Table 2
Hess Corporation - Former Port Reading Complex (HC-PR) - 750 Cliff Road, Port Reading, New Jersey
Summary of Soil Analytical Results at AOC 100 - Laydown Yard and AOC 103 - Fire Pits/Fire Areas

Client Sample ID:		NJ Non-Residential Direct Contact Soil	NJ Residential Direct Contact Soil	NJ Default Impact to Groundwater Soil Screening	FP-SS-1 (3.5-4.0)	FP-SS-2 (4.5-5.0)	FP-SS-3 (6.5-7.0)	FP-SS-4 (3.0-3.5)	FP-SS-5 (2.5-3.0)	FP-SS-6 (4.5-5.0)	FP-SS-7 (3.0-3.5)	FP-SS-8 (3.5-4.0)	FP-SS-9 (8.0-8.5)	FP-SS-10 (4.5-5.0)	FP-SS-11 (0.5-1.0)	FP-SS-12 (1.5-2.0)	FP-SS-13 (4.0-4.5)	FP-SS-14 (2.0-2.5)
Lab Sample ID:					JB74931-1/ JB74931-1R	JB74931-2	JB74931-3 /JB74931-3R	JB74931-4/ JB74931-4R	JB74931-5	JB74931-6	JB75000-1	JB75000-2/ JB75000-2R	JB75000-3	JB75000-4 /JB75000-4R	JB77491-1/ JB77491-1R	JB77491-2	JB77491-3	JB77491-4
Date:					8/25/2014	8/25/2014	8/25/2014	8/25/2014	8/25/2014	8/25/2014	8/26/2014	8/26/2014	8/26/2014	8/26/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014
Sample Depth:					3.5-4.0	4.5-5.0	6.5-7.0	3.0-3.5	2.5-3.0	4.5-5.0	3.0-3.5	3.5-4.0	8.0-8.5	4.5-5.0	0.5-1.0	1.5-2.0	4.0-4.5	2.0-2.5
Matrix:					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
New Jersey Department of Environmental Protection Extractable Petroleum Hydrocarbons (EPH)																		
EPH (C9-C28)	mg/kg	-	-	-	1,200	44.2	2,790	2,510	963	9,470	320	914	2,440	5,770	-	-	-	-
EPH (>C28-C40)	mg/kg				459	27.1	122	65.2	48.2	82.7	19.4	30.1	770	113	-	-	-	-
Total EPH (C9-C40)	mg/kg	54,000***	5,100**	1,000*	1,660	71.3	2,910a	2,570	1,010	**9,550a**	340	944	3,210	**5,880a**	-	-	-	-
C10-C12 Aromatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
C12-C16 Aromatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	166	ND	ND	ND
C16-C21 Aromatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	662	35.6	ND	91.7
C21-C36 Aromatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	144	ND	ND	103
Total Aromatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	972	35.6	ND	195
C9-C12 Aliphatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	40.4	ND	ND	23.4
C12-C16 Aliphatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	1,150	33.1	ND	104
C16-C21 Aliphatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	2,240	73.2	ND	212
C21-C40 Aliphatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	507	18	ND	256
Total Aliphatics	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	3,930	124	ND	595
Total EPH	mg/kg	SS[1]	SS	-	-	-	-	-	-	-	-	-	-	-	4,900 [6,600]	160 [6,000]	ND	790 [5,700]
Volatile Organic Compounds																		
Acetone	mg/kg	-	70,000	19	0.0333	-	0.158	0.106	-	0.0451	-	0.0127	-	0.0598	0.0694a	-	-	-
Benzene	mg/kg	5	2	0.005	0.0011	-	ND	ND	-	ND (0.00022)	-	ND	-	ND	ND	-	-	-
2-Butanone (MEK)	mg/kg	44,000	3,100	0.9	0.0061 J	-	0.0447	0.0223	-	0.0099 J	-	ND	-	0.0099 J	0.0054 J	-	-	-
Chlorobenzene	mg/kg	7,400	510	0.6	0.0011 J	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Ethylbenzene	mg/kg	110,000	7,800	13	0.0019	-	ND	ND	-	0.00084 J	-	ND	-	ND	ND (0.00020)	-	-	-
Isopropylbenzene	mg/kg	-	-	-	ND	-	0.00026 J	ND	-	0.0029 J	-	ND	-	0.00055 J	0.00063 J	-	-	-
Methylcyclohexane	mg/kg	-	-	-	ND	-	0.0019 J	ND	-	0.0010 J	-	ND	-	0.00079 J	ND (0.00023)	-	-	-
Toluene	mg/kg	91,000	6,300	7	0.00069 J	-	ND	ND	-	0.00031 J	-	ND	-	0.00041 J	ND (0.00024)	-	-	-
m,p-Xylene	mg/kg	170,000	12,000	19	0.0033	-	0.00099 J	ND	-	0.0011 J	-	ND	-	0.0012 J	ND (0.00043)	-	-	-
o-Xylene	mg/kg	170,000	12,000	19	0.0068	-	0.00082 J	0.00026 J	-	0.0012	-	ND	-	0.0018	0.00026 J	-	-	-
Xylene (total)	mg/kg	170,000	12,000	19	0.0101	-	0.0018	0.00061 J	-	0.0022	-	0.00031 J	-	0.003	0.00026 J	-	-	-
Total TIC, Volatile	mg/kg	-	-	-	0.0586 J	-	0.789 J	0.365 J	-	11.1 J	-	0.0306 J	-	0.247 J	0.833 J	-	-	-
Total Alkanes	mg/kg	-	-	-	0	-	1.053 J	0.352 J	-	0	-	0	-	0.022 J	0.6 J	-	-	-
Semi-Volatile Organic Compounds																		
Acenaphthene	mg/kg	37,000	3,400	110	0.0721	-	ND	ND	-	1.04	-	ND	-	ND	ND	-	-	-
Acenaphthylene	mg/kg	300,000	-	-	0.092	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Anthracene	mg/kg	30,000	17,000	2,400	0.354	-	0.0485	ND	-	ND	-	ND	-	ND	ND	-	-	-
Benzo(a)anthracene	mg/kg	2	0.6	0.8	**0.817**	-	0.0286 J	ND	-	ND	-	ND	-	0.0456	0.0622 J	-	-	-
Benzo(a)pyrene	mg/kg	0.2	0.2	0.2	**0.823**	-	ND	ND	-	ND	-	ND	-	0.0409 J	0.0527 J	-	-	-
Benzo(b)fluoranthene	mg/kg	2	0.6	2	**1.17**	-	0.0171 J	ND	-	ND	-	0.0145 J	-	0.0452	0.103	-	-	-
Benzo(g,h,i)perylene	mg/kg	30,000	380,000	-	0.411	-	ND	ND	-	ND	-	ND	-	0.0278 J	0.0386 J	-	-	-
Benzo(k)fluoranthene	mg/kg	23	6	25	0.391	-	ND	ND	-	ND	-	ND	-	ND	0.0306 J	-	-	-
1,1'-Biphenyl	mg/kg	34,000	3,100	140	0.0239 J	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Carbazole	mg/kg	96	24	-	0.172	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Chrysene	mg/kg	230	62	80	1.16	-	0.0297 J	ND	-	ND	-	0.0147 J	-	0.0642	0.126	-	-	-
Dibenzo(a,h)anthracene	mg/kg	0.2	0.2	0.8	0.122	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Dibenzofuran	mg/kg	-	-	-	0.0389 J	-	ND	ND	-	0.999	-	ND	-	ND	ND	-	-	-
Di-n-butyl phthalate	mg/kg	68,000	6,100	760	0.212	-	ND	0.13	-	ND	-	0.0956	-	0.155	ND	-	-	-
bis(2-Ethylhexyl)phthalate	mg/kg	140	35	1,200	0.64	-	ND	ND	-	ND (0.16)	-	ND	-	0.105	ND	-	-	-
Fluoranthene	mg/kg	24,000	2,300	1,300	2.21	-	0.136	0.0233 J	-	0.213	-	0.0219 J	-	0.103	0.188	-	-	-
Fluorene	mg/kg	24,000	2,300	170	0.0611	-	0.209	ND	-	3.71	-	ND	-	0.96	0.565	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	2	0.6	7	0.425	-	ND	ND	-	ND	-	ND	-	0.0278 J	0.0413 J	-	-	-
2-Methylnaphthalene	mg/kg	2,400	230	8	0.0641 J	-	ND	ND	-	ND	-	ND	-	0.879	ND	-	-	-
Naphthalene	mg/kg	17	6	25	0.0734	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Phenanthrene	mg/kg	300,000	-	-	0.483	-	0.0230 J	0.146	-	4.98	-	ND	-	1.44	1.3	-	-	-
Pyrene	mg/kg	18,000	1700	840	1.99	-	0.124	0.0395	-	0.382	-	0.0180 J	-	0.131	0.399	-	-	-
Total TIC, Semi-Volatile	mg/kg	-	-	-	29.78 J	-	12.89 J	13.23 J	-	191.7 J	-	1.46 J	-	38.5 J	35.3 J	-	-	-
Total Alkanes	mg/kg	-	-	-	6.02 J	-	14.29 J	18.78 J	-	89.8 J	-	18.3 J	-	82 J	35.4 J	-	-	-
Polychlorinated Biphenyls																		
Aroclor 1016	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1221	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1232	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1242	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1248	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1254	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1260	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1268	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Aroclor 1262	mg/kg	1	0.2	0.2	ND	-	ND	ND	-	ND	-	ND	-	ND	-	-	-	-
Metal Compounds																		
Aluminum	mg/kg	-	78,000	6,000	**14,000**	-	3,470	3,370	-	4,080	-	4,180	-	**11,600**	3,170	-	-	-
Antimony	mg/kg	450	31	6	3.1	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Arsenic	mg/kg	19	19	19	**83.2**	-	6	6	-	8.8	-	2.6	-	18	7.6	-	-	-
Barium	mg/kg	59,000	16,000	2,100	306	-	ND	ND	-	ND	-	ND	-	101	33.5	-	-	-
Beryllium	mg/kg	140	16	0.7	**0.97**	-	0.34	0.39	-	0.37	-	0.31	-	**0.89**	0.48	-	-	-
Cadmium	mg/kg	78	78	2	**2.6**	-	ND	ND	-	ND	-	ND	-	1	ND	-	-	-
Calcium	mg/kg	-	-	-	3,030	-	ND	ND	-	547	-	ND	-	2,990	ND	-	-	-
Chromium	mg/kg	-	-	-	98.6	-	15.1	11.6	-	40.3	-	12	-	46	16.6	-	-	-
Cobalt	mg/kg	590	1,600	90	12.3	-	ND	ND	-	ND	-	ND	-	12.8	ND (5.5)	-	-	-
Copper	mg/kg	45,000	3,100	11,000	456	-	10.8	7.8	-	12.1	-	10.3	-	88.5	12.5	-	-	-
Iron	mg/kg	-	-	-	39,000	-	18,800	15,600	-	23,000	-	12,400	-	35,700	24,700	-	-	-
Lead	mg/kg	800	400	90	**227**	-	5.5	5.3	-	9.6	-	6.7	-	45	8.7	-	-	-
Magnesium	mg/kg	-	-	-	5,830	-	1,460	1,150	-	1,730	-	1,620	-	4,830	1,520	-	-	-
Manganese	mg/kg	5,900	11,000	65	**376**	-	**88.7**	**69.9**	-	**105**	-	**67.7**	-	**381**	**110**	-	-	-
Mercury	mg/kg	65	23	0.1	**3.3**	-	0.047	ND	-	ND	-	ND	-	**0.44**	ND	-	-	-
Nickel	mg/kg	23,000	1,600	48	45.8	-	13	7.3	-	9.2	-	8.5	-	27.6	10.6	-	-	-
Potassium	mg/kg	-	-	-	2,590	-	ND	ND	-	ND	-	ND	-	2,470	ND	-	-	-
Selenium	mg/kg	5,700	390	11	**11.4**	-	ND	ND	-	ND	-	ND	-	ND	ND	-	-	-
Silver	mg/kg	5,700	390	1	**2**	-	ND	0.57	-	ND	-	ND	-	ND	0.61	-	-	-
Vanadium	mg/kg	1,100	78	-	43.3	-	17	22.3	-	46.3	-	15.2	-	38.8	21.2	-	-	-
Zinc	mg/kg	110,000	23,000	930	332	-	37.3	26.2	-	29.3	-	35.2	-	105	40.4	-	-	-
General Chemistry																		
Solids, Percent	%	-	-	-	68.1	85.3	89.4	90.7	98.2	78.5	89.7	91.3	58.3	79.1	91.6	86	70	65.2

All samples in mg/kg unless otherwise noted.
J = Estimated Value
NS - Not Sampled
ND - Not Detected
NA - Not Analyzed
( ) = method detection limit
- = No standard available
B - The compound was detected in the blank and the sample
** Health based standard defaults to soil saturation limit
[b] Result is from Run #2
[a] Result if from Second Run

* = NJDEP EPH Trigger Concentration for Contingency Analyses
** = NJDEP EPH Residential Soil Remediation Criteria
*** = NJDEP EPH Non-residential Soil Remediation Criteria
mg/kg = milligrams per killigram
SS = Sample-specific Standard (contingency analyses run for Unknown Petroleum Hydrocarbons as required in Table 2-1 of NJAC 7:26E Technical Requirements for Site Remediation)
[ ] = Sample-specific Residential Standard in brackets
[1] = Non-residential EPH Soil Remediation Criteria defaults to 17,000 mg/kg (detection of free product)

: Above allowable EPH SRC, i.e. Fail
: Above allowable Soil Remediation Criterion
: Exceeds NJDEP Non-residential Soil Remediation Standard
: Exceeds NJDEP Residential Soil Remediation Standard
: Exceeds NJ Default Impact to Ground Water Soil Screening