

ANALYSIS RESULTS TABLE POLLUTANT GROUP 1

Please read instructions carefully before completing this form.

APPLICANT NAME	Shell Chemical Appalachia LLC									
<input checked="" type="checkbox"/> Outfall / IMP Number 005 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input type="checkbox"/> New Discharge (Basis for Information: _____)										
							Daily Flow 42,800 GPD at Outfall NS = Not Sampled			
POLLUTANT GROUP 1 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non- Detect" Results	MDL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
BOD ₅ (mg/L)	<2	0.715	<2	0.715	<2	0.715	3	3	2	Gen Chem
COD (mg/L)	<9.1	3.25	31	11.07	19.3	6.9	3	1	9.1	Gen Chem
TOC (mg/L)	1.1	0.393	1.6	0.572	1.4	0.5	3	0	0.51	Gen Chem
TSS (mg/L)	0.73	0.26	32	11.43	11.3	4.04	3	0	0.5	Gen Chem
Ammonia-Nitrogen (mg/L)	<0.088	0.031	<0.088	0.031	<0.088	0.031	3	3	0.088	Gen Chem
Temperature (Winter) (°F)	NS	XXX	NS	XXX	55	XXX	0	XXX	XXX	Est for GW.
Temperature (Summer) (°F)	NS	XXX	NS	XXX	55	XXX	0	XXX	XXX	Est. for GW
pH – Minimum (S.U.)	7.2	XXX	XXX	XXX	7.6	XXX	3	XXX	XXX	Gen Chem
pH – Maximum (S.U.)	8	XXX	XXX	XXX	7.6	XXX	3	XXX	XXX	Gen Chem
Fecal Coliform (No./100 mL)	NS	XXX	NS	XXX	NS	XXX	0	NS	XXX	NS
Oil and Grease (mg/L) (HEM)	<1.2	0.43	1.7	0.61	1.4	0.49	3	1	1.2	Gen Chem
TRC (mg/L)	0.03	XXX	0.04	XXX	0.03	XXX	3	0	Field	SM4500-CI G
Total Phosphorus (mg/L)	<0.037	0.013	<0.037	0.013	<0.037	0.013	3	3	0.037	Gen Chem
TKN (mg/L)	0.37	0.13	0.66	0.24	0.48	0.17	3	0	0.26	Gen Chem
Nitrite + Nitrate-Nitrogen (mg/L)	0.8	0.29	1.2	0.43	1.0	0.36	3	0	0.065	Gen Chem
Total Dissolved Solids (mg/L)	480	172	540	193	507	181	3	0	10	Gen Chem
Color (Pt-Co Units)	<5	XXX	5.0	XXX	5.0	XXX	3	1	5	Gen Chem
Bromide (mg/L)	<0.052	0.019	<0.052	0.019	<0.052	0.019	3	3	0.053	EPA 300.0
Chloride (mg/L)	93.9	33.55	143	51.09	116	41.45	3	0	0.32	EPA 300.0
Sulfate (mg/L)	121	43.23	167	59.67	145	51.81	3	0	0.38	EPA 300.0
Sulfide (mg/L)	<1.3	0.464	<1.3	0.464	<1.3	0.464	3	3	1.3	Gen Chem
Surfactants (mg/L)	<0.049	0.013	<0.049	0.013	<0.049	0.013	3	3	0.049	MBAS
Fluoride (mg/L)	0.18	0.06	0.22	0.08	0.2	0.07	3	0	0.0263	EPA 300.0
Total Hardness (mg/L)	300	107	300	107	300	107	3	0	0.31	SM 2340B

ANALYSIS RESULTS TABLE POLLUTANT GROUP 2

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APPLICANT NAME	Shell Chemical Appalachia LLC									
<input checked="" type="checkbox"/> Outfall / IMP Number 005 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input type="checkbox"/> New Discharge (Basis for Information: _____)										
Daily Flow 42,800 GPD at Outfall										
POLLUTANT GROUP 2 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non- Detect"	MDL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Aluminum, Total (µg/L)	<76	.027	94	0.033	82	0.029	3	2	76	EPA 200.7
Antimony, Total (µg/L)	<2.7	0.001	4.5	0.001	4.5	0.001	3	2	2.7	EPA 200.7
Arsenic, Total (µg/L)	<6.4	0.002	<6.4	0.002	<6.4	0.002	3	3	6.4	EPA 200.7
Barium, Total (µg/L)	71	0.025	86	0.031	77	0.028	3	0	3	EPA 200.7
Beryllium, Total (µg/L)	<0.35	0.0001	<0.35	0.0001	<0.35	0.0001	3	3	0.35	EPA 200.7
Boron, Total (µg/L)	190	0.067	210	0.075	203	0.073	3	0	53	EPA 200.7
Cadmium, Total (µg/L)	9.6	0.003	11	0.004	10.2	0.004	3	0	0.3	EPA 200.7
Chromium, Total (µg/L)	<0.71	0.0003	<0.71	0.0003	<0.71	0.0003	3	3	0.71	EPA 200.7
Chromium, Hexavalent (µg/L)	<3.6	0.001	<3.6	0.001	<3.6	0.001	3	3	3.6	Gen Chem
Cobalt, Total (µg/L)	<0.45	0.0002	0.54	0.0002	0.48	0.0002	3	2	0.45	EPA 200.7
Copper, Total (µg/L)	14	0.005	21	0.008	17	0.006	3	0	4.1	EPA 200.7
Cyanide, Total (µg/L)	<4.4	0.0016	<4.4	0.0016	<4.4	0.0016	3	3	4.4	EPA 200.7
Iron, Total (µg/L)	59	0.021	190	0.068	130	0.046	3	0	25	EPA 200.7
Iron, Dissolved (µg/L)	49	0.018	160	0.057	106	0.038	3	0	25	EPA 200.7
Lead, Total (µg/L)	<2.8	0.001	<2.8	0.001	<2.8	0.001	3	3	2.8	EPA 200.7
Manganese, Total (µg/L)	37	0.013	61	0.022	48	0.017	3	0	1.4	EPA 200.7
Mercury, Total (µg/L)	<0.13	0.00005	<0.13	0.00005	<0.13	0.00005	3	3	0.13	EPA 245.1
Molybdenum, Total (µg/L)	<3.3	0.001	<3.3	0.001	<3.3	0.001	3	3	3.3	EPA 200.7
Nickel, Total (µg/L)	40	0.014	68	0.024	53	0.019	3	0	1.6	EPA 200.7
Phenols, Total (µg/L)	<9.3	0.003	11	0.004	10	0.004	3	1	9.3	Gen Chem
Selenium, Total (µg/L)	4.4	0.002	5.5	0.002	4.97	0.002	3	0	4	EPA 200.7
Silver, Total (µg/L)	<0.83	0.0003	<0.83	0.0003	<0.83	0.0003	3	3	0.83	EPA 200.7
Thallium, Total (µg/L)	<3.8	0.001	<3.8	0.001	<3.8	0.001	3	3	3.8	EPA 200.7
Zinc, Total (µg/L)	1700	0.607	2500	0.893	2067	0.739	3	0	5.9	EPA 200.7