Environmental Protection Agency
Regional Inspectorate, Clonskeagh
Road, Dublin 14

Report of:	Analysis of Waste Facility sample(s)
Report to:	Office of Environmental Enforcement, EPA.
Report date:	20/09/10

Licensee:	**Neiphin Trading Ltd.**
Facility:	**Kerdiffstown** Naas, Co. Kildare,
Reference No:	W0047-02

Date collected:	21/07/2010	Date received:	21/07/2010

			Laboratory Ref:	1003987	1003988	1003989	1003990	1003991	1003992	
			Type of sample:	Waste	Waste	Waste	Waste	Waste	Waste	
			Location code:	WST-W0047-02-EMW03	WST-W0047-02-EMW05	WST-W0047-02-EMW02	WST-W0047-02-EMW04	WST-W0047-02-EMW08	WST-W0047-02-EMW07	
			Sampling point:	EMW03	EMW05	EMW02	EMW04	EMW08	EMW07	
			Sampled by:	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	
			Time Sampled:	11.15	11.50	12.30	13.40	14.10	14.35	
			Start/End - Dates of Analysis:	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	
			Status of results:	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	
Parameter		**Units**	**Limits**							
	pH	pH units		6.9	6.9	7.1	6.9	7.1	6.9	
	Conductivity @20°C	µS/cm		3125	883	1067	1862	581	1340	
	Biochemical Oxygen Demand	mg/l O2		6	2	2	19	<2	<2	
	Chemical Oxygen Demand	mg/l O2		340	<10	10	80	<10	22	
	ortho-Phosphate (as P)	µg/l P		6	10	9	25	12	7	
	Total Oxidised Nitrogen (as N)	mg/l N		<0.1	0.6	15.8	32.2	<0.1	<0.1	
	Ammonia-Total (as N)	mg/l N		110.9	0.3	2.34	21.85	0.17	3.43	
	Total Nitrogen	mg/l N		118.5	1.5	19.2	56.3	0.5	4.2	
	Nitrite (as N)	mg/l N		<0.01	0.01	0.01	6.25	<0.01	<0.01	
	Total Hardness (as Ca)	mg/l Ca		161	112	130	153	61	182	
	Nitrate (as N)	mg/l N		<0.1	0.6	15.8	26.0	<0.1	<0.1	
	Total Phosphorus	µg/l P		100	66	79	128	31	88	
	Fluoride	mg/l F		0.48	0.06	<0.05	0.18	0.06	0.08	
	Chloride	mg/l Cl		231.3	41.5	38.2	113.0	7.3	64.5	
	Sulphate	mg/l SO4		20.3	30.7	73.1	56.4	13.5	339.8	
	Sodium IC	mg/l		252.9	32.1	35.9	118.6	4.1	55.5	
	Potassium IC	mg/l		90.2	1.2	3.4	39.5	<0.5	7.5	
	Magnesium IC	mg/l		91.0	11.9	16.7	51.7	8.3	30.1	
	Calcium IC	mg/l		201.4	193.4	232.9	274.5	141.8	260.3	
	Alkalinity-total (as CaCO3)	mg/l CaCO3		1688	538	573	973	386	545	

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			Location code:	WST-W0047-02-EMW03	WST-W0047-02-EMW05	WST-W0047-02-EMW02	WST-W0047-02-EMW04	WST-W0047-02-EMW08	WST-W0047-02-EMW07	
			Sampling point:	EMW03	EMW05	EMW02	EMW04	EMW08	EMW07	
			Sampled by:	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	
			Time Sampled:	11.15	11.50	12.30	13.40	14.10	14.35	
			Start/End - Dates of Analysis:	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	22-07-10/12-08-10	
			Status of results:	Final	Final	Final	Final	Final	Final	
Parameter		Units	Limits							
	Boron	µg/l		1590	122	222	899	19	162	
	Chromium	µg/l		4	9	3	15	2	3	
	Iron	µg/l		13300	<10	<10	<10	2970	14300	
	Manganese	µg/l		1760	68	31	1720	902	1770	
	Nickel	µg/l		66	5	4	37	<0.5	4	
	Copper	µg/l		1	2	2	9	0.7	<0.5	
	Zinc	µg/l		29	1	12	8	4	5	
	Arsenic	µg/l		23	0.5	1	4	5	14	
	Cadmium	µg/l		0.2	<0.1	0.1	0.5	<0.1	<0.1	
	Mercury	µg/l		0.06	<0.05	<0.05	<0.05	<0.05	<0.05	
	Lead	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Strontium	µg/l		2520	318	480	1930	241	609	
	Dichlorodifluoromethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Vinyl Chloride	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Bromomethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Trichlorofluoromethane	µg/l		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
	1,1-Dichloroethene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Dichloromethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	t-1,2-Dichloroethene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,1-Dichloroethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	c-1,2-Dichloroethene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

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			Location code:	WST-W0047-02-EMW03	WST-W0047-02-EMW05	WST-W0047-02-EMW02	WST-W0047-02-EMW04	WST-W0047-02-EMW08	WST-W0047-02-EMW07	
			Sampling point:	EMW03	EMW05	EMW02	EMW04	EMW08	EMW07	
			Sampled by:	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	C Gahan + J Hunter	
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			Status of results:	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	
Parameter		**Units**	**Limits**							
	2,2-Dichloropropane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Bromochloromethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Chloroform	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,1,1-Trichloroethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2-Dichloroethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,1-Dichloropropene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Benzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Carbon Tetrachloride	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Trichloroethene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2-Dichloropropane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Dibromomethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Bromodichloromethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	c-1,3-Dichloropropene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Toluene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	t-1,3-Dichloropropene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,1,2-Trichloroethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,3-Dichloropropane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Dibromochloromethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Tetrachloroethene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2-Dibromoethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Chlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

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			Sampling point:	EMW03	EMW05	EMW02	EMW04	EMW08	EMW07	
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			Status of results:	Final	Final	Final	Final	Final	Final	
Parameter		Units	Limits							
	1,1,1,2-Tetrachloroethane	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Ethylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	m,p-Xylene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Styrene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	o-Xylene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Bromoform	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,1,2,2-Tetrachloroethane	µg/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Isopropylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2,3-Trichloropropane	µg/l		<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	
	Bromobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	2-Chlorotoluene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	n-Propylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	4-Chlorotoluene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,3,5-Trimethylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	tert-Butylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2,4-Trimethylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2-Dichlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,4-Dichlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	sec-Butylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	4-Isopropyltoluene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,3-Dichlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

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			Sampling point:	EMW03	EMW05	EMW02	EMW04	EMW08	EMW07	
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			Status of results:	**Final**	**Final**	**Final**	**Final**	**Final**	**Final**	
Parameter		**Units**	**Limits**							
	n-Butylbenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2-Dibromo-3-Chloropropane	µg/l		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	
	1,2,4-Trichlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Naphthalene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Hexachlorobutadiene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	1,2,3-Trichlorobenzene	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	Total Organic Carbon	mg/l		69.8	8.22	8.06	25.9	3.77	13.4	

Comments: BOD results are guide only due to QC failure. TOC analysis subcontracted to EPA Cork laboratory. Particulate matter removed via centrifuge prior to TOC analysis.

1) Results highlighted and in bold are outside specified limits.
2) VOC's Analysed in the EPA Kilkenny Laboratory.
3) Metal analysis (by ICPMS) was carried out on unfiltered samples.
4) F "Field measured parameter"
5) nm "Not measured"
6) ns "Not sampled for this parameter"
7) nr "Not reported"

Signed: Date: 20/9/10

Cara O'Loughlin
Chemist, EPA Dublin