Stolthaven Flood Water Summary

Samples were collected from standing water in flooded areas surrounding the Stolthaven New Orleans, LLC (Stolthaven) facility located at 2444 English Turn Road Braithwaite, LA. The purpose of this sampling was to provide an initial assessment of potential impacts to surface water in off-site areas. Data collected from this task plan will assist in the development of offsite residential and industrial groundwater and soil sampling task plans. Chemical data from surface water in flooded areas are screened against Drinking Water Standards, Surface Water Criteria and Risk-Based Screening Levels.

Drinking Water Standards – the maximum permissible level of a chemical that may be present in a public drinking water supply and be considered allowable for household use.

Surface Water Criteria - Human health ambient water quality criteria are numeric values limiting the amount of chemicals present in our state's waters. Water quality criteria are developed by assessing the relationship between pollutants and their effect on human health and the environment. A human health criterion is the highest concentration of a pollutant in water that is not expected to pose a significant risk to human health.

Risk-Based Screening Levels – a concentration that is equivalent to an excess lifetime cancer risk of one-in-one-million (1E-06) or a noncarcinogenic hazard of 1, assuming either long-term residential use (30 years) or shorter-term dermal contact (i.e., 90 days). If an RBSL is exceeded, it is not assumed that a health risk exists; rather, that further assessment may be necessary.

1-Octene –

- 1-octene was below detection limits in all samples.

Total Petroleum Hydrocarbons (TPH) –

- Some Petroleum Hydrocarbons do exceed Drinking Water Standards, but are below Surface Water Criteria and Risk-Based Screening Levels; however, the flood water is not considered a potable water source, so these levels are not indicative of a human health concern. There is no human health risk associated with short-term exposure at the levels detected.

However, there is a microbiological concern due to the possible presence of the bacterium *E. coli* in floodwaters. These flood waters should not be ingested due to possible *E. coli* that is typically found in flood waters

Recommendation for the protection of human health – minimize contact with surface water and any oil/grease slicks encountered.

CTEH CENTER FOR TOXICOLOGY AND ENVIRONMENTAL HEALTH, LLC

Offsite and Community Surface Water Sampling Summary: September 6th, 2012 through September 12th, 2012

	Sample ID	1-Octene (µg/L)	Gasoline Range Organics (mg/L)	Diesel Range Organics (mg/L)	Oil Range Organics (mg/L)
September 6, 2012	ACE0906SW001	<5 U	<0.05 U	0.162	<0.15 U
	ACE0906SW002	<5 U	<0.05 U	0.387	0.266
	ARM0906SW001	<5 U	0.139	2.88	1.39
	ARM0906SW002	<5 U	0.0593	0.742	0.269
	ARM0906SW003	<5 U	<0.05 U	0.574	0.216
	JML0906SW001	<5 U	<0.05 U	0.659	0.175
	JML0906SW002	<5 U	<0.05 U	0.672 J	0.187 J
	JML0906SW003	<5 U	0.0699	1.33	0.208
	KLL0906SW001	<5 U	<0.05 U	<0.15 U	<0.15 U
	KLL0906SW002	<5 U	<0.05 U	<0.15 U	<0.15 U
	KLL0906SW003	<5 U	<0.05 U	<0.15 UJ	<0.15 UJ
	RRS0906SW005	<5 U	<0.05 U	0.439 J	0.32 J
	RRS0906SW006	<5 U	<0.05 U	0.537 J	0.302 J
September 7, 2012	ARM0907SW004	<5 U	0.0814	1.05	0.566
	ARM0907SW005	<5 U	<0.05 U	0.254	<0.15 U
	ARM0907SW006	<5 U	<0.05 U	0.508	0.233
	ARM0907SW007	<5 U	0.0741	0.652 J	0.206 J
	ARM0907SW008	<5 U	0.0533	0.162 J	0.236 J
	JML0907SW004	<5 U	0.0723	0.947	0.258
	JML0907SW005	<5 U	0.102	0.292 J	0.156 J
	JML0907SW006	<5 U	0.054	0.599 J	0.151 J
	JML0907SW007	<5 U	<0.05 U	0.636 J	0.278 J
	MDC0907SW001	<5 U	<0.05 U	0.221 J	0.347 J
	RRS0907SW001	<5 U	<0.05 U	0.445 J	0.202 J
	RRS0907SW002	<5 U	<0.05 U	0.544 J	0.775 J
	RRS0907SW003	<5 U	<0.05 U	0.859	0.388
	RRS0907SW004	<5 U	0.0569	1.26	0.378
September 8, 2012	ARM0908SW009	<5 U	0.0567	0.553 J	0.302 J
	ARM0908SW010	<5 U	0.356	3.29 J	0.452 J
	ARM0908SW010DUP	<5 U	0.34	6.46 J	0.29 J
	ARM0908SW011	<5 U	<0.05 U	0.281 J	0.183 J
	ARM0908SW012	<5 U	<0.05 U	<0.15 U	<0.15 U
	JML0908SW008	<5 U	0.0518	0.438 J	0.222 J
	JML0908SW009	<5 U	<0.05 U	0.183 J	0.175 J

U=Non-Detect; J=Estimated; DUP=Duplicate