Table 5 Average PFOA Concentrations in the Serum (μg/mL) of Treated Animals

	0 mg/kg/day	3 mg/kg/day	10 mg/kg/day	30/20	
				mg/kg/day	
Time Point					
Day 9	0.0613 ±	126 ± 36.1	189 ± 48.9	1597 ± 2392	
	0.0472				
Week 4	0.0206 ± 0.0105	98.4 ± 42.7	172 ± 71.9	1084 ±1839	
Week 6	0.103 ± 0.0113	102 ± 33.6	95.8 ± 20.6	145 ± 21.6	
Week 8	<loq< td=""><td>94.7 ± 27.3</td><td>97.6 ± 23.5</td><td>166 ± 98.9</td></loq<>	94.7 ± 27.3	97.6 ± 23.5	166 ± 98.9	
Week 10	0.126 ± 0.0348	105 ± 37.7	93.6 ± 13.7	237 ± 158	
Week 12	0.123 ± 0.0507	79.6 ± 25.9	90.6 ± 24.5	140 ± 77.5	
Week 14	0.162 ± 0.0643	90.0 ± 28.9	92.2 ± 27.6	79.4 ± 28.3	
Week 16	0.128 ± 0.0721	68.6 ± 26.0	98.5 ± 42.3	83.9 ± 58.5	
Week 18	0.183 ± 0.0637	29.4 ± 25.4	17.4 ± 14.3	36.2 ± 21.2	
Week 20	0.224 ± 0.0730	33.0 ± 26.0	96.6 ± 26.6	97.7 ± 129	
Week 22	0.232 ± 0.131	77.6 ± 24.9	105 ± 36.3	58.6 ± 45.6	
Week 24	<loq< td=""><td>72.2 ± 68.8</td><td>90.9 ± 21.2</td><td>62.7 ± 74.3</td></loq<>	72.2 ± 68.8	90.9 ± 21.2	62.7 ± 74.3	
Week 26	0.209 ± 0.156	118 ± 27.5	77.4 ± 16.9	77.8 ± 126	
Week 26/27	0.223 ± 0.105	52.5 ± 9.14	74.1 ± 33.1	51.5 ± 77.6	
Week 28	0.181 ± 0.0391	NS	25.9 ± 7.07	NS	
Week 30	0.144 ± 0.0238	NS	11.3 ± 5.11	NS	
Week 32	0.110 ± 0.0216	NS	7.60 ± 3.90	NS	
Week 34	0.0861 ±	NS	3.97 ± 2.09	NS	
	0.0256				
Week 36	0.111 ± 0.0445	NS	2.75 ± 1.88	NS	
Week 38	0.0941 ±	NS	1.84 ± 1.40	NS	
	0.0324				
Week 40	$0.0738 \pm$	NS	1.18 ± 0.827	NS	
	0.00256				

LOQ = Limit of Quantitation; NS = No Sample; Results are expressed as group averages \pm the standard deviation associated with that group. Data are accurate to within one SD of the average fortified sample recovery. The average fortified sample recovery was 94% with an SD of 11%.

 $\label{eq:Table 6} Table \ 6$ Average PFOA Concentrations in the Liver (µg/g) of Treated Animals

	0 mg/kg/day	3 mg/kg/day	10 mg/kg/day	30/20 mg/kg/day
Time Point				
Week 20	NS	18.3	NS	NS
Week 27	0.117 ± 0.0730	15.3 ± 3.02	14.0 ± 7.55	42.8 ± 63.3
Week 40	<loq< th=""><th>NS</th><th>0.114 ± 0.0441</th><th>NS</th></loq<>	NS	0.114 ± 0.0441	NS

LOQ = Limit of Quantitation; NS = No Sample

Results are expressed as group averages \pm the standard deviation associated with that group. Data are accurate to within one SD of the average fortified sample recovery. The average fortified sample recovery was 90% with an SD of 26%.

Table 7. Average PFOA Concentrations in the Urine (µg/mL) of Treated Animals

	0 mg/kg/day	3 mg/kg/day	10 mg/kg/day	30/20
			0 0 1	mg/kg/day
Time Point				
Week 2	< LOQ	73.5 ± 38.1	221 ± 124	909 ± 269
Week 4	0.152 ± 0.337	54.9 ± 4.62	190 ± 91.6	240 ± 161
Week 6	0.0587 ±	65.7 ± 46.9	128 ± 50.0	272 ± 140
	0.0716			
Week 8	0.0161 ±	47.6 ± 20.6	206 ± 73.1	180 ± 109
	0.00940			
Week 10	0.0177 ±	39.9 ± 18.7	175 ± 92.3	359 ± 449
	0.00114			
Week 12	0.0141 ±	48.8 ± 18.8	201 ± 92.7	118 ± 111
	0.00648			
Week 14	7.96 ± 19.5	63.1 ± 47.2	139 ± 52.5	72.9 ± 84.0
Week 16	0.0299 ±	50.2 ± 21.0	139 ± 57.0	50.2 ± 67.9
	0.0339			
Week 18	$0.0256 \pm$	37.7 ± 19.3	186 ± 63.9	43.1 84.6
	0.0248			
Week 20	0.0211 ±	52.1 ± 9.63	144 ± 135	44.0 ± 59.9
	0.0130			
Week 22	0.0231 ±	95.8 ± 80.8	158 ± 78.4	98.5 ± 134
	0.00688			
Week 24	0.0125 ±	46.3 ± 8.52	157 ± 63.3	56.0 ± 77.2
	0.00749			
Week 26	$0.0268 \pm$	51.6 ± 13.7	109 ± 75.2	19.2 ± 27.0
	00.0265			
Week 28	0.118 ± 0.142	NS	0.327 ± 0.0182	NS
Week 30	<loq< th=""><th>NS</th><th>0.361 ± 0.118</th><th>NS</th></loq<>	NS	0.361 ± 0.118	NS
Week 32	<loq< th=""><th>NS</th><th>0.114 ± 0.0608</th><th>NS</th></loq<>	NS	0.114 ± 0.0608	NS
Week 34	<loq< th=""><th>NS</th><th>0.121 ± 0.0305</th><th>NS</th></loq<>	NS	0.121 ± 0.0305	NS
Week 36	0.0117 ±	NS	0.0502 ±	NS
	0.00841		0.0166	
Week 38	<loq< th=""><th>NS</th><th>0.0284 ±</th><th>NS</th></loq<>	NS	0.0284 ±	NS
			0.0102	
Week 40	<loq< th=""><th>NS</th><th>0.0254 ±</th><th>NS</th></loq<>	NS	0.0254 ±	NS
			0.0101	

LOQ = Limit of Quantitation; NS = No Sample; Results are expressed as group averages \pm the standard deviation associated with that group. Data are accurate to within one SD of the average fortified sample recovery. The average fortified sample recovery was 88% with an SD of 17%.

Table 8 Average PFOA Concentrations in the Feces ($\mu g/g$) of Treated Animals

	0 mg/kg/day	3 mg/kg/day	10 mg/kg/day	30/20		
				mg/kg/day		
Time Point	Time Point					
Week 2	<loq< th=""><th>7.43 ± 6.54</th><th>15.4 ± 10.2</th><th>56.6 ± 73.7</th></loq<>	7.43 ± 6.54	15.4 ± 10.2	56.6 ± 73.7		
Week 4	$0.0214 \pm$	10.4 ± 12.0	23.4 ± 10.6	22.0 ± 6.23		
	0.0178					
Week 6	0.108 ±	12.1 ± 14.1	23.3 ± 8.46	101 ± 86.7		
	0.00192					
Week 8	0.0782 ± 0.103	9.46 ± 9.21	41.0 ± 25.0	36.7 ± 34.2		
Week 10	<loq< th=""><th>3.96 ± 3.68</th><th>26.0 ± 17.4</th><th>48.0 ± 34.0</th></loq<>	3.96 ± 3.68	26.0 ± 17.4	48.0 ± 34.0		
Week 12	$0.0498 \pm$	7.15 ± 5.65	10.3 ± 6.07	32.0 ± 42.9		
	0.0894					
Week 14	0.139 ± 0.308	7.50 ± 2.43	27.2 ± 29.4	19.2 ± 25.2		
Week 16	$0.0572 \pm$	6.88 ± 2.62	31.4 ± 23.3	18.2 ± 28.8		
	0.0762					
Week 18	0.258 ± 0.654	5.72 ± 7.15	17.3 ± 13.3	22.1 ± 31.7		
Week 20	0.405 ± 1.08	6.81 ± 4.89	52.4 ± 39.5	37.8 ± 58.1		
Week 22	15.5 ± 36.9	13.8 ± 5.22	39.5 ± 21.0	25.2 ± 36.0		
Week 24	0.517 ± 1.13	6.22 ± 5.45	40.5 ± 21.8	34.6 ± 47.7		
Week 26	0.0172 ±	2.92 ± 1.35	43.0 ± 36.9	10.3 ± 20.8		
	0.00892					
Weeks 28-34	0.279 ± 0.732	NS	0.387 ± 0.372	NS		
Weeks 36-40	0.0103 ±	NS	0.0336 ±	NS		
	0.00684		0.0313			

LOQ = Limit of Quantitation; NS = No Sample

Results are expressed as group averages \pm the standard deviation associated with that group. Data are accurate to within one SD of the average fortified sample recovery. The average fortified sample recovery was 117% with an SD of 22%.

3.6 Developmental Toxicity Studies in Animals

Three prenatal developmental toxicity studies of APFO have been conducted, one inhalation and two oral studies.

The first of these studies was an oral developmental toxicity study in rats (Gortner, 1981). Based on the results of a range-finding study, an upper dose level of 150 mg/kg/day was set for the definitive study in which five groups of 22 time-mated Sprague-Dawley rats were administered 0, 0.05, 1.5, 5, and 150 mg/kg/day APFO in distilled water by gavage on gestation days (GD) 6-15. Doses were adjusted according to body weight. Dams were monitored on GD 3-20 for clinical signs of toxicity. Individual body weights were recorded on GD 3, 6, 9, 12, 15, and 20.