

**NCS Summary of the Current Protocol for Study Visits Assessments (Pre-pregnancy - Birth):  
Original Vanguard Centers**

		Pre-Pregnancy	Pregnancy				Birth	
		P1 (Home)	T1 (Home)	T1 - Prior (Home)	T3 - 1 <sup>st</sup> (Home)	T3 - Prior (Clinic or Home)	B1 Delivery (Hospital)	B2 Pre-discharge (Hospital)
<b>Biospecimens</b>								
<b>Mother</b>	Urine	S	S	S	S	S		
	Vaginal Swab	S	S	S	S	S		
	Blood (or BNC Saliva)	S	S	S	S	S	S	
	Hair	S			S	S		
	Saliva (2-day)		S	S	S	S		
	Toenails				S	S		
	Placenta/ Umbilical Cord						S	
	Cord Blood						S	
<b>Father</b>	Blood		S					
	Urine		S					
	Hair		S					
	Toenails		S					
<b>Child</b>	Heel Stick (Blood)							S
	Meconium							S
<b>Physical Measures</b>								
<b>Mother</b>	Anthropometric	M	M		M	M		
	Blood Pressure	M	M		M	M		
	Ultrasound		M			M		
	Chart Abstraction							M
<b>Father</b>	Anthropometric		M					
	Blood Pressure		M					
<b>Child</b>	Anthropometric							M
	Neonatal exam							M
	Chart Abstraction							M
<b>Environmental Samples</b>								
<b>Indoor Air</b>	PM 2.5 (pump)	S, PU						
	VOCs(badge) <sup>a</sup>	S, PU						
	Carbonyls (badge) <sup>a</sup>	S				S <sup>1</sup>		
	NO <sub>2</sub> (badge) <sup>a</sup>					S <sup>1</sup>		
<b>House Dust</b>	Allergens (vacuum)		S		S			
	Inorganics/ metals (wipe)		S		S			
	Inorganics (deposition plate)					S <sup>1</sup>		
	SVOCs (wipe)		S		S			
	Pesticides: Pyrethroids (wipe) <sup>a</sup>	S	S		S			
<b>Tap H<sub>2</sub>O</b>	HAA9, THMs (water)		S		S			
	VOCs (water) <sup>a</sup>		S		S			
<b>Structure Event</b>	GPS Reading	M	M		M			
	Visual Obs Form		S		S			
<b>DU Observations</b>		S	S		S			
<b>Questionnaires</b>								
<b>Mother</b>	household composition and demographics	CAPI	CAPI		CAPI	CAPI		
	chemical exposures	CAPI	CAPI		CAPI	CAPI		
	health behaviors	ACASI	ACASI		ACASI	ACASI		
	depression		CAPI					
	diet	SAQ	SAQ		SAQ			
	family process*		CAPI		CAPI	CAPI		
	time and activity		SAQ			SAQ		
	medical history*		ACASI		ACASI			
	stress		CAPI		CAPI	CAPI		
<b>Father</b>	depression		CAPI					
	IQ (KBIT-2; WJ III)		SAQ					
	medical history		ACASI					

**PU** = Pick up sample (pump and badge samples will be left in place for 6 - 7 days)

<sup>a</sup> These samples will be analyzed shortly after collection

<sup>1</sup> Depending on the Study Center these samples will be returned by the participant

\* also assessed by phone at 16-17 weeks

M - Measure

S - Biospecimen or Environmental Sample

ACASI - Audio Computer Assisted Self Interview

CAPI - Computer Assisted Personal Interview

SAQ - Self Administered Questionnaire