure 2. Sample Distribution Map for the Domestic Well Water Testing Project, May 2000 through December 31, 2002



PESTICIDE DETECTIONS

	Well ID	Pesticide	Concentration	MCL	
5/2000-12/2001	071-5	Alachlor	3.65*	2	
	087-01	Alachlor	3.65*	2	
	099-01	Metolachlor	2.09	Not established	
	263-11	Atrazine	0.22	3	
	005-04	Alachlor	1.5	2	
	005-11	Alachlor	6.2*	2	
	243-26	Alachlor	1.22	2	
	2002	119-08	Metolachlor	Trace	Not established
		125-02A	Metolachlor	Trace	Not established
		125-02B	Metolachlor	Trace	Not established
125-06		Metolachlor	Trace	Not established	
125-07		Metolachlor	Trace	Not established	
163-08		Alachlor	0.51	2	
241-06		Metolachlor	Trace	Not established	
	303-11	Alachlor	0.11	2	

Note: Test Method used to confirm detections: EPA 507.
Concentrations are in parts per billion (ppb).
* indicates a concentration in excess of maximum contaminant levels (MCLs) for public drinking water supplies.