## Attachment 4.1

Anniston Community Health Survey: Follow up Study and Dioxin Analyses

## Project Year, Performing Laboratory, and Analyte

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| **Project Year** | **Laboratory and Contact** | **Analyte** | **\* CLIA** | **Matrix** | **Volume** |
| **Year 1** | ***NCEH/Division of Laboratory Sciences***  *Contact: Dr. Andreas Sjodin* | *7 Dioxins/10 Furans/9 Co-planar and Mono-ortho-substituted PCBs* | Yes † | Serum | 40 ml |
| **Year 2** | ***NCEH/Division of Laboratory Sciences***  *Contact: Dr. Andreas Sjodin* | *30 Di-ortho-substituted PCBs and 9 Pesticides* | Yes † | Serum | 4 ml |
| ***Northwest Lipid Metabolism and Diabetes Research Laboratories Seattle, WA***  *Contact: Dr. Santica Marcovina* | *Glycemic Parameters*  HbA1c |  | Whole blood | 2 ml |
| Glucose  Insulin  Anti-GAD  Anti-IA2 | Yes † | Serum | 2 ml (for all four) |
| *Lipid Panel*  Total cholesterol  Triglycerides  LDL  HDL  Phospholipids  Free Fatty acids | Serum | 2 ml (for all six) |
| ***University of Southern California (USC) Clinical Laboratories Endocrine Services, Los Angeles, CA***  *Contact: Dr. Carol Spencer* | *Thyroid Panel*  TgAb  TPO Ab  TSH  Free T4  Total T4  Total T3  THBR | Yes | Serum | 2 ml (for all seven) |

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| **Project Year** | **Laboratory and Contact** | **Analyte** | **\* CLIA** | **Matrix** | **Volume** |
| **Year 3** | ***NCEH/Division of Laboratory Sciences***  *Contact: Dr. Andreas Sjodin* | PBDEs (17, 28, 47, 66, 85, 99, 100, 153, 154, 183, and 209) | Yes † | Serum | 4 ml |
| ***NCEH/Division of Laboratory Sciences***  *Contact: Dr. Kathy Caldwell* | Lead/Cadmium/Mercury/Manganese/Selenium | Yes † | Whole Blood  Serum | 3 ml  1 ml |
| ***SUNY Upstate Medical University, Syracuse, NY***  *Contact: Prof. Allen Silverstone* | *Autoimmune Parameters*  Rheumatoid Factor  ANA screen  ANA titer | Yes.  Individual results not reported. | Serum | 2 ml (for all)  Plus stored samples from 2005-2007 ACHS |
| ***Jacksonville Medical Center Clinical Biochemistry Laboratory, Jacksonville, AL***  *Contact: Mr. Arlon Sheffield* | *Standard Liver Tests*  Albumin (Alb)  Alanine transaminase (ALT)  Aspartate transaminase (AST)  Alkaline phosphatase (ALP)  Total bilirubin (TBIL)  Direct bilirubin (DBIL or Conjugated Bilirubin)  Gamma glutamyl transpeptidase (GGT) | Yes | Serum | 2 ml (for all) |
| ***University of Louisville, Louisville, KY***  *Contact: Dr. Matt Cave* | *Cytokines*       Cytokeratin 18 M30 (CK-18 M30)       Cytokeratin 18 M65 (CK-18 M65)       Adipocytokines            Adiponectin            Resistin            PAI-1            MCP-1            TNF-α            Interleukin 1β (IL1β)            Interleukin 6 (IL6)            Interleukin 8 (IL8)            Leptin       Antioxidant assay       Hyaluronic acid       Endotoxin | No. Individual results not reported. | Serum | 2 ml (for all) |

\* Indicates CLIA-regulated procedure; † indicates CLIA 88 reference laboratory.