

ICPSR 25502

**National Health and Nutrition
Examination Survey (NHANES),
2001-2002**

*United States Department of Health and
Human Services. Centers for Disease
Control and Prevention. National Center
for Health Statistics*

NCHS User Guide -- Laboratory: Lab 06HM
Heavy Metals (Subsample)

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NHANES 2001–2002 Data Release
March 2005
Documentation for Laboratory Results

Laboratory 6 - Heavy Metals

(1) Documentation File Date – March 17, 2005

(2) Documentation File Name – Laboratory 6 HM- Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium

(3) Survey Years Included in this File Release – 2001–2002

(4) Component Description

4.1 Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium

Trace metals have been associated with adverse health effects in occupational studies or laboratory studies, but have not been monitored in general population groups.

Information on levels of exposure to these compounds is essential to determine the need for regulatory mechanisms to reduce the levels of hazardous pollutants to which the general population is exposed and to establish population-based reference intervals for several potentially toxic metals.

(5) Sample Description:

5.1 Eligible Sample

Participants aged 6 years and older who met the subsample requirements and who did not meet any of the exclusion criteria composed the eligible sample.

(6) Description of the Laboratory Methodology

6.1 Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten and Uranium

Inductively coupled plasma-mass spectrometry (ICP-MS) is a multi-element analytical technique.¹ Liquid samples are introduced into the ICP through a nebulizer and spray chamber carried by a flowing argon stream. By coupling radio frequency power into flowing argon, a plasma is created in which the predominant species are positive argon ions and electrons. The sample passes through a region of the plasma with a temperature of 6000–8000 K. The thermal energy atomizes the sample and then ionizes the atoms. The ions, along with the argon, enter the mass spectrometer through the interface that separates the ICP, which operates at atmospheric pressure, from the mass spectrometer, which operates

at a pressure of 10^{-6} torr. The mass spectrometer permits detection of ions at each mass in rapid sequence, allowing individual isotopes of an element to be determined. Electrical signals resulting from the detection of the ions are processed into digital information that is used to indicate the intensity of the ions and subsequently the concentration of the element. A total of 15 elements, including Be, Mn, Co, Ni, Mo, Sn, Sb, Cs, Ba, W, Pt, Tl, and Pb are measured in urine by ICP-MS based on the method by Kevin J. Mulligan et al.² Urine samples are diluted 1+9 with 2% v/v double-distilled concentrated nitric acid (GFS Chemicals Inc., Columbus, OH) containing both iridium and rhodium for multi-internal standardization. This procedure may be used for all 15 elements or subsets of the 15 elements.

This method is used to achieve rapid and accurate quantification of multiple elements of toxicological and nutritional interest. The method is sensitive enough to be used to rapidly screen urine specimens from subjects suspected of exposure to a number of important toxic elements or to evaluate environmental or other non-occupational exposure to these same elements.

6.2 ***Special note regarding urine cadmium***

Urine cadmium levels are corrected for interference from molybdenum oxide. The variable name for the corrected cadmium levels is URDUCD. The formula for the correction is:

$$\text{URDUCD} = \text{URXUCD} - [(0.00175 * \text{URXUMO}) - 0.0136]$$

where URXUCD is the original value for the cadmium result.

Corrected values that are less than zero are recoded to equal zero. If the result for urine molybdenum is missing, then the result for the corrected cadmium result is also missing.

The corrected data set also includes a variable URDUCDLC to indicate which results were below the limit of detection. For results below the limit of detection, the corrected value was calculated using the detection limit for urinary cadmium divided by the square root of two (value = 0.04).

See below for further explanation of this correction:

6.3 Effect of Molybdenum Oxide on Urine Cadmium Results

The ICP-MS method for the determination of urine cadmium has not been corrected for a possible interference from molybdenum oxide, MoO. Because the historical Proficiency Testing (PT) results for urine Cd were well within expected ranges and no consistent bias was observed with these PT samples, including several years of challenges, it was thought that, at typical biological molybdenum levels and typical instrumental oxide levels, the interference would not be significant. Upon investigation with over 6000 NHANES samples analyzed, we were able to see a possible effect on the urine Cd results when the results for the urine Cd versus Mo concentration were plotted. This effect cannot be easily seen with a few hundred sample results. Upon further investigation, we determined that the historical NHANES urine Cd results were biased high. For example, a 1st order approximation of the effect of this interference was determined to be 0.33 µg/L (at the 50th percentile) for urine Cd without correcting for the MoO interference versus 0.19 µg/L with the correction. Therefore, we investigated how best to implement a revised analytical method to eliminate

this interference. In addition, until DLS had received and implemented some new ICP-MS technology, we could not eliminate this interference using the traditional ICP-MS technologies. We have recently implemented this new technology (Dynamic Reaction Cell technology [DRC]) and have been able to develop a revised analytical method that allows for correction of this MoO interference.

A method comparison was performed using 208 samples that included the typical range of Cd and Mo concentrations in urine. The results are shown in Figure 1, where $(Cd_{Std\ Method} - Cd_{Corrected\ Method})$ is plotted versus the urine molybdenum concentration. $Cd_{Std\ Method}$ is the non-DRC method and $Cd_{Corrected\ Method}$ is the DRC method. The best fit regression line had an $r^2 = 0.81$ and is given by Equation (1):

$$(Cd_{Std\ Method} - Cd_{Corrected\ Method}) = 0.00175 (Mo) - 0.01360 \quad (1)$$

Equation (2) is the adjustment equation used to correct the Standard Method results to the new Corrected method (the new DRC method).

$$\begin{aligned} Cd_{Corrected\ Method} &= Cd_{Std\ Method} - (0.00175 * (Mo) + 0.01360) UCD_{Corrected\ Method} \\ &= UCd_{Std\ Method} - (0.00175 * (UMO) + 0.01360) \end{aligned} \quad (2)$$

(7) Laboratory Quality Control and Monitoring

Urine specimens are processed, stored, and shipped to the Division of Environmental Health Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention for analysis.

Detailed specimen collection and processing instructions are discussed in the NHANES Laboratory/Medical Technologists Procedures Manual (LPM). Vials are stored under appropriate frozen (-20°C) conditions until they are shipped to National Center for Environmental Health for testing.

(8) Data Processing and Editing

Automated data collection procedures for the survey were introduced in NHANES 1999. In the mobile examination centers (MECs) and analytical laboratories, data for the laboratory component is recorded directly onto a computerized data collection form. The system is centrally integrated and it allows for ongoing monitoring of much of the data. While the complete blood count and pregnancy analyses are performed in the MEC laboratory, most analyses are conducted elsewhere by approximately 21 laboratories across the United States.

Guidelines have been developed that provide standards for naming variables, filling missing values, and handling missing records. NCHS staff, assisted by contract staff, has developed data-editing specifications that check data sets for valid codes, ranges, and skip pattern consistencies and examine the consistency of values between interrelated variables. Comments have been reviewed and recoded. NCHS staff verifies extremely high and low

values whenever possible, and numerous consistency checks are performed. Nonetheless, users should examine the range and frequency of values before analyzing data.

For laboratory tests with a lower detection limit, results below the lower detection limit are replaced with a value equal to the detection limit divided by the square root of two. This value has been created to help the user distinguish a nondetectable laboratory test result from a measured laboratory test result.

(9) Data Access:

All data are publicly available.

(10) Analytic Notes for Data Users:

10.1 Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium

Measures of this urinary multi-analyte profile are assessed in participants aged 6 years and over on a randomly selected 1/3 subsample. Specific sample weights for this subsample are included in this data file and should be used when analyzing these data. **Read the Special Sample Weights for this Dataset section below before beginning analysis.**

The dataset includes 2-year and 4-year subsample weights. The 4-year weights should be used if these 2001–2002 data are combined with 1999–2000 data. The 1999–2000 data files have been updated to include the subsample 4-year weights. The recommended procedure for variance estimation requires use of stratum and PSU variables (SDMVSTRA and SDMVPSU, respectively), which are included in the demographic data file for each data release. For further information, see the NHANES Analytic Guidelines, June 2004 version at: http://www.cdc.gov/nchs/data/nhanes/nhanes_general_guidelines_june_04.pdf

(11) References

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5. Messina M, Barnes S, Setchell KD. Phyto-oestrogens and breast cancer. Lancet. 1997;350:971–972.
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**National Health and Nutrition Examination Survey
Codebook for Data Production (2001-2002)**

**Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead,
Platinum, Antimony, Thallium, Tungsten, and Uranium (L06HM_B)
Person level data -- use 2-year and 4-year weights for analysis**

July 2005

SEQN	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Respondent sequence number
English Text: Respondent sequence number.	
English Instructions:	

WTSHM2YR	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Heavy Metal Subsample 2 Year Mec Weight
English Text: Heavy Metal Subsample 2 Year Mec Weight	
English Instructions:	
Codes: 0= Non-Respondent >0= Respondent	Skip To Values:

WTSHM4YR	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Heavy Metal Subsample 4 Year Mec Weight
English Text: Heavy Metal Subsample 4 Year Mec Weight	
English Instructions:	
Codes: 0= Non-Respondent >0= Respondent	Skip To Values:

URXUCR	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label

	Creatinine, urine (mg/dL)
English Text: Creatinine, urine (mg/dL)	
English Instructions:	

URXUBA	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Barium, urine (ng/mL)
English Text: Barium, urine (ng/mL)	
English Instructions:	

URXUBE	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Beryllium, urine (ng/mL)
English Text: Beryllium, urine (ng/mL)	
English Instructions:	

URDUCD	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Cadmium, urine (ng/mL)
English Text: Cadmium, urine (ng/mL)	
English Instructions:	

URDUCDLC	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Urinary cadmium comment code
English Text: Urinary cadmium comment code	
English Instructions:	
Codes:	Skip To Values:
0= detectable result	
1= below detectable result	
. = missing	

URXUCO	Target
	B(6 Yrs. to 150 Yrs.)

Hard Edits	SAS Label
	Cobalt, urine (ng/mL)
English Text: Cobalt, urine (ng/mL)	
English Instructions:	

URXUCS	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Cesium, urine (ng/mL)
English Text: Cesium, urine (ng/mL)	
English Instructions:	

URXUMO	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Molybdenum, urine (ng/mL)
English Text: Molybdenum, urine (ng/mL)	
English Instructions:	

URXUPB	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Lead, urine (ng/mL)
English Text: Lead, urine (ng/mL)	
English Instructions:	

URXUPT	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Platinum, urine (ng/mL)
English Text: Platinum, urine (ng/mL)	
English Instructions:	

URXUSB	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Antimony, urine (ng/mL)
English Text: Antimony, urine (ng/mL)	

English Instructions:

URXUTL	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Thallium, urine (ng/mL)
English Text: Thallium, urine (ng/mL)	
English Instructions:	

URXUTU	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Tungsten, urine (ng/mL)
English Text: Tungsten, urine (ng/mL)	
English Instructions:	

URXUUR	Target
	B(6 Yrs. to 150 Yrs.)
Hard Edits	SAS Label
	Uranium, urine (ng/mL)
English Text: Uranium, urine (ng/mL)	
English Instructions:	



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Heavy Metal Subsample 2 Year Mec Weight				
WTSHM2YR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0: Non Respondent	114	4.07	114	4.07
>0: Respondent	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Heavy Metal Subsample 4 Year Mec Weight				
WTSHM4YR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0: Non Respondent	114	4.07	114	4.07
>0: Respondent	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Creatinine, urine (mg/dL)				
URXUCR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	95	3.39	95	3.39
8 to 699	2709	96.61	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Barium, urine (ng/mL)				
URXUBA	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.08 to 248.7	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Beryllium, urine (ng/mL)				
URXUBE	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.09 to 0.2	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Cadmium, urine (ng/mL)				
URDUCD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0 to 36.777475	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Urinary cadmium comment code				
URDUCDLC	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0 : detectable result	2582	92.08	2696	96.15
1 : below detectable result	108	3.85	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Cobalt, urine (ng/mL)				
URXUCO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.05 to 38.68	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Cesium, urine (ng/mL)				
URXUCS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.1 to 363.48	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Molybdenum, urine (ng/mL)				
URXUMO	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.57 to 614.5	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Lead, urine (ng/mL)				
URXUPB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.07 to 13.1	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Platinum, urine (ng/mL)				
URXUPT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.03 to 1177.46	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Antimony, urine (ng/mL)				
URXUSB	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.03 to 4.9	2690	95.93	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Thallium, urine (ng/mL)				
URXUTL	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	151	5.39	151	5.39
0.01 to 2.82	2653	94.61	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Tungsten, urine (ng/mL)				
URXUTU	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	152	5.42	152	5.42
0.03 to 10.09	2652	94.58	2804	100.00



Frequencies for Urinary Barium, Beryllium, Cadmium, Cobalt, Cesium, Molybdenum, Lead, Platinum, Antimony, Thallium, Tungsten, and Uranium (LAB06HM)

Uranium, urine (ng/mL)				
URXUUR	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Missing	114	4.07	114	4.07
0.003 to 3.469	2690	95.93	2804	100.00

NHANES Subsample Notes and Data

For several NHANES files, data were collected or processed on a smaller sample (subsample) of individuals. Each of these subsamples is a nationally representative sample. For each subsample, the analytic sample size is smaller and appropriate sample weights have been calculated to reflect both the additional stage of sampling and the additional nonresponse (if any) for the subsample. These weights differ from the full examination weight and the revised weights must be used for statistical estimation. For each data file, the appropriate sample weights are included on the file along with the appropriate replicate weights needed for sampling error estimation. A common processing error is to use either the wrong sampling weight or to use the wrong set of replicate weights.

Due to smaller sample sizes, the sampling errors for subsamples will be larger than for comparable data items on the full examination sample. Also, the potential impact of outliers (large data values especially in conjunction with large sampling weights) should be addressed in any analysis of these data - especially when the prevalence is less than 10 percent. Please note that when merging full sample data items to the subsample data files, the analytic sample is the subsample and the subsample weights must be used. Users are strongly urged to read the data file documentation and to take care to ensure proper analysis and interpretation of the data.

NHANES 2001-2002 Data Release
May 2004

**General Information about the NHANES 2001-2002 Laboratory Methodology and
Public Data Files**

Laboratory Component Description

The NHANES 2001-2002 laboratory data files include findings from analyses of blood, urine, and swabs. Specimens were collected at the mobile examination centers (MECs). The specific laboratory test target populations are based on the survey participant's gender and age at the time of the Household Interview. Blood and urine collection methods and exclusion criteria are described in this section.

The NHANES laboratory component tasks include the collection, processing, storage, and shipment of blood, urine, and other biological and environmental specimens to analytic laboratories. Currently, 32 laboratories across the United States analyze NHANES laboratory specimens.

The blood collection procedure consists of administering a questionnaire to screen for conditions that exclude participants from the blood draw. Fasting status is recorded. The urine collection procedure consists of urine specimen collection and processing, and pregnancy testing.

Venipuncture Exclusion Criteria: The following exclusion criteria apply to all tests that require blood specimens:

Hemophiliacs

Participants who received chemotherapy within the last 4 weeks

The presence of rashes, gauze dressings, casts, edema, paralysis, tubes, open sores or wounds, withered arms or limbs missing, damaged, sclerosed or occluded veins, allergies to cleansing reagents, burned or scarred tissue, shunt or intravenous lines on both arms.

Data Collection

Automated data collection procedures were used. In the MECs and analytical laboratories, data for the laboratory component is recorded directly into a computerized database. Survey forms are also automated. The data collection and reporting systems are integrated with the main NHANES survey database. While the complete blood count and pregnancy analyses are performed in the MEC laboratory, most of the laboratory analyses are conducted off-site.

Laboratory Component Staff

The NHANES 2001-2002 laboratory staff consists of medical technologists and phlebotomists. The American Society for Clinical Pathologists or a similar organization certifies the medical technologists and the phlebotomists.

Training

All laboratory staff completed comprehensive training in standardized laboratory procedures before they began working in the MEC. The medical technologists hold baccalaureates in medical technology. The MEC phlebotomists complete comprehensive training in pediatric phlebotomy techniques, including instruction by a pediatric nurse practitioner.

All MEC staff completed required training in safety, subject privacy and confidentiality, and cardio-pulmonary resuscitation (CPR).

Spanish Language Instructions

All NHANES laboratory protocol scripts that were used to describe the laboratory procedures to survey participants were developed and pretested in English and Spanish. Extensive training was completed with MEC staff to ensure the quality and comparability of staff interactions with Spanish-speaking respondents

Data Collection Forms

Detailed specimen collection and processing instructions are discussed in the NHANES Laboratory/Medical Technologists Procedures Manual (LPM). Each chapter in the LPM specifies the procedures to be used for collecting, labeling, processing, preserving, and transporting specimens for each method used in the survey.

Quality Control Procedures

Mobile Examination Center (MEC)

Laboratory team performance is monitored using several techniques. NCHS and contract consultants used structured quality assurance evaluations during unscheduled site visits to evaluate the quality of the laboratory work and implementation of the required quality control procedures. Laboratory staff were observed and given feedback with respect to equipment operation, specimen collection and preparation, interaction with survey participants, and implementation of the survey protocol. Formal staff retraining sessions are conducted annually to ensure that required skill levels are maintained.

The NHANES quality control and quality assurance protocols met the 1988 Clinical Laboratory Improvement Act. Detailed quality control and quality assurance instructions are discussed in the NHANES LPM.

Laboratory Quality Control

As part of the overall quality assurance process for the survey, all collection materials, vacutainer tubes, and storage containers used for trace elements assays were initially prescreened by the CDC/NCEH, Environmental Health Laboratory Sciences Laboratory for background contamination levels of lead, cadmium, total and speciated mercury. Lead, cadmium, and total and speciated mercury are fairly ubiquitous contaminants; and blood may be collected in red-top tubes after the acceptability of the test tubes has been confirmed. Special lead-free tubes are not required. Ordinary EDTA tubes may similarly be used after prescreening has confirmed no contamination.

Monitoring Analytical Laboratories

NCHS uses several methods to monitor the quality of the analyses performed by the NHANES contract laboratories. In the MEC, these methods include performing second examinations on previously examined participants and “blind” split samples collected during practice (“dry run”) sessions. In addition, contract laboratories randomly perform repeat testing on two percent of all specimens.

NCHS developed and distributed a quality control (QC) protocol to each NHANES contract laboratory. The Westgard rules to be used when running NHANES specimens are included in the protocols. Progress reports prepared by the contract laboratories document problems encountered during shipping or receipt of specimens; summary statistics for each control pool, QC graphs, instrument calibration, reagents, and any special considerations are submitted to NCHS and Westat quarterly. The reports are reviewed for trends or shifts in the data. The laboratories are required to explain any identified areas of concern. NCHS and Westat review the progress reports.

Data Processing and Preparation

The NHANES data processing guidelines provide NCHS and contractor staff with standards for naming variables, filling missing values, and handling missing records. NCHS staff, assisted by contract staff, developed data editing specifications that check data sets for valid codes, ranges, and skip pattern consistencies and examine the consistency of values between interrelated variables. Comments are reviewed and recoded. NCHS staff verified extremely high and low values. Numerous consistency checks were performed during data preparation. Nevertheless, data users should examine variable ranges and frequencies and other descriptive statistics before analyzing the data.

Low Detection Limits

For laboratory tests with a lower detection limit, results below the lower detection limit are replaced with a value equal to the detection limit divided by the square root of two. This value is created to help the user distinguish a nondetectable laboratory test result from a measured laboratory test result.

Special Notes for the Laboratory Data

The analysis of NHANES 2001-2002 phlebotomy data must be conducted using the appropriate survey design and demographic variables. The NHANES 2001-2002 Household Questionnaire Data Files contain demographic data, health indicators, and other related information collected during household interviews. The questionnaire files also contain the survey design variables and sample weight variables. The Phlebotomy File includes auxiliary information such as fasting status, the time venipuncture, and the conditions precluding venipuncture. The household questionnaire and phlebotomy files may be linked to the laboratory data file using the unique survey participant identifier SEQN.

**NHANES 2001-2002 Lab Data Items
March 2009**

Note: Two versions of the complete list of variables are presented as **Table A** and **Table B**, respectively, in this document.

Variables in **Table A** are sorted by "Component" and variable position in the data.

Variables in **Table B** are sorted alphabetically by "Label".

Table A: List of variables sorted by "Component" and variable position in the data.

Item #	File name	Component	Variable ID	Label
1	L02_B	Hepatitis A, B, C and D	SEQN	Respondent sequence number
2	L02_B	Hepatitis A, B, C and D	LBXHA	Hepatitis A antibody
3	L02_B	Hepatitis A, B, C and D	LBXHBC	Hepatitis B core antibody
4	L02_B	Hepatitis A, B, C and D	LBDHBG	Hepatitis B surface antigen
5	L02_B	Hepatitis A, B, C and D	LBXHBS	Hepatitis B surface antibody
6	L02_B	Hepatitis A, B, C and D	LBDHCV	Hepatitis C antibody (confirmed)
7	L02_B	Hepatitis A, B, C and D	LBDHD	Hepatitis D (anti-HDV)
8	L02HBS_B	Hepatitis B Surface Antibody	SEQN	Respondent sequence number
9	L02HBS_B	Hepatitis B Surface Antibody	LBXHBS	Hepatitis B Surface Antibody
10	L02HPA_B	Hepatitis A	SEQN	Respondent sequence number
11	L02HPA_B	Hepatitis A	LBXHA	Hepatitis A Antibody (Anti-HAV)
12	L03_B	Human Immunodeficiency Virus	SEQN	Respondent sequence number
13	L03_B	Human Immunodeficiency Virus	LBDHI	HIV antibody test result
14	L03_B	Human Immunodeficiency Virus	LBXCD4	CD4 counts (cells/mm3)
15	L03_B	Human Immunodeficiency Virus	LBXCD8	CD8 counts (cells/mm3)
16	L04VOC_B	Volatile Organic Compounds	SEQN	Respondent sequence number
17	L04VOC_B	Volatile Organic Compounds	WTSVOC2Y	VOC subsample 2 yr MEC Weight
18	L04VOC_B	Volatile Organic Compounds	WTSVOC4Y	VOC subsample 4 yr MEC Weight
19	L04VOC_B	Volatile Organic Compounds	LBXWBF	Water Bromoform (ng/mL)
20	L04VOC_B	Volatile Organic Compounds	LBDWBFLC	Water Bromoform Comment Code
21	L04VOC_B	Volatile Organic Compounds	LBXWCF	Water Chloroform (ng/mL)
22	L04VOC_B	Volatile Organic Compounds	LBDWCFLC	Water Chloroform Comment Code
23	L04VOC_B	Volatile Organic Compounds	LBXWBM	Water Bromodichloromethane (ng/mL)
24	L04VOC_B	Volatile Organic Compounds	LBDWBMLC	Water Bromodichloromethane Comment Code
25	L04VOC_B	Volatile Organic Compounds	LBXWCM	Water Dibromochloromethane (ng/mL)

Item #	File name	Component	Variable ID	Label
26	L04VOC_B	Volatile Organic Compounds	LBDWCMLC	Water Dibromochloromethane Comment Code
27	L04VOC_B	Volatile Organic Compounds	LBXWME	Water MTBE (ng/mL)
28	L04VOC_B	Volatile Organic Compounds	LBDWMELC	Water MTBE Comment Code
29	L04VOC_B	Volatile Organic Compounds	LBXV4C	Blood Tetrachloroethene (ng/mL)
30	L04VOC_B	Volatile Organic Compounds	LBDV4CLC	Blood Tetrachloroethene Comment Code
31	L04VOC_B	Volatile Organic Compounds	LBXVBF	Blood Bromoform (pg/mL)
32	L04VOC_B	Volatile Organic Compounds	LBDVBFLC	Blood Bromoform Comment Code
33	L04VOC_B	Volatile Organic Compounds	LBXVBM	Blood Bromodichloromethane (pg/mL)
34	L04VOC_B	Volatile Organic Compounds	LBDVBMLC	Blood Bromodichloromethane Comment Code
35	L04VOC_B	Volatile Organic Compounds	LBXVBZ	Blood Benzene (ng/mL)
36	L04VOC_B	Volatile Organic Compounds	LBDVBZLC	Blood Benzene Comment Code
37	L04VOC_B	Volatile Organic Compounds	LBXVCF	Blood Chloroform (pg/mL)
38	L04VOC_B	Volatile Organic Compounds	LBDVCFLC	Blood Chloroform Comment Code
39	L04VOC_B	Volatile Organic Compounds	LBXVCM	Blood Dibromochloromethane (pg/mL)
40	L04VOC_B	Volatile Organic Compounds	LBDVCMLC	Blood Dibromochloromethane Comment Code
41	L04VOC_B	Volatile Organic Compounds	LBXVCT	Blood Carbon Tetrachloride (ng/mL)
42	L04VOC_B	Volatile Organic Compounds	LBDVCTLC	Blood Carbon Tetrachloride Comment Code
43	L04VOC_B	Volatile Organic Compounds	LBXVDB	Blood 1,4-Dichlorobenzene (ng/mL)
44	L04VOC_B	Volatile Organic Compounds	LBDVDBLC	Blood 1,4-Dichlorobenzene Comment Code
45	L04VOC_B	Volatile Organic Compounds	LBXVEB	Blood Ethylbenzene (ng/mL)
46	L04VOC_B	Volatile Organic Compounds	LBDVEBLC	Blood Ethylbenzene Comment Code
47	L04VOC_B	Volatile Organic Compounds	LBXVME	Blood MTBE (pg/mL)
48	L04VOC_B	Volatile Organic Compounds	LBDVMELC	Blood MTBE Comment Code
49	L04VOC_B	Volatile Organic Compounds	LBXVOX	Blood o-Xylene (ng/mL)
50	L04VOC_B	Volatile Organic Compounds	LBDVOXLC	Blood o-Xylene Comment Code
51	L04VOC_B	Volatile Organic Compounds	LBXVST	Blood Styrene (ng/mL)
52	L04VOC_B	Volatile Organic Compounds	LBDVSTLC	Blood Styrene Comment Code
53	L04VOC_B	Volatile Organic Compounds	LBXVTC	Blood Trichloroethene (ng/mL)
54	L04VOC_B	Volatile Organic Compounds	LBDVTCLC	Blood Trichloroethene Comment Code
55	L04VOC_B	Volatile Organic Compounds	LBXVTO	Blood Toluene (ng/mL)
56	L04VOC_B	Volatile Organic Compounds	LBDVTOLC	Blood Toluene Comment Code
57	L04VOC_B	Volatile Organic Compounds	LBXVXY	Blood m-/p-Xylene (ng/mL)
58	L04VOC_B	Volatile Organic Compounds	LBDVXYLC	Blood m-/p-Xylene Comment Code

Item #	File name	Component	Variable ID	Label
59	L05_B	Chlamydia and Gonorrhea	SEQN	Respondent sequence number
60	L05_B	Chlamydia and Gonorrhea	URXUGC	Gonorrhea, urine
61	L05_B	Chlamydia and Gonorrhea	URXUCL	Chlamydia, urine
62	L06_B	Nutritional Biochemistries	SEQN	Respondent sequence number
63	L06_B	Nutritional Biochemistries	LBXBCD	Cadmium (ug/L)
64	L06_B	Nutritional Biochemistries	LBDBCDSI	Cadmium (nmol/L)
65	L06_B	Nutritional Biochemistries	LBXBPB	Lead (ug/dL)
66	L06_B	Nutritional Biochemistries	LBDBPBSI	Lead (umol/L)
67	L06_B	Nutritional Biochemistries	LBXRBF	Folate, RBC (ng/mL RBC)
68	L06_B	Nutritional Biochemistries	LBDRBFSI	Folate, RBC (nmol/L RBC)
69	L06_B	Nutritional Biochemistries	LBXTHG	Mercury, total (ug/L)
70	L06_B	Nutritional Biochemistries	LBETHGSI	Mercury, total (umol/L)
71	L06_B	Nutritional Biochemistries	LBXIHG	Mercury, inorganic (ug/L)
72	L06_B	Nutritional Biochemistries	LBETHGSI	Mercury, inorganic (umol/L)
73	L06_B	Nutritional Biochemistries	LBDFCY	Homocysteine (umol/L)
74	L06_B	Nutritional Biochemistries	LBXFER	Ferritin (ng/mL)
75	L06_B	Nutritional Biochemistries	LBDFERSI	Ferritin (ug/L)
76	L06_B	Nutritional Biochemistries	LBXB12	Vitamin B12, serum (pg/mL)
77	L06_B	Nutritional Biochemistries	LBDB12SI	Vitamin B12, serum (pmol/L)
78	L06_B	Nutritional Biochemistries	LBXFOL	Folate, serum (ng/mL)
79	L06_B	Nutritional Biochemistries	LBDFOLSI	Folate, serum (nmol/L)
80	L06_B	Nutritional Biochemistries	LBXMMA	Methylmalonic acid (umol/L)
81	L06_B	Nutritional Biochemistries	LBXCOT	Cotinine (ng/mL)
82	L06_B	Nutritional Biochemistries	LBDCOTLC	Cotinine comment code
83	L06_B	Nutritional Biochemistries	URXUHG	Mercury, urine (ng/mL)
84	L06HM_B	Heavy Metals	SEQN	Respondent sequence number
85	L06HM_B	Heavy Metals	WTSHM2YR	Heavy Metal Subsample 2 Year Mec Weight
86	L06HM_B	Heavy Metals	WTSHM4YR	Heavy Metal Subsample 4 Year Mec Weight
87	L06HM_B	Heavy Metals	URXUCR	Creatinine, urine (mg/dL)
88	L06HM_B	Heavy Metals	URXUBA	Barium, urine (ng/mL)
89	L06HM_B	Heavy Metals	URXUBE	Beryllium, urine (ng/mL)
90	L06HM_B	Heavy Metals	URDUCD	Cadmium, urine (ng/mL)
91	L06HM_B	Heavy Metals	URDUCDLC	Urinary cadmium comment code
92	L06HM_B	Heavy Metals	URXUCO	Cobalt, urine (ng/mL)
93	L06HM_B	Heavy Metals	URXUCS	Cesium, urine (ng/mL)

Item #	File name	Component	Variable ID	Label
94	L06HM_B	Heavy Metals	URXUMO	Molybdenum, urine (ng/mL)
95	L06HM_B	Heavy Metals	URXUPB	Lead, urine (ng/mL)
96	L06HM_B	Heavy Metals	URXUPT	Platinum, urine (ng/mL)
97	L06HM_B	Heavy Metals	URXUSB	Antimony, urine (ng/mL)
98	L06HM_B	Heavy Metals	URXUTL	Thallium, urine (ng/mL)
99	L06HM_B	Heavy Metals	URXUTU	Tungsten, urine (ng/mL)
100	L06HM_B	Heavy Metals	URXUUR	Uranium, urine (ng/mL)
101	L06UIO_B	Urine Iodine	SEQN	Respondent sequence number
102	L06UIO_B	Urine Iodine	URXUIO	Iodine, urine (ng/mL)
103	L06UIO_B	Urine Iodine	URXUCR	Creatinine, urine (mg/dL)
104	L06UIO_B	Urine Iodine	WTUIO2YR	Iodine Subsample 2 year Mec Weight
105	L06VID_B	Vitamin D (ng/mL)	SEQN	Respondent sequence number
106	L06VID_B	Vitamin D (ng/mL)	LBXVID	Vitamin D (ng/mL)
107	L06VIT_B	Vitamins A, E, and Carotenoids	SEQN	Respondent sequence number
108	L06VIT_B	Vitamins A, E, and Carotenoids	LBXALC	a-carotene(ug/dL)
109	L06VIT_B	Vitamins A, E, and Carotenoids	LBDALCSI	a-carotene(umol/L)
110	L06VIT_B	Vitamins A, E, and Carotenoids	LBXBEC	trans-b-carotene(ug/dL)
111	L06VIT_B	Vitamins A, E, and Carotenoids	LDBECSI	trans-b-carotene(umol/L)
112	L06VIT_B	Vitamins A, E, and Carotenoids	LBXCBC	cis-b-carotene(ug/dL)
113	L06VIT_B	Vitamins A, E, and Carotenoids	LBDCBCSI	cis-b-carotene(umol/L)
114	L06VIT_B	Vitamins A, E, and Carotenoids	LBXCRY	b-cryptoxanthin(ug/dL)
115	L06VIT_B	Vitamins A, E, and Carotenoids	LBDCRYSI	b-cryptoxanthin(umol/L)
116	L06VIT_B	Vitamins A, E, and Carotenoids	LBXGTC	g-tocopherol(ug/dL)
117	L06VIT_B	Vitamins A, E, and Carotenoids	LBDGTCSI	g-tocopherol(umol/L)
118	L06VIT_B	Vitamins A, E, and Carotenoids	LBXLUZ	Combined Lutein/zeaxanthin(ug/dL)
119	L06VIT_B	Vitamins A, E, and Carotenoids	LBDLUZSI	Combined Lutein/zeaxanthin(umol/L)
120	L06VIT_B	Vitamins A, E, and Carotenoids	LBXLYC	trans-lycopene(ug/dL)
121	L06VIT_B	Vitamins A, E, and Carotenoids	LBDLYCSI	trans-lycopene(umol/L)
122	L06VIT_B	Vitamins A, E, and Carotenoids	LBXRPL	Retinyl palmitate(ug/dL)
123	L06VIT_B	Vitamins A, E, and Carotenoids	LBDRPLSI	Retinyl palmitate(umol/L)
124	L06VIT_B	Vitamins A, E, and Carotenoids	LBXRST	Retinyl stearate(ug/dL)
125	L06VIT_B	Vitamins A, E, and Carotenoids	LBDRSTSI	Retinyl stearate(umol/L)
126	L06VIT_B	Vitamins A, E, and Carotenoids	LBXVIA	Retinol(ug/dL)
127	L06VIT_B	Vitamins A, E, and Carotenoids	LBDVIASI	Retinol(umol/L)
128	L06VIT_B	Vitamins A, E, and Carotenoids	LBXVIE	a-tocopherol(ug/dL)
129	L06VIT_B	Vitamins A, E, and Carotenoids	LBDVIESI	a-tocopherol(umol/L)

Item #	File name	Component	Variable ID	Label
130	L09_B	Herpes I and II	SEQN	Respondent sequence number
131	L09_B	Herpes I and II	LBXHE1	Herpes I
132	L09_B	Herpes I and II	LBXHE2	Herpes II
133	L10_B	Glycohemoglobin	SEQN	Respondent sequence number
134	L10_B	Glycohemoglobin	LBXGH	Glycohemoglobin (%)
135	L10AM_B	Plasma Glucose	SEQN	Respondent sequence number
136	L10AM_B	Plasma Glucose	WTSFA2YR	Fasting Subsample 2 Year Mec Weight
137	L10AM_B	Plasma Glucose	WTSFA4YR	Fasting Subsample 4 Year Mec Weight
138	L10AM_B	Plasma Glucose	LBXGLU	Glucose, plasma (mg/dL)
139	L10AM_B	Plasma Glucose	LBXGLUSI	Plasma glucose: SI(mmol/L)
140	L10AM_B	Plasma Glucose	LBXCPSI	C-peptide: SI(nmol/L)
141	L10AM_B	Plasma Glucose	LBXIN	Insulin (uU/mL)
142	L10AM_B	Plasma Glucose	LBXINSI	Insulin: SI(pmol/L)
143	L11_B	C-Reactive Protein	SEQN	Respondent sequence number
144	L11_B	C-Reactive Protein	LBXCRP	C-reactive protein(mg/dL)
145	L11_B	C-Reactive Protein	LBXFB	Fibrinogen (mg/dL)
146	L11_B	C-Reactive Protein	LBDFBSI	Fibrinogen (g/L)
147	L11_B	C-Reactive Protein	LBDBAP	Bone alkaline phosphatase (ug/L)
148	L11_B	C-Reactive Protein	URDNT	N-Telopeptides (nmol BCE)
149	L11PSA_B	Prostate-specific Antigen	SEQN	Respondent sequence number
150	L11PSA_B	Prostate-specific Antigen	KIQ110	Willing to have blood tested for PSA
151	L11PSA_B	Prostate-specific Antigen	KIQ115	Infection or inflammation of prostate
152	L11PSA_B	Prostate-specific Antigen	KIQ185	Rectal exam in the last 7 days
153	L11PSA_B	Prostate-specific Antigen	KIQ190	Prostate biopsy in the last 4 weeks
154	L11PSA_B	Prostate-specific Antigen	KIQ195	Cystoscopy in the last 4 weeks
155	L11PSA_B	Prostate-specific Antigen	KIQ201	Diagnosed with prostate cancer
156	L11PSA_B	Prostate-specific Antigen	KIQ221	Age at diagnosis of prostate cancer
157	L11PSA_B	Prostate-specific Antigen	KIQ241	Ever had prostate surgery
158	L11PSA_B	Prostate-specific Antigen	KIQ281	Was surgery for prostate cancer?
159	L11PSA_B	Prostate-specific Antigen	KIQ301	Radiation treatment for prostate cancer
160	L11PSA_B	Prostate-specific Antigen	KIQ311	Taken medicines for prostate cancer
161	L11PSA_B	Prostate-specific Antigen	LBXP1	PSA, total (ng/mL)
162	L11PSA_B	Prostate-specific Antigen	LBXP2	PSA, free (ng/mL)
163	L11PSA_B	Prostate-specific Antigen	LBDP3	Prostate specific antigen ratio (%)
164	L13_B	Total Cholesterol	SEQN	Respondent sequence number
165	L13_B	Total Cholesterol	LBXTC	Total cholesterol (mg/dL)

Item #	File name	Component	Variable ID	Label
166	L13_B	Total Cholesterol	LBDHDL	HDL-cholesterol (mg/dL)
167	L13_B	Total Cholesterol	LBDTCSI	Total cholesterol (mmol/L)
168	L13_B	Total Cholesterol	LBDHLSI	HDL-cholesterol (mmol/L)
169	L13AM_B	Triglycerides	SEQN	Respondent sequence number
170	L13AM_B	Triglycerides	WTSAF2YR	2Yr AM(3-11) & fasting (12+) weights
171	L13AM_B	Triglycerides	WTSAF4YR	4Yr AM(3-11) & fasting (12+) weights
172	L13AM_B	Triglycerides	LBXTR	Triglyceride (mg/dL)
173	L13AM_B	Triglycerides	LBDTRSI	Triglyceride (mmol/L)
174	L13AM_B	Triglycerides	LBDDL	LDL-cholesterol (mg/dL)
175	L13AM_B	Triglycerides	LBDDLSSI	LDL-cholesterol (mmol/L)
176	L16_B	Urinary Albumin and Creatinine	SEQN	Respondent sequence number
177	L16_B	Urinary Albumin and Creatinine	URXUCR	Creatinine, urine (mg/dL)
178	L16_B	Urinary Albumin and Creatinine	URXUCRSI	Creatinine, urine (umol/L)
179	L16_B	Urinary Albumin and Creatinine	URXUMA	Albumin, urine (ug/mL)
180	L16_B	Urinary Albumin and Creatinine	URXUMASI	Albumin, urine (mg/L) SI
181	L17_B	Cryptosporidium and Toxoplasma	SEQN	Respondent sequence number
182	L17_B	Cryptosporidium and Toxoplasma	LBDTO1	Toxoplasma (IgG)
183	L17_B	Cryptosporidium and Toxoplasma	LBXTO2	Toxoplasma (IgM)
184	L17_B	Cryptosporidium and Toxoplasma	LBXTO3	Toxoplasma (Dye)
185	L17_B	Cryptosporidium and Toxoplasma	LBXTO4	Toxoplasma Differential Agglutination
186	L17_B	Cryptosporidium and Toxoplasma	LBXTO4IN	Toxoplasma Agglutin Interpretation
187	L17_B	Cryptosporidium and Toxoplasma	LBXTO5	Toxoplasma (Avidity) IgG
188	L17_B	Cryptosporidium and Toxoplasma	LBXTO5IN	Toxoplasma (Avidity) IgG Interpretation
189	L19_B	Measles, Rubella, and Varicella	SEQN	Respondent sequence number
190	L19_B	Measles, Rubella, and Varicella	LBXME	Measles
191	L19_B	Measles, Rubella, and Varicella	LBDRUIU	Rubella international units
192	L19_B	Measles, Rubella, and Varicella	LBXVAR	Varicella
193	L20_B	Lead Dust	SEQN	Respondent sequence number
194	L20_B	Lead Dust	DCDINDEX	Index child for sampling
195	L20_B	Lead Dust	DCDSTAT	Dust sample status
196	L20_B	Lead Dust	DCD030	Room where samples taken
197	L20_B	Lead Dust	DCD070A	Room selected was floor carpeted
198	L20_B	Lead Dust	DCQ070B	Room selected had floor mat
199	L20_B	Lead Dust	DCQ070C	Room selected had area rug
200	L20_B	Lead Dust	DCQ070D	Room selected had wall-wall carpeting
201	L20_B	Lead Dust	DCQ090	Carpet pile depth

Item #	File name	Component	Variable ID	Label
202	L20_B	Lead Dust	DCQ160	Surface condition for floor dust sample
203	L20_B	Lead Dust	DCQ240	Window sill finished
204	L20_B	Lead Dust	DCQ250	Surface condition for sill dust sample
205	L20_B	Lead Dust	DCQ400	Room cleanliness
206	L20_B	Lead Dust	DCQ410	Room clutter
207	L20_B	Lead Dust	LBXDFS	Floor, GFAAS (ug/sq.ft.)
208	L20_B	Lead Dust	LBXDFSF	Floor, FAAS (ug/sq. ft.)
209	L20_B	Lead Dust	LBDDWS	Window, FAAS (ug/sq. ft.)
210	L20_B	Lead Dust	LBDDFSLC	Lead dust floor (GFAAS) comment code
211	L20_B	Lead Dust	LBDD3LC	Lead dust floor (FAAS) comment code
212	L20_B	Lead Dust	LBDDWSLC	Lead dust window sill comment code
213	L25_B	Complete Blood Count	SEQN	Respondent sequence number
214	L25_B	Complete Blood Count	LBXWBCSI	White blood cell count (SI)
215	L25_B	Complete Blood Count	LBXLYPCT	Lymphocyte percent (%)
216	L25_B	Complete Blood Count	LBXMOPCT	Monocyte percent (%)
217	L25_B	Complete Blood Count	LBXNEPCT	Segmented neutrophils percent (%)
218	L25_B	Complete Blood Count	LBXEOPCT	Eosinophils percent (%)
219	L25_B	Complete Blood Count	LBXBAPCT	Basophils percent (%)
220	L25_B	Complete Blood Count	LBLYMNO	Lymphocyte number
221	L25_B	Complete Blood Count	LBDMONO	Monocyte number
222	L25_B	Complete Blood Count	LBDNENO	Segmented neutrophils number
223	L25_B	Complete Blood Count	LBDEONO	Eosinophils number
224	L25_B	Complete Blood Count	LBDBANO	Basophils number
225	L25_B	Complete Blood Count	LBXRBCSI	Red cell count SI
226	L25_B	Complete Blood Count	LBXHGB	Hemoglobin (g/dL)
227	L25_B	Complete Blood Count	LBXHCT	Hematocrit (%)
228	L25_B	Complete Blood Count	LBXMCVSI	Mean cell volume (fL)
229	L25_B	Complete Blood Count	LBXMCHSI	Mean cell hemoglobin (pg)
230	L25_B	Complete Blood Count	LBXMC	MCHC (g/dL)
231	L25_B	Complete Blood Count	LBXRDW	Red cell distribution width (%)
232	L25_B	Complete Blood Count	LBXPLTSI	Platelet count (%) SI
233	L25_B	Complete Blood Count	LBXMPSI	Mean platelet volume (fL)
234	L26PP_B	Pesticides	SEQN	Respondent sequence number
235	L26PP_B	Pesticides	WTSP2YR	Pesticides Subsample 2 year Mec Weight
236	L26PP_B	Pesticides	WTSP4YR	Pesticides Subsample 4 year Mec Weight

Item #	File name	Component	Variable ID	Label
237	L26PP_B	Pesticides	URXDCB	2,4-dichlorophenol (ug/L) result
238	L26PP_B	Pesticides	URDDCBLC	2,4-dichlorophenol comment code
239	L26PP_B	Pesticides	URX1TB	2,4,5-trichlorophenol (ug/L) result
240	L26PP_B	Pesticides	URD1TBLC	2,4,5-trichlorophenol comment code
241	L26PP_B	Pesticides	URX24D	2,4-D (ug/L) result
242	L26PP_B	Pesticides	URD24DLC	2,4-D comment code
243	L26PP_B	Pesticides	URX25T	2,4,5-T (ug/L) result
244	L26PP_B	Pesticides	URD25TLC	2,4,5-T comment code
245	L26PP_B	Pesticides	URX3TB	2,4,6-trichlorophenol (ug/L) result
246	L26PP_B	Pesticides	URD3TBLC	2,4,6-trichlorophenol comment code
247	L26PP_B	Pesticides	URXATZ	Atrazine mercapturate (ug/L) result
248	L26PP_B	Pesticides	URDATZLC	Atrazine mercapturate comment code
249	L26PP_B	Pesticides	URXCBF	Carbofuranphenol (ug/L) result
250	L26PP_B	Pesticides	URDCBFLC	Carbofuranphenol comment code
251	L26PP_B	Pesticides	URXDEE	DEET (ug/L)
252	L26PP_B	Pesticides	URDDEELC	DEET comment code
253	L26PP_B	Pesticides	URXCPM	3,5,6-trichloropyridinol (ug/L) result
254	L26PP_B	Pesticides	URDCPMLC	3,5,6-trichloropyridinol comment code
255	L26PP_B	Pesticides	URXDIZ	Oxypyrimidine (ug/L) result
256	L26PP_B	Pesticides	URDDIZLC	Oxypyrimidine comment code
257	L26PP_B	Pesticides	URXPAR	Paranitrophenol (ug/L) result
258	L26PP_B	Pesticides	URDPARLC	Paranitrophenol comment code
259	L26PP_B	Pesticides	URXPCP	Pentachlorophenol (ug/L) result
260	L26PP_B	Pesticides	URDPCPLC	Pentachlorophenol comment code
261	L26PP_B	Pesticides	URXPPX	2-isopropoxyphenol (ug/L) result
262	L26PP_B	Pesticides	URDPPXLC	2-isopropoxyphenol comment code
263	L26PP_B	Pesticides	URXOPP	O-Phenyl phenol (ug/L) result
264	L26PP_B	Pesticides	URDOPPLC	O-Phenyl phenol comment code
265	L26PP_B	Pesticides	URXOP1	Dimethylphosphate (ug/L) result
266	L26PP_B	Pesticides	URXOP2	Diethylphosphate (ug/L) result
267	L26PP_B	Pesticides	URXOP3	Dimethylthiophosphate (ug/L) result
268	L26PP_B	Pesticides	URXOP4	Diethylthiophosphate (ug/L) result
269	L26PP_B	Pesticides	URXOP5	Dimethyldithiophosphate (ug/L) result
270	L26PP_B	Pesticides	URXOP6	Diethyldithiophosphate (ug/L) result
271	L26PP_B	Pesticides	URX4FP	4-fluoro-3-phenoxybenzoic (ug/L) acid
272	L26PP_B	Pesticides	URD4FPLC	fluoro-phenoxybenzoic acid code

Item #	File name	Component	Variable ID	Label
273	L26PP_B	Pesticides	URXCB3	dibromovinyl-dimeth prop carboacid(ug/L)
274	L26PP_B	Pesticides	URDCB3LC	dibromovinyl-dimeth prop carboacid code
275	L26PP_B	Pesticides	URXCCC	dichlorovnl-dimeth prop carboacid (ug/L)
276	L26PP_B	Pesticides	URDCCLC	dichlorovnl-dimeth prop carboacid code
277	L26PP_B	Pesticides	URXCMH	chloro-hydro-meth-chromen-one/ol (ug/L)
278	L26PP_B	Pesticides	URDCMHL	chloro-hydro-meth-chromen-one/ol code
279	L26PP_B	Pesticides	URXDPY	diethylaminomethylpyrimidinol/one (ug/L)
280	L26PP_B	Pesticides	URDDPYLC	diethamino-methpyrimidin-ol/one code
281	L26PP_B	Pesticides	URXMET	Metolachlor mercapturate (ug/L) result
282	L26PP_B	Pesticides	URDMETLC	Metolachlor mercapturate comment code
283	L26PP_B	Pesticides	URXOPM	3-phenoxybenzoic (ug/L) acid result
284	L26PP_B	Pesticides	URDOPMLC	3-phenoxybenzoic acid comment code
285	L26PP_B	Pesticides	URXTCC	dichlorovnl-dimeth prop carboacid (ug/L)
286	L26PP_B	Pesticides	URDTCCLC	dichlorovnl-dimeth prop carboacid code
287	L26PP_B	Pesticides	URXACE	Acetochlor mercapturate (ug/L) result
288	L26PP_B	Pesticides	URDACELC	Acetochlor mercapturate comment code
289	L26PP_B	Pesticides	URXUCR	Creatinine, urine (mg/dL)
290	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	SEQN	Respondent sequence number
291	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	WTSP02YR	Dioxins Subsample 2 Year Mec Weight
292	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	WTSP04YR	Dioxins Subsample 4 Year Mec Weight
293	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX052	PCB52 (ng/g)
294	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX052LA	PCB52 Lipid Adj (ng/g)
295	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD052LC	PCB52 comment code
296	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX066	PCB66 (ng/g)
297	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX066LA	PCB66 Lipid Adj (ng/g)
298	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD066LC	PCB66 comment code

Item #	File name	Component	Variable ID	Label
299	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX074	PCB74 (ng/g)
300	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX074LA	PCB74 Lipid Adj (ng/g)
301	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD074LC	PCB74 comment code
302	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX087	PCB87 (ng/g)
303	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX087LA	PCB87 Lipid Adj (ng/g)
304	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD087LC	PCB87 comment code
305	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX099	PCB99 (ng/g)
306	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX099LA	PCB99 Lipid Adj (ng/g)
307	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD099LC	PCB99 comment code
308	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX101	PCB101 (ng/g)
309	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX101LA	PCB101 Lipid Adj (ng/g)
310	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD101LC	PCB101 comment code
311	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX105	PCB105 (ng/g)
312	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX105LA	PCB105 Lipid Adj (ng/g)
313	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD105LC	PCB105 comment code
314	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX110	PCB110 (ng/g)
315	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX110LA	PCB110 Lipid Adj (ng/g)
316	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD110LC	PCB110 comment code
317	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX118	PCB118 (ng/g)
318	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX118LA	PCB118 Lipid Adj (ng/g)

Item #	File name	Component	Variable ID	Label
319	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD118LC	PCB118 comment code
320	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX128	PCB128 (ng/g)
321	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX128LA	PCB128 Lipid Adj (ng/g)
322	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD128LC	PCB128 comment code
323	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX138	PCB138 (ng/g)
324	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX138LA	PCB138 Lipid Adj (ng/g)
325	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD138LC	PCB138 comment code
326	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX146	PCB146 (ng/g)
327	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX146LA	PCB146 Lipid Adj (ng/g)
328	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD146LC	PCB146 comment code
329	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX149	PCB149 (ng/g)
330	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX149LA	PCB149 Lipid Adj (ng/g)
331	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD149LC	PCB149 comment code
332	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX151	PCB151 (ng/g)
333	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX151LA	PCB151 Lipid Adj (ng/g)
334	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD151LC	PCB151 comment code
335	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX153	PCB153 (ng/g)
336	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX153LA	PCB153 Lipid Adj (ng/g)
337	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD153LC	PCB153 comment code
338	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX156	PCB156 (ng/g)

Item #	File name	Component	Variable ID	Label
339	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX156LA	PCB156 Lipid Adj (ng/g)
340	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD156LC	PCB156 comment code
341	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX157	PCB157 (ng/g)
342	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX157LA	PCB157 Lipid Adj (ng/g)
343	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD157LC	PCB157 comment code
344	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX167	PCB167 (ng/g)
345	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX167LA	PCB167 Lipid Adj (ng/g)
346	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD167LC	PCB167 comment code
347	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX170	PCB170 (ng/g)
348	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX170LA	PCB170 Lipid Adj (ng/g)
349	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD170LC	PCB170 comment code
350	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX172	PCB172 (ng/g)
351	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX172LA	PCB172 Lipid Adj (ng/g)
352	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD172LC	PCB172 comment code
353	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX177	PCB177 (ng/g)
354	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX177LA	PCB177 Lipid Adj (ng/g)
355	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD177LC	PCB177 comment code
356	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX178	PCB178 (ng/g)
357	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX178LA	PCB178 Lipid Adj (ng/g)
358	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD178LC	PCB178 comment code

Item #	File name	Component	Variable ID	Label
359	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX180	PCB180 (ng/g)
360	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX180LA	PCB180 Lipid Adj (ng/g)
361	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD180LC	PCB180 comment code
362	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX183	PCB183 (ng/g)
363	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX183LA	PCB183 Lipid Adj (ng/g)
364	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD183LC	PCB183 comment code
365	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX187	PCB187 (ng/g)
366	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX187LA	PCB187 Lipid Adj (ng/g)
367	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD187LC	PCB187 comment code
368	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX189	PCB189 (ng/g)
369	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX189LA	PCB189 Lipid Adj (ng/g)
370	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD189LC	PCB189 comment code
371	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX194	PCB194 (ng/g)
372	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX194LA	PCB194 Lipid Adj (ng/g)
373	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD194LC	PCB194 comment code
374	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX195	PCB195 (ng/g)
375	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX195LA	PCB195 Lipid Adj (ng/g)
376	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD195LC	PCB195 comment code
377	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX196	PCB196 (ng/g)
378	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX196LA	PCB196 Lipid Adj (ng/g)

Item #	File name	Component	Variable ID	Label
379	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD196LC	PCB196 comment code
380	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD199	PCB199 (ng/g)
381	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX199LA	PCB199 Lipid Adj (ng/g)
382	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD199LC	PCB199 comment code
383	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX206	PCB206 (ng/g)
384	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX206LA	PCB206 Lipid Adj (ng/g)
385	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD206LC	PCB206 comment code
386	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD01	1,2,3,7,8-pncdd (fg/g)
387	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD01LA	1,2,3,7,8-pncdd Lipid Adj (pg/g)
388	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD01LC	1,2,3,7,8-pncdd comment code
389	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD02	1,2,3,4,7,8-hxcdd (fg/g)
390	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD02LA	1,2,3,4,7,8-hxcdd Lipid Adj (pg/g)
391	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD02LC	1,2,3,4,7,8-hxcdd comment code
392	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD03	1,2,3,6,7,8-hxcdd (fg/g)
393	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD03LA	1,2,3,6,7,8-hxcdd Lipid Adj (pg/g)
394	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD03LC	1,2,3,6,7,8-hxcdd comment code
395	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD04	1,2,3,7,8,9-hxcdd (fg/g)
396	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD04LA	1,2,3,7,8,9-hxcdd Lipid Adj (pg/g)
397	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD04LC	1,2,3,7,8,9-hxcdd comment code
398	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD05	1,2,3,4,6,7,8-hpcdd (fg/g)

Item #	File name	Component	Variable ID	Label
399	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD05LA	1,2,3,4,6,7,8-hpcdd Lipid Adj (pg/g)
400	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD05LC	1,2,3,4,6,7,8-hpcdd comment code
401	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD07	1,2,3,4,6,7,8,9-ocdd (fg/g)
402	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD07LA	1,2,3,4,6,7,8,9-ocdd Lipid Adj (pg/g)
403	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD07LC	1,2,3,4,6,7,8,9-ocdd comment code
404	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF01	2,3,7,8-tcdf (fg/g)
405	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF01LA	2,3,7,8-tcdf Lipid Adj (pg/g)
406	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF01LC	2,3,7,8-tcdf comment code
407	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF02	1,2,3,7,8-pncdf (fg/g)
408	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF02LA	1,2,3,7,8-pncdf Lipid Adj (pg/g)
409	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF02LC	1,2,3,7,8-pncdf comment code
410	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF03	2,3,4,7,8-pncdf (fg/g)
411	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF03LA	2,3,4,7,8-pncdf Lipid Adj (pg/g)
412	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF03LC	2,3,4,7,8-pncdf comment code
413	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF04	1,2,3,4,7,8-hxcdf (fg/g)
414	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF04LA	1,2,3,4,7,8-hxcdf Lipid Adj (pg/g)
415	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF04LC	1,2,3,4,7,8-hxcdf comment code
416	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF05	1,2,3,6,7,8-hxcdf (fg/g)
417	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF05LA	1,2,3,6,7,8-hxcdf Lipid Adj (pg/g)
418	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF05LC	1,2,3,6,7,8-hxcdf comment code

Item #	File name	Component	Variable ID	Label
419	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF06	1,2,3,7,8,9-hxcdf (fg/g)
420	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF06LA	1,2,3,7,8,9-hxcdf Lipid Adj (pg/g)
421	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF06LC	1,2,3,7,8,9-hxcdf comment code
422	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF07	2,3,4,6,7,8-hxcdf (fg/g)
423	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF07LA	2,3,4,6,7,8-hxcdf Lipid Adj (pg/g)
424	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF07LC	2,3,4,6,7,8-hxcdf comment code
425	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF08	1,2,3,4,6,7,8-hpcdf (fg/g)
426	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF08LA	1,2,3,4,6,7,8-hxcdf Lipid Adj (pg/g)
427	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF08LC	1,2,3,4,6,7,8-hpcdf comment code
428	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF09	1,2,3,4,7,8,9-hpcdf (fg/g)
429	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF09LA	1,2,3,4,7,8,9-hpcdf Lipid Adj (pg/g)
430	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF09LC	1,2,3,4,7,8,9-hpcdf comment code
431	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF10	1,2,3,4,6,7,8,9-ocdf (fg/g)
432	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF10LA	1,2,3,4,6,7,8,9-ocdf Lipid Adj (pg/g)
433	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF10LC	1,2,3,4,6,7,8,9-ocdf comment code
434	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPCB	3,3',4,4',5-pncb (fg/g)
435	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPCBLA	3,3',4,4',5-pncb Lipid Adj (pg/g)
436	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDFPCBLC	3,3',4,4',5-pncb comment code
437	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTC2	3,4,4',5-tcb (fg/g)
438	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTC2LA	3,4,4',5-tcb Lipid Adj (pg/g)

Item #	File name	Component	Variable ID	Label
439	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDC2LC	3,4,4',5-tcb comment code
440	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTCD	2,3,7,8-tcdd (fg/g)
441	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTCDLA	2,3,7,8-tcdd Lipid Adj (pg/g)
442	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDTC DLC	2,3,7,8-tcdd comment code
443	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXBHC	Beta-hexachlorocyclohexane (ng/g)
444	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXBHCLA	B-hexachlorocyclohexane Lipid Adj (ng/g)
445	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDBHCLC	Beta-hexachlorocyclohexane comment code
446	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXGHC	Gamma-hexachlorocyclohexane (ng/g)
447	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXGHCLA	G-hexachlorocyclohexane Lipid Adj (ng/g)
448	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDGHCLC	Gamma-hexachlorocyclohexane comment code
449	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHCB	Hexachlorobenzene (ng/g)
450	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHCBLA	Hexachlorobenzene Lipid Adj (ng/g)
451	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHCBLC	Hexachlorobenzene comment code
452	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHPE	Heptachlor Epoxide (ng/g)
453	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHPELA	Heptachlor Epoxide Lipid Adj (ng/g)
454	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHPELC	Heptachlor Epoxide comment code
455	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHXC	3,3',4,4',5,5'-hxcb (fg/g)
456	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHXCCLA	3,3',4,4',5,5'-hxcb Lipid Adj (pg/g)
457	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHXCLC	3,3',4,4',5,5'-hxcb comment code
458	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXMIR	Mirex (ng/g)

Item #	File name	Component	Variable ID	Label
459	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXMIRLA	Mirex Lipid Adj (ng/g)
460	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDMIRLC	Mirex comment code
461	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXODT	o,p'-DDT (ng/g)
462	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXODTLA	o,p'-DDT Lipid Adj (ng/g)
463	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDODTLC	o,p'-DDT comment code
464	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXOXY	Oxychlordane (ng/g)
465	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXOXYLA	Oxychlordane Lipid Adj (ng/g)
466	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDOXYLC	Oxychlordane comment code
467	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDE	p,p'-DDE (ng/g)
468	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDELA	p,p'-DDE Lipid Adj (ng/g)
469	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDPDELC	p,p'-DDE comment code
470	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDT	p,p'-DDT (ng/g)
471	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDTLA	p,p'-DDT Lipid Adj (ng/g)
472	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDPDTLC	p,p'-DDT comment code
473	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTNA	Trans-nonachlor (ng/g)
474	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTNALA	Trans-nonachlor Lipid Adj (ng/g)
475	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDTNALC	Trans-nonachlor comment code
476	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXDIE	Dieldrin (ng/g)
477	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXDIELA	Dieldrin Lipid Adj (ng/g)
478	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDDIELC	Dieldrin comment code

Item #	File name	Component	Variable ID	Label
479	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXALD	Aldrin (ng/g)
480	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXALDLA	Aldrin Lipid Adj (ng/g)
481	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDALDLC	Aldrin comment code
482	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXEND	Endrin (ng/g)
483	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXENDLA	Endrin Lipid Adj (ng/g)
484	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDENDLC	Endrin comment code
485	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	SEQN	Respondent sequence number
486	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXBVPH	PH of Bacterial Vaginosis Specimen
487	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXTV	Trichomonas Vaginalis
488	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXBV	Bacterial Vaginosis
489	L35_B	Methicillin-Resistant Staphylococcus Aureus	SEQN	Respondent sequence number
490	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMS1	S. aureus present 1
491	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXM1	MRSA 1
492	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMT1	Tetracycline 1
493	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMZ1	Trimethoprim/Sulfamethoxazole 1
494	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMC1	Clindamycin 1
495	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXME1	Erythromycin 1
496	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMP1	Penicillin 1
497	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMI1	Imipenem 1
498	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMV1	Vancomycin 1
499	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMF1	Cefazolin 1
500	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMO1	Oxacillin 1
501	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMG1	Gentamicin 1
502	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMD1	Ciprofloxacin 1
503	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXML1	Levofloxacin 1
504	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMR1	Rifampin 1
505	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMY1	Amoxicillin/k Clavulanate 1
506	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBAMMT1	Molecular type 1
507	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMS2	S. aureus present 2
508	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMT2	Tetracycline 2
509	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMZ2	Trimethoprim/Sulfamethoxazole 2
510	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMC2	Clindamycin 2

Item #	File name	Component	Variable ID	Label
511	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXME2	Erythromycin 2
512	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMP2	Penicillin 2
513	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMI2	Imipenem 2
514	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMV2	Vancomycin 2
515	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMF2	Cefazolin 2
516	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMO2	Oxacillin 2
517	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMG2	Gentamicin 2
518	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMD2	Ciprofloxacin 2
519	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXML2	Levofloxacin 2
520	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMR2	Rifampin 2
521	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMY2	Amoxicillin/k Clavulanate 2
522	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBAMMT2	Molecular type 2
523	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETA	Enterotoxin A
524	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETB	Enterotoxin B
525	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETC	Enterotoxin C
526	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETD	Enterotoxin D
527	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETE	Enterotoxin E
528	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETH	Enterotoxin H
529	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXTSS	Toxic Shock Syndrome Toxin 1
530	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXPVL	Panton Valentine Leukocidin
531	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXSCC	SCCmec Type
532	L36_B	Syphilis	SEQN	Respondent sequence number
533	L36_B	Syphilis	LBXSY1	Syphilis IgG EIA
534	L36_B	Syphilis	LBDSY3	Syphilis RPR Titer Level
535	L36_B	Syphilis	LBDSY4	Syphilis TP-PA
536	L39_B	Erythrocyte Protoporphyrin	SEQN	Respondent sequence number
537	L39_B	Erythrocyte Protoporphyrin	LBXEPP	Protoporphyrin(ug/dL RBC)
538	L39_B	Erythrocyte Protoporphyrin	LBDEPPSI	Protoporphyrin(μmol/L RBC)
539	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	SEQN	Respondent sequence number
540	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSAL	Albumin (g/dL)
541	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSALSI	Albumin (g/L)
542	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSATSI	ALT: SI (U/L)
543	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSASSI	AST: SI (U/L)

Item #	File name	Component	Variable ID	Label
544	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSAPSI	Alkaline phosphatase (U/L)
545	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSBU	Blood urea nitrogen (mg/dL)
546	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSBUSI	Blood urea nitrogen (mmol/L)
547	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCA	Total Calcium (mg/dL)
548	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDS CASI	Total Calcium (mmol/L)
549	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCH	Cholesterol (mg/dL)
550	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSCHSI	Cholesterol (mmol/L)
551	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSC3SI	Bicarbonate: SI (mmol/L)
552	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGTSI	GGT: SI (U/L)
553	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGL	Glucose, serum (mg/dL)
554	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSGLSI	Glucose, serum (mmol/L)
555	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSIR	Iron (ug/dL)
556	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSIRSI	Iron (umol/L)
557	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSLDSI	LDH (U/L)
558	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSPH	Phosphorus (mg/dL)
559	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSPHSI	Phosphorus (mmol/L)
560	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTB	Bilirubin, total (mg/dL)
561	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTBSI	Bilirubin, total (umol/L)
562	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSTP	Total protein (g/dL)
563	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTPSI	Total protein (g/L)

Item #	File name	Component	Variable ID	Label
564	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSTR	Triglycerides (mg/dL)
565	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTRSI	Triglycerides (mmol/L)
566	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSUA	Uric acid (mg/dL)
567	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSUASI	Uric acid (umol/L)
568	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSCR	Creatinine (mg/dL)
569	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSCRSI	Creatinine (umol/L)
570	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSNASI	Sodium: SI (mmol/L)
571	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSKSI	Potassium: SI (mmol/L)
572	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCLSI	Chloride: SI (mmol/L)
573	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSOSI	Osmolality: SI (mmol/Kg)
574	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGB	Globulin (g/dL)
575	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSGBSI	Globulin (g/L)
576	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXFSH	Follicle stimulating hormone (mIU/mL)
577	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDFSHSI	Follicle stimulating hormone (IU/L)
578	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXLH	Luteinizing hormone (mIU/mL)
579	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDLHSI	Luteinizing hormone (IU/L)
580	L40FE_B	Iron and TIBC	SEQN	Respondent sequence number
581	L40FE_B	Iron and TIBC	LBXIRN	Iron, frozen (ug/dL)
582	L40FE_B	Iron and TIBC	LBDIRNSI	Iron, frozen (umol/L)
583	L40FE_B	Iron and TIBC	LBDTIB	Total iron binding capacity (ug/dL)
584	L40FE_B	Iron and TIBC	LBDTIBSI	Total iron binding capacity (umol/L)
585	L40FE_B	Iron and TIBC	LBDPCT	Transferrin saturation (%)
586	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	SEQN	Respondent sequence number

Item #	File name	Component	Variable ID	Label
587	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	WTSTH2YR	Thyroid hormones Subsample 2 yr Mec Wgt
588	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	WTSTH4YR	Thyroid hormones Subsample 4 yr Mec Wgt
589	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXT4	Thyroxine (T4) (ug/dL)
590	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXT4SI	Thyroxine (T4) (nmol/L)
591	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXTSH	Thyroid stim hormone (TSH) (IU/L)
592	PH_B	Phlebotomy	SEQN	Respondent sequence number
593	PH_B	Phlebotomy	PHQ020	Coffee or tea with cream or sugar?
594	PH_B	Phlebotomy	PHACOFHR	Coffee/tea fast time (hours)
595	PH_B	Phlebotomy	PHACOFMN	Coffee/tea fast time (minutes)
596	PH_B	Phlebotomy	PHQ030	Alcohol, such as beer, wine, or liquor?
597	PH_B	Phlebotomy	PHAALCHR	Alcohol fast time (hours)
598	PH_B	Phlebotomy	PHAALCMN	Alcohol fast time (minutes)
599	PH_B	Phlebotomy	PHQ040	Gum, mints, lozenges or cough drops
600	PH_B	Phlebotomy	PHAGUMHR	Gum, mints cough drops fast time (hours)
601	PH_B	Phlebotomy	PHAGUMMN	Gum, mints, cough fast time (minutes)
602	PH_B	Phlebotomy	PHQ050	Antacids, laxatives, or anti-diarrheals?
603	PH_B	Phlebotomy	PHAANTHR	Antacids, laxatives fast time (hours)
604	PH_B	Phlebotomy	PHAANTMN	Antacids, laxatives fast time (minutes)
605	PH_B	Phlebotomy	PHQ060	Dietary supplements?
606	PH_B	Phlebotomy	PHASUPHR	Dietary supplements fast time (hours)
607	PH_B	Phlebotomy	PHASUPMN	Dietary supplements fast time (minutes)
608	PH_B	Phlebotomy	PHAFSTHR	Total length of "food fast," hours
609	PH_B	Phlebotomy	PHAFSTMN	Total length of "food fast," minutes
610	PH_B	Phlebotomy	PHDSESN	Session in which SP was examined
611	PHPYPA_B	PHPYPA Urinary Phthalates	SEQN	Respondent sequence number
612	PHPYPA_B	PHPYPA Urinary Phthalates	WTSPH2YR	Phthalate Subsample 2 year Mec Weight
613	PHPYPA_B	PHPYPA Urinary Phthalates	WTSPH4YR	Phthalate Subsample 4 year Mec Weight
614	PHPYPA_B	PHPYPA Urinary Phthalates	URXMBP	Mono-n-butyl phthalate (ng/mL)
615	PHPYPA_B	PHPYPA Urinary Phthalates	URXMCP	Mono-cyclohexyl phthalate (ng/mL)
616	PHPYPA_B	PHPYPA Urinary Phthalates	URXMCP	Mono-ethyl phthalate (ng/mL)
617	PHPYPA_B	PHPYPA Urinary Phthalates	URXMHP	Mono-(2-ethyl)-hexyl phthalate (ng/mL)
618	PHPYPA_B	PHPYPA Urinary Phthalates	URXMNP	Mono-isononyl phthalate (ng/mL)

Item #	File name	Component	Variable ID	Label
619	PHPYPA_B	PHPYPA Urinary Phthalates	URXMOP	Mono-n-octyl phthalate (ng/mL)
620	PHPYPA_B	PHPYPA Urinary Phthalates	URXMZP	Mono-benzyl phthalate (ng/mL)
621	PHPYPA_B	PHPYPA Urinary Phthalates	URXMNM	Mono-n-methyl phthalate
622	PHPYPA_B	PHPYPA Urinary Phthalates	URXMC1	Mono-(3-carboxypropyl) phthalate
623	PHPYPA_B	PHPYPA Urinary Phthalates	URXMHH	Mono-(2-ethyl-5-hydroxyhexyl) phthalate
624	PHPYPA_B	PHPYPA Urinary Phthalates	URXMOH	Mono-(2-ethyl-5-oxohexyl) phthalate
625	PHPYPA_B	PHPYPA Urinary Phthalates	URXMIB	Mono-isobutyl phthalate
626	PHPYPA_B	PHPYPA Urinary Phthalates	URXDAZ	Daidzein (ng/mL)
627	PHPYPA_B	PHPYPA Urinary Phthalates	URXDMA	o-Desmethylangolensin (O-DMA) (ng/mL)
628	PHPYPA_B	PHPYPA Urinary Phthalates	URXEQU	Equol (ng/mL)
629	PHPYPA_B	PHPYPA Urinary Phthalates	URXETD	Enterodiol (ng/mL)
630	PHPYPA_B	PHPYPA Urinary Phthalates	URXETL	Enterolactone (ng/mL)
631	PHPYPA_B	PHPYPA Urinary Phthalates	URXGNS	Genistein (ng/mL)
632	PHPYPA_B	PHPYPA Urinary Phthalates	URXP01	1-naphthol
633	PHPYPA_B	PHPYPA Urinary Phthalates	URXP02	2-naphthol
634	PHPYPA_B	PHPYPA Urinary Phthalates	URXP03	3-fluorene (ng/L)
635	PHPYPA_B	PHPYPA Urinary Phthalates	URXP04	2-fluorene (ng/L)
636	PHPYPA_B	PHPYPA Urinary Phthalates	URXP05	3-phenanthrene (ng/L)
637	PHPYPA_B	PHPYPA Urinary Phthalates	URXP06	1-phenanthrene (ng/L)
638	PHPYPA_B	PHPYPA Urinary Phthalates	URXP07	2-phenanthrene (ng/L)
639	PHPYPA_B	PHPYPA Urinary Phthalates	URXP08	1-benzo[c] phenanthrene (ng/L)
640	PHPYPA_B	PHPYPA Urinary Phthalates	URXP09	3-fluoranthene (ng/L)
641	PHPYPA_B	PHPYPA Urinary Phthalates	URXP10	1-pyrene (ng/L)
642	PHPYPA_B	PHPYPA Urinary Phthalates	URXP11	2-benzo[c] phenanthrene (ng/L)
643	PHPYPA_B	PHPYPA Urinary Phthalates	URXP12	1-benzo[a] anthracene (ng/L)
644	PHPYPA_B	PHPYPA Urinary Phthalates	URXP13	6-chrysene (ng/L)
645	PHPYPA_B	PHPYPA Urinary Phthalates	URXP14	3-benzo[c] phenanthrene (ng/L)
646	PHPYPA_B	PHPYPA Urinary Phthalates	URXP15	3-chrysene (ng/L)
647	PHPYPA_B	PHPYPA Urinary Phthalates	URXP16	3-benz[a] anthracene (ng/L)
648	PHPYPA_B	PHPYPA Urinary Phthalates	URXP17	9-fluorene
649	PHPYPA_B	PHPYPA Urinary Phthalates	URXP18	9-phenanthrene
650	PHPYPA_B	PHPYPA Urinary Phthalates	URXP19	4-phenanthrene
651	PHPYPA_B	PHPYPA Urinary Phthalates	URXP20	1-chrysene
652	PHPYPA_B	PHPYPA Urinary Phthalates	URXP21	2-chrysene
653	PHPYPA_B	PHPYPA Urinary Phthalates	URXP22	4-chrysene

Item #	File name	Component	Variable ID	Label
654	PHPYPA_B	PHPYPA Urinary Phthalates	URXP24	3-benzo(a) pyrene
655	PHPYPA_B	PHPYPA Urinary Phthalates	URXUCR	Creatinine, urine (mg/dL)
656	UC_B	Urine Collection (Pregnancy)	SEQN	Respondent sequence number

Item #	File name	Component	Variable ID	Label
657	UC_B	Urine Collection (Pregnancy)	URXPREG	Pregnancy test result

**NHANES 2001-2002 Lab Data Items
March 2009**

Table B: List of variables sorted alphabetically by "Label"

Item #	File name	Component	Variable ID	Label
1	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD07	1,2,3,4,6,7,8,9-ocdd (fg/g)
2	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD07LC	1,2,3,4,6,7,8,9-ocdd comment code
3	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD07LA	1,2,3,4,6,7,8,9-ocdd Lipid Adj (pg/g)
4	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF10	1,2,3,4,6,7,8,9-ocdf (fg/g)
5	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF10LC	1,2,3,4,6,7,8,9-ocdf comment code
6	L28POC_B	Co-Planar PCBs	LBXF10LA	1,2,3,4,6,7,8,9-ocdf Lipid Adj (pg/g)
7	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD05	1,2,3,4,6,7,8-hpcdd (fg/g)
8	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD05LC	1,2,3,4,6,7,8-hpcdd comment code
9	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD05LA	1,2,3,4,6,7,8-hpcdd Lipid Adj (pg/g)
10	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF08	1,2,3,4,6,7,8-hpcdf (fg/g)
11	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF08LC	1,2,3,4,6,7,8-hpcdf comment code
12	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF08LA	1,2,3,4,6,7,8-hxcdf Lipid Adj (pg/g)
13	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF09	1,2,3,4,7,8,9-hpcdf (fg/g)
14	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF09LC	1,2,3,4,7,8,9-hpcdf comment code
15	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF09LA	1,2,3,4,7,8,9-hpcdf Lipid Adj (pg/g)
16	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF04	1,2,3,4,7,8-hxcdf (fg/g)

Item #	File name	Component	Variable ID	Label
17	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF04LC	1,2,3,4,7,8-hxcdf comment code
18	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD02	1,2,3,4,7,8-hxcdd (fg/g)
19	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD02LC	1,2,3,4,7,8-hxcdd comment code
20	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD02LA	1,2,3,4,7,8-hxcdd Lipid Adj (pg/g)
21	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF04LA	1,2,3,4,7,8-hxcdf Lipid Adj (pg/g)
22	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD03	1,2,3,6,7,8-hxcdd (fg/g)
23	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD03LC	1,2,3,6,7,8-hxcdd comment code
24	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD03LA	1,2,3,6,7,8-hxcdd Lipid Adj (pg/g)
25	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF05	1,2,3,6,7,8-hxcdf (fg/g)
26	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF05LC	1,2,3,6,7,8-hxcdf comment code
27	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF05LA	1,2,3,6,7,8-hxcdf Lipid Adj (pg/g)
28	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD04	1,2,3,7,8,9-hxcdd (fg/g)
29	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD04LC	1,2,3,7,8,9-hxcdd comment code
30	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD04LA	1,2,3,7,8,9-hxcdd Lipid Adj (pg/g)
31	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF06	1,2,3,7,8,9-hxcdf (fg/g)
32	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF06LC	1,2,3,7,8,9-hxcdf comment code
33	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF06LA	1,2,3,7,8,9-hxcdf Lipid Adj (pg/g)
34	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD01	1,2,3,7,8-pncdd (fg/g)
35	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDD01LC	1,2,3,7,8-pncdd comment code
36	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXD01LA	1,2,3,7,8-pncdd Lipid Adj (pg/g)

Item #	File name	Component	Variable ID	Label
37	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF02	1,2,3,7,8-pncdf (fg/g)
38	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF02LC	1,2,3,7,8-pncdf comment code
39	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF02LA	1,2,3,7,8-pncdf Lipid Adj (pg/g)
40	PHPYPA_B	PHPYPA Urinary Phthalates	URXP12	1-benzo[a] anthracene (ng/L)
41	PHPYPA_B	PHPYPA Urinary Phthalates	URXP08	1-benzo[c] phenanthrene (ng/L)
42	PHPYPA_B	PHPYPA Urinary Phthalates	URXP20	1-chrysene
43	PHPYPA_B	PHPYPA Urinary Phthalates	URXP01	1-napthol
44	PHPYPA_B	PHPYPA Urinary Phthalates	URXP06	1-phenanthrene (ng/L)
45	PHPYPA_B	PHPYPA Urinary Phthalates	URXP10	1-pyrene (ng/L)
46	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF07	2,3,4,6,7,8-hxcdf (fg/g)
47	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF07LC	2,3,4,6,7,8-hxcdf comment code
48	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF07LA	2,3,4,6,7,8-hxcdf Lipid Adj (pg/g)
49	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF03	2,3,4,7,8-pncdf (fg/g)
50	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF03LC	2,3,4,7,8-pncdf comment code
51	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF03LA	2,3,4,7,8-pncdf Lipid Adj (pg/g)
52	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTCD	2,3,7,8-tcdd (fg/g)
53	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBTDCLC	2,3,7,8-tcdd comment code
54	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTCDLA	2,3,7,8-tcdd Lipid Adj (pg/g)
55	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF01	2,3,7,8-tcdf (fg/g)
56	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDF01LC	2,3,7,8-tcdf comment code
57	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXF01LA	2,3,7,8-tcdf Lipid Adj (pg/g)
58	L26PP_B	Pesticides	URX25T	2,4,5-T (ug/L) result
59	L26PP_B	Pesticides	URD25TLC	2,4,5-T comment code
60	L26PP_B	Pesticides	URX1TB	2,4,5-trichlorophenol (ug/L) result
61	L26PP_B	Pesticides	URD1TBLC	2,4,5-trichlorophenol comment code

Item #	File name	Component	Variable ID	Label
62	L26PP_B	Pesticides	URX3TB	2,4,6-trichlorophenol (ug/L) result
63	L26PP_B	Pesticides	URD3TBLC	2,4,6-trichlorophenol comment code
64	L26PP_B	Pesticides	URX24D	2,4-D (ug/L) result
65	L26PP_B	Pesticides	URD24DLC	2,4-D comment code
66	L26PP_B	Pesticides	URXDCB	2,4-dichlorophenol (ug/L) result
67	L26PP_B	Pesticides	URDDCBLC	2,4-dichlorophenol comment code
68	PHPYPA_B	PHPYPA Urinary Phthalates	URXP11	2-benzo[c] phenanthrene (ng/L)
69	PHPYPA_B	PHPYPA Urinary Phthalates	URXP21	2-chrysene
70	PHPYPA_B	PHPYPA Urinary Phthalates	URXP04	2-fluorene (ng/L)
71	L26PP_B	Pesticides	URXPPX	2-isopropoxyphenol (ug/L) result
72	L26PP_B	Pesticides	URDPPXLC	2-isopropoxyphenol comment code
73	PHPYPA_B	PHPYPA Urinary Phthalates	URXP02	2-naphthol
74	PHPYPA_B	PHPYPA Urinary Phthalates	URXP07	2-phenanthrene (ng/L)
75	L13AM_B	Triglycerides	WTSAF2YR	2Yr AM(3-11) & fasting (12+) weights
76	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHXC	3,3',4,4',5,5'-hxcb (fg/g)
77	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHXCLC	3,3',4,4',5,5'-hxcb comment code
78	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHCLA	3,3',4,4',5,5'-hxcb Lipid Adj (pg/g)
79	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPCBLA	3,3',4,4',5-pcnb Lipid Adj (pg/g)
80	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPCB	3,3',4,4',5-pcnb (fg/g)
81	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDPCBLC	3,3',4,4',5-pcnb comment code
82	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTC2	3,4,4',5-tcb (fg/g)
83	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTC2LC	3,4,4',5-tcb comment code
84	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTC2LA	3,4,4',5-tcb Lipid Adj (pg/g)
85	L26PP_B	Pesticides	URXCPM	3,5,6-trichloropyridinol (ug/L) result
86	L26PP_B	Pesticides	URDCPMLC	3,5,6-trichloropyridinol comment code
87	PHPYPA_B	PHPYPA Urinary Phthalates	URXP16	3-benz[a] anthracene (ng/L)
88	PHPYPA_B	PHPYPA Urinary Phthalates	URXP24	3-benzo(a) pyrene
89	PHPYPA_B	PHPYPA Urinary Phthalates	URXP14	3-benzo[c] phenanthrene (ng/L)
90	PHPYPA_B	PHPYPA Urinary Phthalates	URXP15	3-chrysene (ng/L)

Item #	File name	Component	Variable ID	Label
91	PHPYPA_B	PHPYPA Urinary Phthalates	URXP09	3-fluoranthene (ng/L)
92	PHPYPA_B	PHPYPA Urinary Phthalates	URXP03	3-fluorene (ng/L)
93	PHPYPA_B	PHPYPA Urinary Phthalates	URXP05	3-phenanthrene (ng/L)
94	L26PP_B	Pesticides	URXOPM	3-phenoxybenzoic (ug/L) acid result
95	L26PP_B	Pesticides	URDOPMLC	3-phenoxybenzoic acid comment code
96	PHPYPA_B	PHPYPA Urinary Phthalates	URXP22	4-chrysene
97	L26PP_B	Pesticides	URX4FP	4-fluoro-3-phenoxybenzoic (ug/L) acid
98	PHPYPA_B	PHPYPA Urinary Phthalates	URXP19	4-phenanthrene
99	L13AM_B	Triglycerides	WTSAF4YR	4Yr AM(3-11) & fasting (12+) weights
100	PHPYPA_B	PHPYPA Urinary Phthalates	URXP13	6-chrysene (ng/L)
101	PHPYPA_B	PHPYPA Urinary Phthalates	URXP17	9-fluorene
102	PHPYPA_B	PHPYPA Urinary Phthalates	URXP18	9-phenanthrene
103	L06VIT_B	Vitamins A, E, and Carotenoids	LBXALC	a-carotene(ug/dL)
104	L06VIT_B	Vitamins A, E, and Carotenoids	LBDALCSI	a-carotene(umol/L)
105	L06VIT_B	Vitamins A, E, and Carotenoids	LBXVIE	a-tocopherol(ug/dL)
106	L06VIT_B	Vitamins A, E, and Carotenoids	LBDVIESI	a-tocopherol(umol/L)
107	L26PP_B	Pesticides	URXACE	Acetochlor mercapturate (ug/L) result
108	L26PP_B	Pesticides	URDACELC	Acetochlor mercapturate comment code
109	L11PSA_B	Prostate-specific Antigen	KIQ221	Age at diagnosis of prostate cancer
110	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSAL	Albumin (g/dL)
111	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSALSI	Albumin (g/L)
112	L16_B	Urinary Albumin and Creatinine	URXUMASI	Albumin, urine (mg/L) SI
113	L16_B	Urinary Albumin and Creatinine	URXUMA	Albumin, urine (ug/mL)
114	PH_B	Phlebotomy	PHAALCHR	Alcohol fast time (hours)
115	PH_B	Phlebotomy	PHAALCMN	Alcohol fast time (minutes)
116	PH_B	Phlebotomy	PHQ030	Alcohol, such as beer, wine, or liquor?
117	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXALD	Aldrin (ng/g)
118	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDALDLC	Aldrin comment code
119	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXALDLA	Aldrin Lipid Adj (ng/g)
120	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSAPSI	Alkaline phosphatase (U/L)
121	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSATSI	ALT: SI (U/L)

Item #	File name	Component	Variable ID	Label
122	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMY1	Amoxicillin/k Clavulanate 1
123	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMY2	Amoxicillin/k Clavulanate 2
124	PH_B	Phlebotomy	PHAANTHR	Antacids, laxatives fast time (hours)
125	PH_B	Phlebotomy	PHAANTMN	Antacids, laxatives fast time (minutes)
126	PH_B	Phlebotomy	PHQ050	Antacids, laxatives, or anti-diarrheals?
127	L06HM_B	Heavy Metals	URXUSB	Antimony, urine (ng/mL)
128	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSASSI	AST: SI (U/L)
129	L26PP_B	Pesticides	URXATZ	Atrazine mercapturate (ug/L) result
130	L26PP_B	Pesticides	URDATZLC	Atrazine mercapturate comment code
131	L06VIT_B	Vitamins A, E, and Carotenoids	LBXCRY	b-cryptoxanthin(ug/dL)
132	L06VIT_B	Vitamins A, E, and Carotenoids	LBDCRYSI	b-cryptoxanthin(umol/L)
133	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXBHCLA	B-hexachlorocyclohexane Lipid Adj (ng/g)
134	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXBV	Bacterial Vaginosis
135	L06HM_B	Heavy Metals	URXUBA	Barium, urine (ng/mL)
136	L25_B	Complete Blood Count	LBDBANO	Basophils number
137	L25_B	Complete Blood Count	LBXBAPCT	Basophils percent (%)
138	L06HM_B	Heavy Metals	URXUBE	Beryllium, urine (ng/mL)
139	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXBHC	Beta-hexachlorocyclohexane (ng/g)
140	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDBHCLC	Beta-hexachlorocyclohexane comment code
141	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSC3SI	Bicarbonate: SI (mmol/L)
142	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTB	Bilirubin, total (mg/dL)
143	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTBSI	Bilirubin, total (umol/L)
144	L04VOC_B	Volatile Organic Compounds	LBXVDB	Blood 1,4-Dichlorobenzene (ng/mL)
145	L04VOC_B	Volatile Organic Compounds	LBDVDBLC	Blood 1,4-Dichlorobenzene Comment Code
146	L04VOC_B	Volatile Organic Compounds	LBXVBZ	Blood Benzene (ng/mL)
147	L04VOC_B	Volatile Organic Compounds	LBDVBZLC	Blood Benzene Comment Code
148	L04VOC_B	Volatile Organic Compounds	LBXVBM	Blood Bromodichloromethane (pg/mL)
149	L04VOC_B	Volatile Organic Compounds	LBDVBMLC	Blood Bromodichloromethane Comment Code
150	L04VOC_B	Volatile Organic Compounds	LBXVBF	Blood Bromoform (pg/mL)

Item #	File name	Component	Variable ID	Label
151	L04VOC_B	Volatile Organic Compounds	LBDVBFLC	Blood Bromoform Comment Code
152	L04VOC_B	Volatile Organic Compounds	LBXVCT	Blood Carbon Tetrachloride (ng/mL)
153	L04VOC_B	Volatile Organic Compounds	LBDVCTLC	Blood Carbon Tetrachloride Comment Code
154	L04VOC_B	Volatile Organic Compounds	LBXVCF	Blood Chloroform (pg/mL)
155	L04VOC_B	Volatile Organic Compounds	LBDVCFLC	Blood Chloroform Comment Code
156	L04VOC_B	Volatile Organic Compounds	LBXVCM	Blood Dibromochloromethane (pg/mL)
157	L04VOC_B	Volatile Organic Compounds	LBDVCMLC	Blood Dibromochloromethane Comment Code
158	L04VOC_B	Volatile Organic Compounds	LBXVEB	Blood Ethylbenzene (ng/mL)
159	L04VOC_B	Volatile Organic Compounds	LBDVEBLC	Blood Ethylbenzene Comment Code
160	L04VOC_B	Volatile Organic Compounds	LBXVXY	Blood m-/p-Xylene (ng/mL)
161	L04VOC_B	Volatile Organic Compounds	LBDVXYLC	Blood m-/p-Xylene Comment Code
162	L04VOC_B	Volatile Organic Compounds	LBXVME	Blood MTBE (pg/mL)
163	L04VOC_B	Volatile Organic Compounds	LBDVMELC	Blood MTBE Comment Code
164	L04VOC_B	Volatile Organic Compounds	LBXVOX	Blood o-Xylene (ng/mL)
165	L04VOC_B	Volatile Organic Compounds	LBDVOXLC	Blood o-Xylene Comment Code
166	L04VOC_B	Volatile Organic Compounds	LBXVST	Blood Styrene (ng/mL)
167	L04VOC_B	Volatile Organic Compounds	LBDVSTLC	Blood Styrene Comment Code
168	L04VOC_B	Volatile Organic Compounds	LBXV4C	Blood Tetrachloroethene (ng/mL)
169	L04VOC_B	Volatile Organic Compounds	LBDV4CLC	Blood Tetrachloroethene Comment Code
170	L04VOC_B	Volatile Organic Compounds	LBXVTO	Blood Toluene (ng/mL)
171	L04VOC_B	Volatile Organic Compounds	LBDVTOLC	Blood Toluene Comment Code
172	L04VOC_B	Volatile Organic Compounds	LBXVTC	Blood Trichloroethene (ng/mL)
173	L04VOC_B	Volatile Organic Compounds	LBDVTCLC	Blood Trichloroethene Comment Code
174	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSBU	Blood urea nitrogen (mg/dL)
175	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSBUSI	Blood urea nitrogen (mmol/L)
176	L11_B	C-Reactive Protein	LBDBAP	Bone alkaline phosphatase (ug/L)
177	L10AM_B	Plasma Glucose	LBXCPSI	C-peptide: SI(nmol/L)
178	L11_B	C-Reactive Protein	LBXCRP	C-reactive protein(mg/dL)
179	L06_B	Nutritional Biochemistries	LBDBCDSI	Cadmium (nmol/L)
180	L06_B	Nutritional Biochemistries	LBXBCD	Cadmium (ug/L)
181	L06HM_B	Heavy Metals	URDUCD	Cadmium, urine (ng/mL)
182	L26PP_B	Pesticides	URXCBF	Carbofuranphenol (ug/L) result
183	L26PP_B	Pesticides	URDCBFLC	Carbofuranphenol comment code

Item #	File name	Component	Variable ID	Label
184	L20_B	Lead Dust	DCQ090	Carpet pile depth
185	L03_B	Human Immunodeficiency Virus	LBXCD4	CD4 counts (cells/mm3)
186	L03_B	Human Immunodeficiency Virus	LBXCD8	CD8 counts (cells/mm3)
187	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMF1	Cefazolin 1
188	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMF2	Cefazolin 2
189	L06HM_B	Heavy Metals	URXUCS	Cesium, urine (ng/mL)
190	L05_B	Chlamydia and Gonorrhea	URXUCL	Chlamydia, urine
191	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCLSI	Chloride: SI (mmol/L)
192	L26PP_B	Pesticides	URXCMH	chloro-hydro-meth-chromen-one/ol (ug/L)
193	L26PP_B	Pesticides	URDCMHLC	chloro-hydro-meth-chromen-one/ol code
194	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCH	Cholesterol (mg/dL)
195	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSCHSI	Cholesterol (mmol/L)
196	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMD1	Ciprofloxacin 1
197	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMD2	Ciprofloxacin 2
198	L06VIT_B	Vitamins A, E, and Carotenoids	LBXCBC	cis-b-carotene(ug/dL)
199	L06VIT_B	Vitamins A, E, and Carotenoids	LBDCBCSI	cis-b-carotene(umol/L)
200	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMC1	Clindamycin 1
201	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMC2	Clindamycin 2
202	L06HM_B	Heavy Metals	URXUCO	Cobalt, urine (ng/mL)
203	PH_B	Phlebotomy	PHQ020	Coffee or tea with cream or sugar?
204	PH_B	Phlebotomy	PHACOFHR	Coffee/tea fast time (hours)
205	PH_B	Phlebotomy	PHACOFMN	Coffee/tea fast time (minutes)
206	L06VIT_B	Vitamins A, E, and Carotenoids	LBXLUZ	Combined Lutein/zeaxanthin(ug/dL)
207	L06VIT_B	Vitamins A, E, and Carotenoids	LBDLUZSI	Combined Lutein/zeaxanthin(umol/L)
208	L06_B	Nutritional Biochemistries	LBXCOT	Cotinine (ng/mL)
209	L06_B	Nutritional Biochemistries	LBDCOTLC	Cotinine comment code
210	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSR	Creatinine (mg/dL)
211	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSRCSI	Creatinine (umol/L)
212	L06HM_B	Heavy Metals	URXUCR	Creatinine, urine (mg/dL)
213	L06UIO_B	Urine Iodine	URXUCR	Creatinine, urine (mg/dL)
214	L16_B	Urinary Albumin and Creatinine	URXUCR	Creatinine, urine (mg/dL)
215	L26PP_B	Pesticides	URXUCR	Creatinine, urine (mg/dL)

Item #	File name	Component	Variable ID	Label
216	PHPYPA_B	PHPYPA Urinary Phthalates	URXUCR	Creatinine, urine (mg/dL)
217	L16_B	Urinary Albumin and Creatinine	URXUCRSI	Creatinine, urine (umol/L)
218	L11PSA_B	Prostate-specific Antigen	KIQ195	Cystoscopy in the last 4 weeks
219	PHPYPA_B	PHPYPA Urinary Phthalates	URXDAZ	Daidzein (ng/mL)
220	L26PP_B	Pesticides	URXDEE	DEET (ug/L)
221	L26PP_B	Pesticides	URDDEELC	DEET comment code
222	L11PSA_B	Prostate-specific Antigen	KIQ201	Diagnosed with prostate cancer
223	L26PP_B	Pesticides	URDCB3LC	dibromovinyl-dimeth prop carboacid code
224	L26PP_B	Pesticides	URXCB3	dibromovinyl-dimeth prop carboacid(ug/L)
225	L26PP_B	Pesticides	URXCCC	dichlorovnl-dimeth prop carboacid (ug/L)
226	L26PP_B	Pesticides	URXTCC	dichlorovnl-dimeth prop carboacid (ug/L)
227	L26PP_B	Pesticides	URDCCCLC	dichlorovnl-dimeth prop carboacid code
228	L26PP_B	Pesticides	URDTCCLC	dichlorovnl-dimeth prop carboacid code
229	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXDIE	Dieldrin (ng/g)
230	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDDIELC	Dieldrin comment code
231	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXDIELA	Dieldrin Lipid Adj (ng/g)
232	PH_B	Phlebotomy	PHASUPHR	Dietary supplements fast time (hours)
233	PH_B	Phlebotomy	PHASUPMN	Dietary supplements fast time (minutes)
234	PH_B	Phlebotomy	PHQ060	Dietary supplements?
235	L26PP_B	Pesticides	URDDPYLC	diethamino-methpyrimidin-ol/one code
236	L26PP_B	Pesticides	URXDPY	diethylaminomethylpyrimidinol/one (ug/L)
237	L26PP_B	Pesticides	URXOP6	Diethylthiophosphate (ug/L) result
238	L26PP_B	Pesticides	URXOP2	Diethylphosphate (ug/L) result
239	L26PP_B	Pesticides	URXOP4	Diethylthiophosphate (ug/L) result
240	L26PP_B	Pesticides	URXOP5	Dimethylthiophosphate (ug/L) result
241	L26PP_B	Pesticides	URXOP1	Dimethylphosphate (ug/L) result
242	L26PP_B	Pesticides	URXOP3	Dimethylthiophosphate (ug/L) result
243	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	WTSP02YR	Dioxins Subsample 2 Year Mec Weight
244	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	WTSP04YR	Dioxins Subsample 4 Year Mec Weight
245	L20_B	Lead Dust	DCDSTAT	Dust sample status

Item #	File name	Component	Variable ID	Label
246	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXEND	Endrin (ng/g)
247	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDENDLC	Endrin comment code
248	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXENDLA	Endrin Lipid Adj (ng/g)
249	PHPYPA_B	PHPYPA Urinary Phthalates	URXETD	Enterodiol (ng/mL)
250	PHPYPA_B	PHPYPA Urinary Phthalates	URXETL	Enterolactone (ng/mL)
251	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETA	Enterotoxin A
252	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETB	Enterotoxin B
253	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETC	Enterotoxin C
254	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETD	Enterotoxin D
255	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETE	Enterotoxin E
256	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXETH	Enterotoxin H
257	L25_B	Complete Blood Count	LBDEONO	Eosinophils number
258	L25_B	Complete Blood Count	LBXEOPCT	Eosinophils percent (%)
259	PHPYPA_B	PHPYPA Urinary Phthalates	URXEQU	Equol (ng/mL)
260	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXME1	Erythromycin 1
261	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXME2	Erythromycin 2
262	L11PSA_B	Prostate-specific Antigen	KIQ241	Ever had prostate surgery
263	L10AM_B	Plasma Glucose	WTSFA2YR	Fasting Subsample 2 Year Mec Weight
264	L10AM_B	Plasma Glucose	WTSFA4YR	Fasting Subsample 4 Year Mec Weight
265	L06_B	Nutritional Biochemistries	LBXFER	Ferritin (ng/mL)
266	L06_B	Nutritional Biochemistries	LBDFERSI	Ferritin (ug/L)
267	L11_B	C-Reactive Protein	LBDFBSI	Fibrinogen (g/L)
268	L11_B	C-Reactive Protein	LBXFB	Fibrinogen (mg/dL)
269	L20_B	Lead Dust	LBXDFSF	Floor, FAAS (ug/sq. ft.)
270	L20_B	Lead Dust	LBXDFS	Floor, GFAAS (ug/sq.ft.)
271	L26PP_B	Pesticides	URD4FPLC	fluoro-phenoxybenzoic acid code
272	L06_B	Nutritional Biochemistries	LBXRBF	Folate, RBC (ng/mL RBC)
273	L06_B	Nutritional Biochemistries	LBDRBFSI	Folate, RBC (nmol/L RBC)
274	L06_B	Nutritional Biochemistries	LBXFOL	Folate, serum (ng/mL)
275	L06_B	Nutritional Biochemistries	LBDFOLSI	Folate, serum (nmol/L)
276	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDFSHSI	Follicle stimulating hormone (IU/L)
277	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXFSH	Follicle stimulating hormone (mIU/mL)

Item #	File name	Component	Variable ID	Label
278	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXGHCLA	G-hexachlorocyclohexane Lipid Adj (ng/g)
279	L06VIT_B	Vitamins A, E, and Carotenoids	LBXGTC	g-tocopherol(ug/dL)
280	L06VIT_B	Vitamins A, E, and Carotenoids	LBDGTCSI	g-tocopherol(umol/L)
281	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXGHC	Gamma-hexachlorocyclohexane (ng/g)
282	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDGHCLC	Gamma-hexachlorocyclohexane comment code
283	PHPYPA_B	PHPYPA Urinary Phthalates	URXGNS	Genistein (ng/mL)
284	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMG1	Gentamicin 1
285	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMG2	Gentamicin 2
286	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGTSI	GGT: SI (U/L)
287	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGB	Globulin (g/dL)
288	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSGBSI	Globulin (g/L)
289	L10AM_B	Plasma Glucose	LBXGLU	Glucose, plasma (mg/dL)
290	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSGL	Glucose, serum (mg/dL)
291	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSGLSI	Glucose, serum (mmol/L)
292	L10_B	Glycohemoglobin	LBXGH	Glycohemoglobin (%)
293	L05_B	Chlamydia and Gonorrhea	URXUGC	Gonorrhea, urine
294	PH_B	Phlebotomy	PHAGUMHR	Gum, mints cough drops fast time (hours)
295	PH_B	Phlebotomy	PHAGUMMN	Gum, mints, cough fast time (minutes)
296	PH_B	Phlebotomy	PHQ040	Gum, mints, lozenges or cough drops
297	L13_B	Total Cholesterol	LBDHDL	HDL-cholesterol (mg/dL)
298	L13_B	Total Cholesterol	LBDHDLSI	HDL-cholesterol (mmol/L)
299	L06HM_B	Heavy Metals	WTSHM2YR	Heavy Metal Subsample 2 Year Mec Weight
300	L06HM_B	Heavy Metals	WTSHM4YR	Heavy Metal Subsample 4 Year Mec Weight
301	L25_B	Complete Blood Count	LBXHCT	Hematocrit (%)
302	L25_B	Complete Blood Count	LBXHGB	Hemoglobin (g/dL)
303	L02_B	Hepatitis A, B, C and D	LBXHA	Hepatitis A antibody
304	L02HPA_B	Hepatitis A	LBXHA	Hepatitis A Antibody (Anti-HAV)
305	L02_B	Hepatitis A, B, C and D	LBXHBC	Hepatitis B core antibody

Item #	File name	Component	Variable ID	Label
306	L02_B	Hepatitis A, B, C and D	LBXHBS	Hepatitis B surface antibody
307	L02HBS_B	Hepatitis B Surface Antibody	LBXHBS	Hepatitis B Surface Antibody
308	L02_B	Hepatitis A, B, C and D	LBDHBG	Hepatitis B surface antigen
309	L02_B	Hepatitis A, B, C and D	LBDHCV	Hepatitis C antibody (confirmed)
310	L02_B	Hepatitis A, B, C and D	LBDHD	Hepatitis D (anti-HDV)
311	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHPE	Heptachlor Epoxide (ng/g)
312	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHPELC	Heptachlor Epoxide comment code
313	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHPELA	Heptachlor Epoxide Lipid Adj (ng/g)
314	L09_B	Herpes I and II	LBXHE1	Herpes I
315	L09_B	Herpes I and II	LBXHE2	Herpes II
316	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHCB	Hexachlorobenzene (ng/g)
317	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDHCBLC	Hexachlorobenzene comment code
318	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXHCBLA	Hexachlorobenzene Lipid Adj (ng/g)
319	L03_B	Human Immunodeficiency Virus	LBDHI	HIV antibody test result
320	L06_B	Nutritional Biochemistries	LBDHCY	Homocysteine (umol/L)
321	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMI1	Imipenem 1
322	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMI2	Imipenem 2
323	L20_B	Lead Dust	DCDINDEX	Index child for sampling
324	L11PSA_B	Prostate-specific Antigen	KIQ115	Infection or inflammation of prostate
325	L10AM_B	Plasma Glucose	LBXIN	Insulin (uU/mL)
326	L10AM_B	Plasma Glucose	LBXINSI	Insulin: SI(pmol/L)
327	L06UIO_B	Urine Iodine	WTUIO2YR	Iodine Subsample 2 year Mec Weight
328	L06UIO_B	Urine Iodine	URXUIO	Iodine, urine (ng/mL)
329	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSIR	Iron (ug/dL)
330	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSIRSI	Iron (umol/L)
331	L40FE_B	Iron and TIBC	LBXIRN	Iron, frozen (ug/dL)
332	L40FE_B	Iron and TIBC	LBDIRNSI	Iron, frozen (umol/L)
333	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSLDSI	LDH (U/L)
334	L13AM_B	Triglycerides	LBDLDL	LDL-cholesterol (mg/dL)

Item #	File name	Component	Variable ID	Label
335	L13AM_B	Triglycerides	LBDLDSI	LDL-cholesterol (mmol/L)
336	L06_B	Nutritional Biochemistries	LBXBPB	Lead (ug/dL)
337	L06_B	Nutritional Biochemistries	LBDBPBSI	Lead (umol/L)
338	L20_B	Lead Dust	LBDD3LC	Lead dust floor (FAAS) comment code
339	L20_B	Lead Dust	LBDDFSLC	Lead dust floor (GFAAS) comment code
340	L20_B	Lead Dust	LBDDWSLC	Lead dust window sill comment code
341	L06HM_B	Heavy Metals	URXUPB	Lead, urine (ng/mL)
342	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXML1	Levofloxacin 1
343	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXML2	Levofloxacin 2
344	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDLHSI	Luteinizing hormone (IU/L)
345	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXLH	Luteinizing hormone (mIU/mL)
346	L25_B	Complete Blood Count	LBDLYMNO	Lymphocyte number
347	L25_B	Complete Blood Count	LBLYPCT	Lymphocyte percent (%)
348	L25_B	Complete Blood Count	LBXMC	MCHC (g/dL)
349	L25_B	Complete Blood Count	LBXMCHSI	Mean cell hemoglobin (pg)
350	L25_B	Complete Blood Count	LBXMCVSI	Mean cell volume (fL)
351	L25_B	Complete Blood Count	LBXMPSI	Mean platelet volume (fL)
352	L19_B	Measles, Rubella, and Varicella	LBXME	Measles
353	L06_B	Nutritional Biochemistries	LBXIHG	Mercury, inorganic (ug/L)
354	L06_B	Nutritional Biochemistries	LBDIHGSI	Mercury, inorganic (umol/L)
355	L06_B	Nutritional Biochemistries	LBXTHG	Mercury, total (ug/L)
356	L06_B	Nutritional Biochemistries	LBDTHGSI	Mercury, total (umol/L)
357	L06_B	Nutritional Biochemistries	URXUHG	Mercury, urine (ng/mL)
358	L06_B	Nutritional Biochemistries	LBXMMA	Methylmalonic acid (umol/L)
359	L26PP_B	Pesticides	URXMET	Metolachlor mercapturate (ug/L) result
360	L26PP_B	Pesticides	URDMETLC	Metolachlor mercapturate comment code
361	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXMIR	Mirex (ng/g)
362	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDMIRLC	Mirex comment code
363	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXMIRLA	Mirex Lipid Adj (ng/g)
364	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBAMMT1	Molecular type 1
365	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBAMMT2	Molecular type 2
366	L06HM_B	Heavy Metals	URXUMO	Molybdenum, urine (ng/mL)
367	PHPYPA_B	PHPYPA Urinary Phthalates	URXMHP	Mono-(2-ethyl)-hexyl phthalate (ng/mL)

Item #	File name	Component	Variable ID	Label
368	PHPYPA_B	PHPYPA Urinary Phthalates	URXMHH	Mono-(2-ethyl-5-hydroxyhexyl) phthalate
369	PHPYPA_B	PHPYPA Urinary Phthalates	URXMOH	Mono-(2-ethyl-5-oxohexyl) phthalate
370	PHPYPA_B	PHPYPA Urinary Phthalates	URXMC1	Mono-(3-carboxypropyl) phthalate
371	PHPYPA_B	PHPYPA Urinary Phthalates	URXMZP	Mono-benzyl phthalate (ng/mL)
372	PHPYPA_B	PHPYPA Urinary Phthalates	URXMCP	Mono-cyclohexyl phthalate (ng/mL)
373	PHPYPA_B	PHPYPA Urinary Phthalates	URXMEP	Mono-ethyl phthalate (ng/mL)
374	PHPYPA_B	PHPYPA Urinary Phthalates	URXMIB	Mono-isobutyl phthalate
375	PHPYPA_B	PHPYPA Urinary Phthalates	URXMNP	Mono-isononyl phthalate (ng/mL)
376	PHPYPA_B	PHPYPA Urinary Phthalates	URXMBP	Mono-n-butyl phthalate (ng/mL)
377	PHPYPA_B	PHPYPA Urinary Phthalates	URXMNM	Mono-n-methyl phthalate
378	PHPYPA_B	PHPYPA Urinary Phthalates	URXMOP	Mono-n-octyl phthalate (ng/mL)
379	L25_B	Complete Blood Count	LBDMONO	Monocyte number
380	L25_B	Complete Blood Count	LBXMOPCT	Monocyte percent (%)
381	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXM1	MRSA 1
382	L11_B	C-Reactive Protein	URDNT	N-Telopeptides (nmol BCE)
383	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXODT	o,p'-DDT (ng/g)
384	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDODTLC	o,p'-DDT comment code
385	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXODTLA	o,p'-DDT Lipid Adj (ng/g)
386	PHPYPA_B	PHPYPA Urinary Phthalates	URXDMA	o-Desmethylangolensin (O-DMA) (ng/mL)
387	L26PP_B	Pesticides	URXOPP	O-Phenyl phenol (ug/L) result
388	L26PP_B	Pesticides	URDOPPLC	O-Phenyl phenol comment code
389	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSOSI	Osmolality: SI (mmol/Kg)
390	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMO1	Oxacillin 1
391	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMO2	Oxacillin 2
392	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXOXY	Oxychlorane (ng/g)
393	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDOXYLC	Oxychlorane comment code
394	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXOXYLA	Oxychlorane Lipid Adj (ng/g)
395	L26PP_B	Pesticides	URXDIZ	Oxypyrimidine (ug/L) result
396	L26PP_B	Pesticides	URDDIZLC	Oxypyrimidine comment code

Item #	File name	Component	Variable ID	Label
397	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDE	p,p'-DDE (ng/g)
398	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDPDELC	p,p'-DDE comment code
399	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDELA	p,p'-DDE Lipid Adj (ng/g)
400	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDT	p,p'-DDT (ng/g)
401	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBDPDTLC	p,p'-DDT comment code
402	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXPDTLA	p,p'-DDT Lipid Adj (ng/g)
403	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXPVL	Panton Valentine Leukocidin
404	L26PP_B	Pesticides	URXPAR	Paranitrophenol (ug/L) result
405	L26PP_B	Pesticides	URDPARLC	Paranitrophenol comment code
406	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX101	PCB101 (ng/g)
407	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD101LC	PCB101 comment code
408	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX101LA	PCB101 Lipid Adj (ng/g)
409	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX105	PCB105 (ng/g)
410	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD105LC	PCB105 comment code
411	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX105LA	PCB105 Lipid Adj (ng/g)
412	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX110	PCB110 (ng/g)
413	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD110LC	PCB110 comment code
414	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX110LA	PCB110 Lipid Adj (ng/g)
415	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX118	PCB118 (ng/g)
416	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD118LC	PCB118 comment code
417	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX118LA	PCB118 Lipid Adj (ng/g)
418	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX128	PCB128 (ng/g)

Item #	File name	Component	Variable ID	Label
419	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD128LC	PCB128 comment code
420	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX128LA	PCB128 Lipid Adj (ng/g)
421	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX138	PCB138 (ng/g)
422	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD138LC	PCB138 comment code
423	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX138LA	PCB138 Lipid Adj (ng/g)
424	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX146	PCB146 (ng/g)
425	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD146LC	PCB146 comment code
426	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX146LA	PCB146 Lipid Adj (ng/g)
427	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX149	PCB149 (ng/g)
428	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD149LC	PCB149 comment code
429	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX149LA	PCB149 Lipid Adj (ng/g)
430	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX151	PCB151 (ng/g)
431	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD151LC	PCB151 comment code
432	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX151LA	PCB151 Lipid Adj (ng/g)
433	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX153	PCB153 (ng/g)
434	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD153LC	PCB153 comment code
435	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX153LA	PCB153 Lipid Adj (ng/g)
436	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX156	PCB156 (ng/g)
437	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD156LC	PCB156 comment code
438	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX156LA	PCB156 Lipid Adj (ng/g)

Item #	File name	Component	Variable ID	Label
439	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX157	PCB157 (ng/g)
440	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD157LC	PCB157 comment code
441	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX157LA	PCB157 Lipid Adj (ng/g)
442	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX167	PCB167 (ng/g)
443	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD167LC	PCB167 comment code
444	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX167LA	PCB167 Lipid Adj (ng/g)
445	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX170	PCB170 (ng/g)
446	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD170LC	PCB170 comment code
447	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX170LA	PCB170 Lipid Adj (ng/g)
448	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX172	PCB172 (ng/g)
449	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD172LC	PCB172 comment code
450	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX172LA	PCB172 Lipid Adj (ng/g)
451	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX177	PCB177 (ng/g)
452	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD177LC	PCB177 comment code
453	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX177LA	PCB177 Lipid Adj (ng/g)
454	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX178	PCB178 (ng/g)
455	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD178LC	PCB178 comment code
456	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX178LA	PCB178 Lipid Adj (ng/g)
457	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX180	PCB180 (ng/g)
458	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD180LC	PCB180 comment code

Item #	File name	Component	Variable ID	Label
459	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX180LA	PCB180 Lipid Adj (ng/g)
460	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX183	PCB183 (ng/g)
461	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD183LC	PCB183 comment code
462	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX183LA	PCB183 Lipid Adj (ng/g)
463	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX187	PCB187 (ng/g)
464	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD187LC	PCB187 comment code
465	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX187LA	PCB187 Lipid Adj (ng/g)
466	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX189	PCB189 (ng/g)
467	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD189LC	PCB189 comment code
468	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX189LA	PCB189 Lipid Adj (ng/g)
469	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX194	PCB194 (ng/g)
470	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD194LC	PCB194 comment code
471	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX194LA	PCB194 Lipid Adj (ng/g)
472	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX195	PCB195 (ng/g)
473	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD195LC	PCB195 comment code
474	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX195LA	PCB195 Lipid Adj (ng/g)
475	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX196	PCB196 (ng/g)
476	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD196LC	PCB196 comment code
477	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX196LA	PCB196 Lipid Adj (ng/g)
478	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD199	PCB199 (ng/g)

Item #	File name	Component	Variable ID	Label
479	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD199LC	PCB199 comment code
480	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX199LA	PCB199 Lipid Adj (ng/g)
481	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX206	PCB206 (ng/g)
482	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD206LC	PCB206 comment code
483	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX206LA	PCB206 Lipid Adj (ng/g)
484	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX052	PCB52 (ng/g)
485	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD052LC	PCB52 comment code
486	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX052LA	PCB52 Lipid Adj (ng/g)
487	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX066	PCB66 (ng/g)
488	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD066LC	PCB66 comment code
489	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX066LA	PCB66 Lipid Adj (ng/g)
490	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX074	PCB74 (ng/g)
491	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD074LC	PCB74 comment code
492	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX074LA	PCB74 Lipid Adj (ng/g)
493	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX087	PCB87 (ng/g)
494	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD087LC	PCB87 comment code
495	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX087LA	PCB87 Lipid Adj (ng/g)
496	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX099	PCB99 (ng/g)
497	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBD099LC	PCB99 comment code
498	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBX099LA	PCB99 Lipid Adj (ng/g)
499	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMP1	Penicillin 1

Item #	File name	Component	Variable ID	Label
500	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMP2	Penicillin 2
501	L26PP_B	Pesticides	URXPCP	Pentachlorophenol (ug/L) result
502	L26PP_B	Pesticides	URDPCPLC	Pentachlorophenol comment code
503	L26PP_B	Pesticides	WTSP2YR	Pesticides Subsample 2 year Mec Weight
504	L26PP_B	Pesticides	WTSP4YR	Pesticides Subsample 4 year Mec Weight
505	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXBVPH	PH of Bacterial Vaginosis Specimen
506	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSPH	Phosphorus (mg/dL)
507	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSPHSI	Phosphorus (mmol/L)
508	PHPYPA_B	PHPYPA Urinary Phthalates	WTSPH2YR	Phthalate Subsample 2 year Mec Weight
509	PHPYPA_B	PHPYPA Urinary Phthalates	WTSPH4YR	Phthalate Subsample 4 year Mec Weight
510	L10AM_B	Plasma Glucose	LBXGLUSI	Plasma glucose: SI(mmol/L)
511	L25_B	Complete Blood Count	LBXPLTSI	Platelet count (%) SI
512	L06HM_B	Heavy Metals	URXUPT	Platinum, urine (ng/mL)
513	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSKSI	Potassium: SI (mmol/L)
514	UC_B	Urine Collection (Pregnancy)	URXPREG	Pregnancy test result
515	L11PSA_B	Prostate-specific Antigen	KIQ190	Prostate biopsy in the last 4 weeks
516	L11PSA_B	Prostate-specific Antigen	LBDP3	Prostate specific antigen ratio (%)
517	L39_B	Erythrocyte Protoporphyrin	LBDEPPSI	Protoporphyrin(μmol/L RBC)
518	L39_B	Erythrocyte Protoporphyrin	LBXEPP	Protoporphyrin(ug/dL RBC)
519	L11PSA_B	Prostate-specific Antigen	LBXP2	PSA, free (ng/mL)
520	L11PSA_B	Prostate-specific Antigen	LBXP1	PSA, total (ng/mL)
521	L11PSA_B	Prostate-specific Antigen	KIQ301	Radiation treatment for prostate cancer
522	L11PSA_B	Prostate-specific Antigen	KIQ185	Rectal exam in the last 7 days
523	L25_B	Complete Blood Count	LBXRBCSI	Red cell count SI
524	L25_B	Complete Blood Count	LBXRDW	Red cell distribution width (%)
525	L02_B	Hepatitis A, B, C and D	SEQN	Respondent sequence number
526	L02HBS_B	Hepatitis B Surface Antibody	SEQN	Respondent sequence number
527	L02HPA_B	Hepatitis A	SEQN	Respondent sequence number
528	L03_B	Human Immunodeficiency Virus	SEQN	Respondent sequence number
529	L04VOC_B	Volatile Organic Compounds	SEQN	Respondent sequence number
530	L05_B	Chlamydia and Gonorrhea	SEQN	Respondent sequence number
531	L06_B	Nutritional Biochemistries	SEQN	Respondent sequence number
532	L06HM_B	Heavy Metals	SEQN	Respondent sequence number

Item #	File name	Component	Variable ID	Label
533	L06UIO_B	Urine Iodine	SEQN	Respondent sequence number
534	L06VID_B	Vitamin D (ng/mL)	SEQN	Respondent sequence number
535	L06VIT_B	Vitamins A, E, and Carotenoids	SEQN	Respondent sequence number
536	L09_B	Herpes I and II	SEQN	Respondent sequence number
537	L10_B	Glycohemoglobin	SEQN	Respondent sequence number
538	L10AM_B	Plasma Glucose	SEQN	Respondent sequence number
539	L11_B	C-Reactive Protein	SEQN	Respondent sequence number
540	L11PSA_B	Prostate-specific Antigen	SEQN	Respondent sequence number
541	L13_B	Total Cholesterol	SEQN	Respondent sequence number
542	L13AM_B	Triglycerides	SEQN	Respondent sequence number
543	L16_B	Urinary Albumin and Creatinine	SEQN	Respondent sequence number
544	L17_B	Cryptosporidium and Toxoplasma	SEQN	Respondent sequence number
545	L19_B	Measles, Rubella, and Varicella	SEQN	Respondent sequence number
546	L20_B	Lead Dust	SEQN	Respondent sequence number
547	L25_B	Complete Blood Count	SEQN	Respondent sequence number
548	L26PP_B	Pesticides	SEQN	Respondent sequence number
549	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	SEQN	Respondent sequence number
550	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	SEQN	Respondent sequence number
551	L35_B	Methicillin-Resistant Staphylococcus Aureus	SEQN	Respondent sequence number
552	L36_B	Syphilis	SEQN	Respondent sequence number
553	L39_B	Erythrocyte Protoporphyrin	SEQN	Respondent sequence number
554	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	SEQN	Respondent sequence number
555	L40FE_B	Iron and TIBC	SEQN	Respondent sequence number
556	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	SEQN	Respondent sequence number
557	PH_B	Phlebotomy	SEQN	Respondent sequence number
558	PHPYPA_B	PHPYPA Urinary Phthalates	SEQN	Respondent sequence number
559	UC_B	Urine Collection (Pregnancy)	SEQN	Respondent sequence number
560	L06VIT_B	Vitamins A, E, and Carotenoids	LBXVIA	Retinol(ug/dL)
561	L06VIT_B	Vitamins A, E, and Carotenoids	LBDVIASI	Retinol(umol/L)
562	L06VIT_B	Vitamins A, E, and Carotenoids	LBXRPL	Retinyl palmitate(ug/dL)
563	L06VIT_B	Vitamins A, E, and Carotenoids	LBDRPLSI	Retinyl palmitate(umol/L)
564	L06VIT_B	Vitamins A, E, and Carotenoids	LBXRST	Retinyl stearate(ug/dL)
565	L06VIT_B	Vitamins A, E, and Carotenoids	LBDRSTSI	Retinyl stearate(umol/L)
566	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMR1	Rifampin 1

Item #	File name	Component	Variable ID	Label
567	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMR2	Rifampin 2
568	L20_B	Lead Dust	DCQ400	Room cleanliness
569	L20_B	Lead Dust	DCQ410	Room clutter
570	L20_B	Lead Dust	DCQ070C	Room selected had area rug
571	L20_B	Lead Dust	DCQ070B	Room selected had floor mat
572	L20_B	Lead Dust	DCQ070D	Room selected had wall-wall carpeting
573	L20_B	Lead Dust	DCD070A	Room selected was floor carpeted
574	L20_B	Lead Dust	DCD030	Room where samples taken
575	L19_B	Measles, Rubella, and Varicella	LBDRUIU	Rubella international units
576	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMS1	S. aureus present 1
577	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMS2	S. aureus present 2
578	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXSCC	SCCmec Type
579	L25_B	Complete Blood Count	LBDNENO	Segmented neutrophils number
580	L25_B	Complete Blood Count	LBXNEPCT	Segmented neutrophils percent (%)
581	PH_B	Phlebotomy	PHDSESN	Session in which SP was examined
582	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSNASI	Sodium: SI (mmol/L)
583	L20_B	Lead Dust	DCQ160	Surface condition for floor dust sample
584	L20_B	Lead Dust	DCQ250	Surface condition for sill dust sample
585	L36_B	Syphilis	LBXSY1	Syphilis IgG EIA
586	L36_B	Syphilis	LBDSY3	Syphilis RPR Titer Level
587	L36_B	Syphilis	LBDSY4	Syphilis TP-PA
588	L11PSA_B	Prostate-specific Antigen	KIQ311	Taken medicines for prostate cancer
589	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMT1	Tetracycline 1
590	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMT2	Tetracycline 2
591	L06HM_B	Heavy Metals	URXUTL	Thallium, urine (ng/mL)
592	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	WTSTH2YR	Thyroid hormones Subsample 2 yr Mec Wgt
593	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	WTSTH4YR	Thyroid hormones Subsample 4 yr Mec Wgt
594	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXTSH	Thyroid stim hormone (TSH) (IU/L)
595	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBTD4SI	Thyroxine (T4) (nmol/L)
596	L40T4_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXT4	Thyroxine (T4) (ug/dL)
597	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSCA	Total Calcium (mg/dL)

Item #	File name	Component	Variable ID	Label
598	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDESCASI	Total Calcium (mmol/L)
599	L13_B	Total Cholesterol	LBXTC	Total cholesterol (mg/dL)
600	L13_B	Total Cholesterol	LBDTCSI	Total cholesterol (mmol/L)
601	L40FE_B	Iron and TIBC	LBDTIB	Total iron binding capacity (ug/dL)
602	L40FE_B	Iron and TIBC	LBDTIBSI	Total iron binding capacity (umol/L)
603	PH_B	Phlebotomy	PHAFSTHR	Total length of "food fast," hours
604	PH_B	Phlebotomy	PHAFSTMN	Total length of "food fast," minutes
605	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSTP	Total protein (g/dL)
606	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTPSI	Total protein (g/L)
607	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXTSS	Toxic Shock Syndrome Toxin 1
608	L17_B	Cryptosporidium and Toxoplasma	LBXTO5	Toxoplasma (Avidity) IgG
609	L17_B	Cryptosporidium and Toxoplasma	LBXTO5IN	Toxoplasma (Avidity) IgG Interpretation
610	L17_B	Cryptosporidium and Toxoplasma	LBXTO3	Toxoplasma (Dye)
611	L17_B	Cryptosporidium and Toxoplasma	LBDTO1	Toxoplasma (IgG)
612	L17_B	Cryptosporidium and Toxoplasma	LBXTO2	Toxoplasma (IgM)
613	L17_B	Cryptosporidium and Toxoplasma	LBXTO4IN	Toxoplasma Agglutinin Interpretation
614	L17_B	Cryptosporidium and Toxoplasma	LBXTO4	Toxoplasma Differential Agglutination
615	L06VIT_B	Vitamins A, E, and Carotenoids	LBXBEC	trans-b-carotene(ug/dL)
616	L06VIT_B	Vitamins A, E, and Carotenoids	LBDBECSE	trans-b-carotene(umol/L)
617	L06VIT_B	Vitamins A, E, and Carotenoids	LBXLYC	trans-lycopene(ug/dL)
618	L06VIT_B	Vitamins A, E, and Carotenoids	LBDLYCSI	trans-lycopene(umol/L)
619	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTNA	Trans-nonachlor (ng/g)
620	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTNALC	Trans-nonachlor comment code
621	L28POC_B	Dioxins and Other Persistent Organochlorines, Furans, and Co-Planar PCBs	LBXTNALA	Trans-nonachlor Lipid Adj (ng/g)
622	L40FE_B	Iron and TIBC	LBDPCT	Transferrin saturation (%)
623	L34_B	Trichomonas Vaginalis/Bacterial Vaginosis	LBXTV	Trichomonas Vaginalis
624	L13AM_B	Triglycerides	LBXTR	Triglyceride (mg/dL)
625	L13AM_B	Triglycerides	LBDTRSI	Triglyceride (mmol/L)
626	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSTR	Triglycerides (mg/dL)
627	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSTRSI	Triglycerides (mmol/L)

Item #	File name	Component	Variable ID	Label
628	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMZ1	Trimethoprim/Sulfamethoxazole 1
629	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMZ2	Trimethoprim/Sulfamethoxazole 2
630	L06HM_B	Heavy Metals	URXUTU	Tungsten, urine (ng/mL)
631	L06HM_B	Heavy Metals	URXUUR	Uranium, urine (ng/mL)
632	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBXSUA	Uric acid (mg/dL)
633	L40_B	Biochemistry Profile, Follicle Stimulating Hormone and Luteinizing Hormone	LBDSUASI	Uric acid (umol/L)
634	L06HM_B	Heavy Metals	URDUCDLC	Urinary cadmium comment code
635	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMV1	Vancomycin 1
636	L35_B	Methicillin-Resistant Staphylococcus Aureus	LBXMV2	Vancomycin 2
637	L19_B	Measles, Rubella, and Varicella	LBXVAR	Varicella
638	L06_B	Nutritional Biochemistries	LBXB12	Vitamin B12, serum (pg/mL)
639	L06_B	Nutritional Biochemistries	LBDB12SI	Vitamin B12, serum (pmol/L)
640	L06VID_B	Vitamin D (ng/mL)	LBXVID	Vitamin D (ng/mL)
641	L04VOC_B	Volatile Organic Compounds	WTSVOC2Y	VOC subsample 2 yr MEC Weight
642	L04VOC_B	Volatile Organic Compounds	WTSVOC4Y	VOC subsample 4 yr MEC Weight
643	L11PSA_B	Prostate-specific Antigen	KIQ281	Was surgery for prostate cancer?
644	L04VOC_B	Volatile Organic Compounds	LBXWBM	Water Bromodichloromethane (ng/mL)
645	L04VOC_B	Volatile Organic Compounds	LBDWBMLC	Water Bromodichloromethane Comment Code
646	L04VOC_B	Volatile Organic Compounds	LBXWBF	Water Bromoform (ng/mL)
647	L04VOC_B	Volatile Organic Compounds	LBDWBFLC	Water Bromoform Comment Code
648	L04VOC_B	Volatile Organic Compounds	LBXWCF	Water Chloroform (ng/mL)
649	L04VOC_B	Volatile Organic Compounds	LBDWCFLC	Water Chloroform Comment Code
650	L04VOC_B	Volatile Organic Compounds	LBXWCM	Water Dibromochloromethane (ng/mL)
651	L04VOC_B	Volatile Organic Compounds	LBDWCMLC	Water Dibromochloromethane Comment Code
652	L04VOC_B	Volatile Organic Compounds	LBXWME	Water MTBE (ng/mL)
653	L04VOC_B	Volatile Organic Compounds	LBDWMELC	Water MTBE Comment Code
654	L25_B	Complete Blood Count	LBXWBCSI	White blood cell count (SI)
655	L11PSA_B	Prostate-specific Antigen	KIQ110	Willing to have blood tested for PSA
656	L20_B	Lead Dust	DCQ240	Window sill finished
657	L20_B	Lead Dust	LBDDWS	Window, FAAS (ug/sq. ft.)