Newfoundland Labrador

Department of Environment & Conservation
Government of Newfoundland and Labrador
Pollution Prevention Division (Environment)

CERTIFICATE OF APPROVAL

Pursuant to the *Environmental Protection Act, SNL 2002, Sections 16, 78 and 83.*

Issued:	November 1 2015	Approval No.:	WMS-15-10-010
Expiration:	November 1 2020	File No.:	842.037.6

Proponents: **Dewatering Technologies**
30 Kyle Ave
Mount Pearl, NL A1N 4R5

Attention: Mr. Derek Pardy, Director

Re: Waste Water Treatment at Mount Pearl Facility

Approval is hereby given for operation of a waste water treatment facility, using the Halliburton Multi-Chem Water Treatment system designed for Dewatering Technologies

This approval does not release the holder from the obligation to obtain appropriate approvals from other concerned provincial, federal and municipal agencies. Approval from the Department of Environment and Conservation (the Department) shall be obtained prior to any significant change in the design, construction, installation, or operation of the facility, including any future expansion of the works. This certificate shall not be sold, assigned, transferred, leased, mortgaged, sublet or otherwise alienated by the holder without obtaining prior written approval from the Minister.

This approval is subject to the terms and conditions as contained in Appendix A, attached hereto, as may be revised from time to time by the Department of Environment and Conservation. Appendix A, forms part and parcel of this certificate of approval. Failure to comply with any of the terms and conditions may render this certificate of approval null and void, may require the proponent to cease all activities associated with this certificate of approval, may place the proponent and its agent(s) in violation of the *Environmental Protection Act,* SNL., 2002, c. E-14-2, and will make the proponent responsible for taking such remedial measures as may be prescribed by the Department of Environment and Conservation. The Department reserves the right to modify or revoke this approval at any time.

MINISTER

Appendix A

GENERAL

1. This Certificate of Approval will be posted on the departments website at www.env.gov.nl.ca/env/env_protection/waste/certificates.html

2. Pardy's Holdings Limited is the parent company of: Pardy's Waste Management and Industrial Services Limited; 10643 Newfoundland Inc.; and Disposal Services Limited.

3. Prior to any expansion or modification of the facility, a letter of application shall be forwarded to the Department requesting an amendment to this approval or a separate approval for the additional activity.

4. The volume of waste water to be treated shall not exceed 97,000 litres per each batch. Additional batches of waste water are allowed to be treated provided Pardy's has enough storage capacity to hold the treated waste water until laboratory analyses are made available.

Application Submissions

5. Pardy's application to the Department included:

- environmental liability impairment insurance from ***Certain Underwriters at Lloyds's under Contract ESR2014001 (Policy Number 133223)***; and
- surety bond from ***Intact Insurance Company (Bond No. 960012508)***.

Definitions

6. In this Certificate of Approval:

- **adverse effect** means an effect that impairs or damages the environment and includes an adverse effect to the health of humans;
- **contaminant** means, unless otherwise defined in the regulations, a substance that causes or may cause an adverse effect;
- **CCME** means Canadian Council of Ministers of the Environment;
- **CEQG** means CCME Canadian Environmental Quality Guidelines;
- **Department** means Department of Environment and Conservation;
- **Director** means the Director of the Pollution Prevention Division (PPD) of the Department;
- **discharge location** means either a sanitary sewer, storm sewer, waterbody, groundwater re-injection, holding tank/pond, or settling pond;
- **ECWSR** means Environmental Control Water and Sewer Regulations

under the Water Resources Act

- **GSC** means Government Service Centre of Service NL
- **FAL** means freshwater aquatic life;
- **oily water** means water contaminated with only TPH in excess of 15 ppm (or 100 ppm if discharging to sanitary sewer systems with a WWTP. It should be noted that WWTP's do not treat flows from storm sewers). Furthermore, oily water may contain TSS below or above acceptable levels, but not likely contain other contaminants of concern;
- **Pardy's or the proponent** means either Pardy's Holdings Limited, Pardy's Waste Management and Industrial Services Limited; 10643 Newfoundland Inc.; and/or Disposal Services Limited;
- **PPD** means Pollution Prevention Division of the Department;
- **pre-treatment laboratory results** means wastewater sampling and analysis prior to, and without dilution, before processing.
- **QA/QC** means Quality Assurance/Quality Control;
- **regional Director** means the Director of the nearest GSC;
- **WWTP** means wastewater treatment plant. Generally, a municipal WWTP treats sanitary sewer flows, but not stormwater flows.

GENERAL

7. Pardy's Holdings Limited is the parent company of: Pardy's Waste Management and Industrial Services Limited; 10643 Newfoundland Inc.; and Disposal Services Limited.

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9. The volume of waste water to be treated shall not exceed 97,000 litres per each batch. Additional batches of waste water are allowed to be treated provided Pardy's has enough storage capacity to hold the treated waste water until laboratory analyses are made available.

Further Assessment

10. The Minister may at any time, with reasonable notice, require the proponent to conduct or have conducted environmental studies, site assessments, sampling, testing, or investigations where, based upon reasonable and probable grounds, the Minister is of the opinion that the waste management system may have had, or has the potential to have, an adverse effect on the environment.

Service NL

11. Through a Memorandum-of-Understanding this Department has authorized Service NL to act on its behalf in inspecting and/or auditing this operation for compliance under this approval and all applicable provincial Acts and Regulations.

Legislation

12. The activities associated with this operation may involve, but not be limited to, the following provincial Acts and Regulations and any future amendments:

- *Dangerous Goods Transportation Act*
- *Fire Prevention Act*
- *Environmental Protection Act*
- *Air Pollution Control Regulations, 2004*
- *Storage and Handling of Gasoline and Associated Products Regulations, 2003*
- *Used Oil Control Regulations*
- *Water Resources Act*
- *Environmental Control Water and Sewage Regulations, 2003.*

13. The activities associated with this operation may involve, but not be limited to, the following federal Acts and Regulations:

- *Canadian Environmental Protection Act and Regulations*
- *Interprovincial Movement of Hazardous Waste and Hazardous Recyclable Material Regulations*
- *Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations*
- *Transportation of Dangerous Goods Act and Regulations*
- *Fisheries Act*
- *National Fire Code*

Financial Assurance

14. Valid environmental liability impairment insurance in the amount of $1,000,000 shall be maintained otherwise this approval shall be null and void.

15. A surety bond of $40,000 shall be maintained, and on file with the Department, otherwise this approval shall be null and void.

16. Annual updates of the financial assurance documents shall be filed with the Department.

17. The proponent shall provide the Department with three months advance notice if they intend to cancel coverage and/or change the insurer or bonding agent.

Emergency & OHS Preparedness

18. The proponent shall file a contingency plan for environmental and OHS emergencies with the regional Service NL office and the Department prior to commencing operation and, thereafter, provide any annual updates. An updated copy of the contingency plan shall be kept on site at all times.

19. The proponent shall ensure that this approval, or a copies, is kept in the workplace at all times and that personnel directly involved in the operation of the remediation facility are made fully aware of the terms and conditions which pertain to this approval.

20. All responsible personnel who are directly involved with operation and maintenance of the processing system shall be provided copies of this approval.

21. For after hours emergencies and spill reports call: **1-800-563-9089 or (709) 772-2083**.

22. All appropriate health and safety procedures shall be constantly maintained in the workplace in accordance with applicable legislation.

23. Pre-engineered treatment system(s) shall be operated and maintained in accordance with the manufacturers' operating and maintenance specifications and health and safety plan.

24. Contingency Plan updates shall be provided at least annually to the Department and Service NL.

25. The operator(s) shall have petroleum fire and spill response training.

Spill Prevention

26. Areas in which chemicals are used or stored shall have impermeable floors and dykes or curbs and shall not have a floor drain system, nor shall it discharge to the environment. Areas inside the dykes or curbs shall have an effective secondary containment capacity of at least ***110%*** of the chemical storage tank capacity, in the case of a single storage container. If there is more than one storage container, the dyked area shall be able to retain no less than ***110% of the capacity of the largest container or 100 %*** **of the capacity of the largest container plus 10% of the aggregate capacity of all additional containers, whichever is greater.** These dyked areas shall be kept clear of material that may compromise the capacity of the dyke system. Once a year, the dykes shall be visually inspected for their liquid containing integrity, and repairs shall be made when required.

Once every ten years, the dykes shall be inspected, by a means other than visual inspection, for their liquid containing integrity, and repairs shall be made when required.

Discharge to Sewage Treatment Plants & Sewer

27. For discharges to a sewer which does not lead to a sewage treatment facility, the limits established under Schedule A of the ***Environmental Control Water and Sewage Regulations*** apply.

28. For discharges to a sewer which leads to a sewage treatment facility, the limits established under Schedule B of the ***Environmental Control Water and Sewage Regulations*** apply.

29. If the proposed treatment process cannot produce an effluent in compliance with Schedule B of the ECWSR, the discharge is not allowed and a new treatment process shall be submitted to the Department for review, or the waste material shall be transported to a facility approved to accept the waste material by the authority having jurisdiction.

30. For parameters not included in either Schedule A or B of these regulations refer to the applicable criteria as per the ***Discharge Water Quality*** section.

31. Approval from the sewer system owner and Water Resources Division of the Department will be required prior to discharging to any sewer system.

32. Prior to the commencement of discharge, treated waste water shall be held in an approved storage tank(s). Confirmatory compliance sampling shall be conducted on each batch of treated effluent prior to discharge to the City of Mount Pearl or City of St. John's sanitary sewer systems. Tank(s) must be isolated from the time of the sample collection until final discharge. Required sampling parameters and discharge criteria are listed in Table 1:

Table 1: Required Sampling Parameters and Discharge Criteria

Parameter	Discharge Criteria (mg/l unless specified)
BOD_5	300
TPH	100
TSS	350
Boron	5.0
Cadmium	0.05
Chromium (hexavalent)	0.05
Chromium (tricalent)	1.0
Copper	0.3

Cyanide	2.0
Iron	15.0
Lead	0.2
Mercury	0.005
Nickle	0.5
Phenols	0.5
Phosphates (total as P_2O_5)	10.0
Zinc	0.5
pH	5.5-9 pH units
Volume of discharge	Not to exceed 97000L per batch

Laboratory Analysis & QA/QC

33. Unless otherwise stated herein, all liquid and solids analysis performed pursuant to this Approval shall be done by a contracted commercial or in-house laboratory as per the ***Accredited and Certified Laboratory Policy (PD:PP2001-01.01)***.

Monitoring Alteration

34. The Director has the authority to alter the monitoring programs or require additional testing at any time when:

- pollutants might be released to the surrounding environment without being detected;
- an adverse environmental effect may occur; or
- it is no longer necessary to maintain the current frequency of sampling and/or the monitoring of parameters.

35. The proponent may, at any time, request that the monitoring program or requirements of this Approval be altered by:

- requesting the change in writing to the Director; and
- providing sufficient justification, as determined by the Director.

36. The requirements of this Approval shall remain in effect until altered, in writing, by the Director.

Reporting

37. The annual report shall be submitted to the Department by January 31, each year summarizing the proponents activities for the previous year. Also, this report shall include the current insurance and bonding documents as specified in the ***Emergency & OHS Preparedness*** and ***Financial Assurance*** sections and any

updates to the *Contingency Plan*.

38. All incidents of:
    - *Contingency Plan* implementation;
    - non-conformance of any condition within this approval;
    - spillage or leakage of a regulated substance;
    - whenever discharge criteria is, or is suspected to be, exceeded; or
    - verbal/written complaints of an environmental nature from the public received by Pardy related to the temporary site

    shall be immediately reported, within one working day, to a person or message manager or facsimile machine to the GSC by phoning or faxing.

    Service NL Mount Pearl
    P.O. Box 8700
    A1B 4J6
    Telephone (709) 729-3699
    Facsimile: (709) 729-7400

39. A written incident report including a detailed description of the incident, summary of contributing factors and an action plan to prevent future incidents of a similar nature, shall be submitted to the respective Regional Director of Service NL. The action plan shall include a description of actions already taken and future actions to be implemented, and shall be submitted within thirty days of the date of the initial incident.

Expiration

40. This approval expires on the date indicated on the first page of this Certificate.

41. Should the proponent wish to continue to operate beyond this expiry date, a written request shall be submitted to the department for the renewal of this approval. Such request shall be made at least ***6 months prior to expiration.***

c.c.

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