**RCRA POST-CLOSURE PERMIT APPLICATION**

**COMPLETENESS AND TECHNICAL REVIEW CHECKLIST**

**May 2021**

Facility Name **: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Date Application Received : \_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Log No. : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Revision No. : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

State ID No. : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Reviewer : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

USEPA No. : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Review Dates : **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  | **Section** | **Complete**  **(Y/N)** | **Technical**  **Adequacy (Y/N)** | **Location** | | **Comments** |
| --- | --- | --- | --- | --- | --- | --- |
| **A** | **Forms, Certifications, Confidentiality, and Public Involvement** | **XX** | **XX** |  |  | |
| **A.1** | **RCRA Part A Application Form** |  |  |  |  | |
| **A.2** | **Certification Using the LPC-PA23 Form** |  |  |  |  | |
| A.2.1 | Facility Certification |  |  |  |  | |
| A.2.2 | Technical Information Certification |  |  |  |  | |
| A.2.3 | 39i Certification |  |  |  |  | |
| **A.3** | **Public Disclosure Exemption Claims and Trade Secret Claims** |  |  |  |  | |
| A.3.1 | No information Claimed Exempt from Public Disclosure |  |  |  |  | |
| A.3.2 | Trade Secrets Claims |  |  |  |  | |
| A.3.3 | Exempt or Exempt In-Part Data Claims |  |  |  |  | |
| A.3.4 | Privileged Information |  |  |  |  | |
| **A.4** | **Public Participation: Facility Mailing List & Information Repositories** |  |  |  |  | |
| A.4.1 | Facility Mailing |  |  |  |  | |
| A.4.2 | Identification of Repositories |  |  |  |  | |
| A.4.3 | Contents of Repository |  |  |  |  | |
| A.4.4 | Public Notice of Repository Availability |  |  |  |  | |
|  |  |  |  |  |  | |
| **B** | **Facility Description** | **XX** | **XX** |  |  | |
| **B.1** | **General Facility Description** |  |  |  |  | |
| B.1.1 | Operation of Facility |  |  |  |  | |
| B.1.2 | Hazardous Waste Management Units at the Facility |  |  |  |  | |
| B.1.3 | Solid Waste Management Units at the Facility |  |  |  |  | |
| **B.2** | **Topographic Map** |  |  |  |  | |
| B.2.1 | Facility + 1 mile |  |  |  |  | |
| B.2.2 | Facility + 1000 feet |  |  |  |  | |
| **B.3** | **Location Standards** |  |  |  |  | |
| B.3.1 | Seismic Standard |  |  |  |  | |
| B.3.2 | Floodplain Standard |  |  |  |  | |
| B.3.3 | Facilities in the 100-year Floodplain |  |  |  |  | |
| B.3.3.1 | Engineering Analysis and Structural/Engineering Study |  |  |  |  | |
| B.3.3.2 | Procedures to Remove Waste |  |  |  |  | |
| B.3.4 | Existing Facilities not in Compliance with 35 Ill. Admin Code 724.118(b) |  |  |  |  | |
| **B.4** | **Operating Record** |  |  |  |  | |
|  |  |  |  |  |  | |
|  |  |  |  |  |  | |
|  |  |  |  |  |  | |
| **C** | **Groundwater Monitoring** | **XX** | **XX** |  |  | |
| **C.1** | **Exemption from Groundwater Protection Requirements** |  |  |  |  | |
| C.1.1 | Waste Piles |  |  |  |  | |
| C.1.2 | Landfills |  |  |  |  | |
| C.1.3 | No Migration |  |  |  |  | |
| **C.2** | **Interim Status Groundwater Monitoring Data** |  |  |  |  | |
| **C.3** | **Historical Hydrogeological Summary** |  |  |  |  | |
| **C.4** | **Topographic Map Requirements** |  |  |  |  | |
| **C.5** | **Contaminant Plume Description** |  |  |  |  | |
| **C.6** | **Detection Monitoring Program** |  |  |  |  | |
| C.6.1 | Indicator Parameters, Waste Constituents, Reaction Productions to be Monitored |  |  |  |  | |
| C.6.2 | General Monitoring Program Requirements |  |  |  |  | |
| C.6.3 | Groundwater Monitoring System |  |  |  |  | |
| C.6.4 | Description of Sampling and Analysis Procedures |  |  |  |  | |
| C.6.5 | Evaluation of Groundwater Surface |  |  |  |  | |
| C.6.6 | Background Quality |  |  |  |  | |
| C.6.7 | Statistical Evaluations |  |  |  |  | |
| C.6.8 | Statistically Significant Increases |  |  |  |  | |
| **C.7** | **Compliance Monitoring Program** |  |  |  |  | |
| C.7.1 | Description of the Monitoring Program |  |  |  |  | |
| C.7.1.1 | Waste Description |  |  |  |  | |
| C.7.1.2 | Concentration Limits |  |  |  |  | |
| C.7.1.3 | Compliance Point |  |  |  |  | |
| C.7.1.4 | Compliance Period |  |  |  |  | |
| C.7.2 | Alternate Concentration Limits |  |  |  |  | |
| C.7.2.1 | Adverse Effects on Groundwater Quality |  |  |  |  | |
| C.7.2.2 | Potential Adverse Effects on Hydraulically Connected Surface Water Quality |  |  |  |  | |
| C.7.3 | General Monitoring Program Requirements |  |  |  |  | |
| C.7.4 | Groundwater Monitoring System |  |  |  |  | |
| C.7.5 | Description of Sampling and Analysis Procedures |  |  |  |  | |
| C.7.6 | Background Quality |  |  |  |  | |
| C.7.7 | Statistical Evaluations |  |  |  |  | |
| C.7.8 | Evaluation of Groundwater Surface |  |  |  |  | |
| C.7.9 | Annual Appendix I |  |  |  |  | |
| C.7.10 | Statistically Significant Increases |  |  |  |  | |
| **C.8** | **Corrective Action Program** |  |  |  |  | |
| C.8.1 | Description of Corrective Action Program |  |  |  |  | |
| C.8.1.1 | Characterization of Contaminated Groundwater |  |  |  |  | |
| C.8.1.2 | Concentration Limits |  |  |  |  | |
| C.8.1.3 | Compliance Point |  |  |  |  | |
| C.8.1.4 | Compliance Period |  |  |  |  | |
| C.8.1.5 | Construction Detail |  |  |  |  | |
| C.8.1.6 | Effectiveness of Corrective Action |  |  |  |  | |
| C.8.2 | Alternate Concentration Limits |  |  |  |  | |
| C.8.2.1 | Adverse Effects on Groundwater Quality |  |  |  |  | |
| C.8.2.2 | Potential Adverse Effects on Hydraulically-Connected Surface Water Quality |  |  |  |  | |
| C.8.3 | Corrective Action Plan |  |  |  |  | |
| C.8.4 | Groundwater Monitoring Program |  |  |  |  | |
| C.8.4.1 | General Monitoring Program Requirements |  |  |  |  | |
| C.8.4.2 | Groundwater Monitoring System |  |  |  |  | |
| C.8.4.3 | Description of Sampling and Analysis Procedures |  |  |  |  | |
| C.8.4.4 | Background Quality |  |  |  |  | |
| C.8.4.5 | Statistical Evaluations |  |  |  |  | |
| C.8.4.6 | Evaluation of Groundwater Surface |  |  |  |  | |
| C.8.4.7 | Extension of Compliance Period |  |  |  |  | |
| C.8.4.8 | Effectiveness of Corrective Action |  |  |  |  | |
| C.8.4.9 | Evaluation of the Corrective Action Program |  |  |  |  | |
| **C.9** | **Reporting Requirements** |  |  |  |  | |
|  |  |  |  |  |  | |
| **D** | **Procedures to Prevent Hazards** | **XX** | **XX** |  |  | |
| **D.1** | **Security** |  |  |  |  | |
| D.1.1 | Waiver from the Security Requirements |  |  |  |  | |
| D.1.2 | Restricting Entry to the Facility |  |  |  |  | |
| D.1.3 | Warning Signs |  |  |  |  | |
| **D.2** | **Equipment Requirements** |  |  |  |  | |
| D.2.1 | Waiver |  |  |  |  | |
| D.2.2 | Internal Communications |  |  |  |  | |
| D.2.3 | External Communications |  |  |  |  | |
| D.2.4 | Emergency Response Equipment |  |  |  |  | |
| D.2.5 | Water for Fire Control |  |  |  |  | |
| D.2.6 | Personnel Protection Equipment |  |  |  |  | |
| D.2.7 | Testing & Maintenance of Emergency Equipment |  |  |  |  | |
| D.2.7.1 | Equipment Testing |  |  |  |  | |
| D.2.7.2 | Schedule |  |  |  |  | |
| D.2.8 | Equipment and Power Failure |  |  |  |  | |
| **D.3** | **Inspection Requirements** |  |  |  |  | |
| D.3.1 | Inspection Log |  |  |  |  | |
| D.3.1.1 | Items Inspected |  |  |  |  | |
| D.3.1.2 | Types of Problems |  |  |  |  | |
| D.3.1.3 | Inspection Frequency |  |  |  |  | |
| D.3.2 | Repair Log |  |  |  |  | |
| D.3.3 | 24 Hour Reporting |  |  |  |  | |
|  |  |  |  |  |  | |
| **E** | **Post-Closure Requirements** | **XX** | **XX** |  |  | |
| **E.1** | **Information Regarding the Unit(s) Closed as a Landfill** |  |  |  |  | |
| E.1.1 | General Information Regarding the Unit to Receive Post-Closure Care |  |  |  |  | |
| E.1.2 | Geology and Hydrogeology Around/ Beneath the Unit |  |  |  |  | |
| E.1.3 | Characterization of Waste/ Contaminated Soil Present in the Landfill Unit |  |  |  |  | |
| E.1.4 | Initial Closure Activities |  |  |  |  | |
| E.1.5 | Details Associated with the Closed Unit |  |  |  |  | |
| **E.2** | **Contact Person** |  |  |  |  | |
| **E.3** | **Operation of the Leachate Collection System** |  |  |  |  | |
| E.3.1 | Quality of Leachate in the Leachate Collection System |  |  |  |  | |
| E.3.2 | Leachate Collection System Within the Landfill |  |  |  |  | |
| E.3.3 | Leachate Collection System Outside the Landfill |  |  |  |  | |
| E.3.4 | Management of Leachate Collection System |  |  |  |  | |
| E.3.5 | Summary of Leachate Management Program Conducted to Date |  |  |  |  | |
| **E.4** | **Operation of the Leak Detection System** |  |  |  |  | |
| E.4.1 | Description of the Leak Detection System Within the Landfill |  |  |  |  | |
| E.4.2 | Description of the Leak Detection System Outside the Landfill |  |  |  |  | |
| E.4.3 | Management of Leachate Accumulating in the Leak Detection System |  |  |  |  | |
| E.4.4 | Recent Operation of the Leak Detection System |  |  |  |  | |
| **E.5** | **Operation of the Gas Monitoring/ Collection System** |  |  |  |  | |
| E.5.1 | Detailed Description of the Landfill Gas Collection System |  |  |  |  | |
| E.5.2 | Landfill Gas Monitoring Plan |  |  |  |  | |
| E.5.3 | Landfill Gas Disposal/ Processing System |  |  |  |  | |
| E.5.4 | Summary of the Landfill Gas Collection/ Monitoring/ Processing Systems |  |  |  |  | |
| **E.6** | **Post-Closure Inspection Plan** |  |  |  |  | |
| E.6.1 | Inspection Log |  |  |  |  | |
| E.6.1.1 | Items Inspected |  |  |  |  | |
| E.6.1.2 | Types of Problems |  |  |  |  | |
| E.6.1.3 | Inspection Frequency |  |  |  |  | |
| E.6.2 | Repair Log |  |  |  |  | |
| E.6.3 | 24-Hour Reporting |  |  |  |  | |
| **E.7** | **Post-Closure Monitoring Plan** |  |  |  |  | |
| E.7.1 | Facility Controls |  |  |  |  | |
| E.7.2 | Surveys and Corrective Action |  |  |  |  | |
| E.7.2.1 | Provide the Following |  |  |  |  | |
| E.7.3 | Leachate Collection System (LCS) |  |  |  |  | |
| E.7.3.1 | Leachate Quality |  |  |  |  | |
| E.7.3.2 | Leachate Quantity |  |  |  |  | |
| E.7.3.3 | Leachate Reporting |  |  |  |  | |
| E.7.4 | Leak Detection System (LDS) |  |  |  |  | |
| E.7.4.1 | LDS Leachate Quantity |  |  |  |  | |
| E.7.4.2 | Action Leakage Rate (ALR) |  |  |  |  | |
| E.7.5 | Groundwater Monitoring System |  |  |  |  | |
| E.7.6 | Gas Collection System |  |  |  |  | |
| E.7.6.1 | Gas Quality |  |  |  |  | |
| E.7.6.2 | Gas Quantity |  |  |  |  | |
| E.7.6.3 | Summary of Results from the Gas Collection/ Monitoring System |  |  |  |  | |
| **E.8** | **Post-Closure Maintenance Plan** |  |  |  |  | |
| E.8.1 | Procedures, Equipment & Materials |  |  |  |  | |
| E.8.2 | Rationale |  |  |  |  | |
| E.8.3 | Frequency |  |  |  |  | |
| **E.9** | **Survey Plat** |  |  |  |  | |
| **E.10** | **Notice in Deed and Certification** |  |  |  |  | |
| **E.11** | **Post Closure Cost Estimate** |  |  |  |  | |
| **E.12** | **Financial Assurance Mechanism for Post-Closure Care** |  |  |  |  | |
| **E.13** | **State Mechanisms** |  |  |  |  | |
|  |  |  |  |  |  | |
| **F** | **Corrective Action (CA)** |  |  |  |  | |
| **F.1** | **Identification of Solid Waste Management Units (SWMUs)** |  |  |  |  | |
| **F.2** | **Characterization of the SWMUs** |  |  |  |  | |
| **F.3** | **Characterization of Releases from SWMUs** |  |  |  |  | |
| **F.4** | **Information Required for Renewal Applications** |  |  |  |  | |
| F.4.1 | Required Information if USEPA Oversaw Initial Corrective Action Program |  |  |  |  | |
|  | (1) Chronology of all CA related correspondence between USEPA & facility |  |  |  |  | |
|  | (2) Copies of all letters received from USEPA regarding CA |  |  |  |  | |
|  | (3) Copies of all letters regarding CA sent to USEPA |  |  |  |  | |
|  | (4) Detailed discussion of each SWMU |  |  |  |  | |
|  | (5) Information in Section C regarding any on-going groundwater monitoring/remediation |  |  |  |  | |
| F.4.2 | Required Information if IEPA Oversaw Initial Corrective Action Program |  |  |  |  | |
|  | (1) Chronology of all corrective action efforts completed to date |  |  |  |  | |
|  | (2) Discussion of all CA related correspondence between IEPA and facility & copies of all correspondence |  |  |  |  | |
|  | (3) Detailed discussion of each SWMU |  |  |  |  | |
|  | (4) Information in Section C regarding any on-going groundwater monitoring/remediation effort |  |  |  |  | |
| **F.5** | **Proposed Interim Measures to be Conducted** |  |  |  |  | |
| **F.6** | **Cost Estimate for Required Corrective Action** |  |  |  |  | |
| **F.7** | **Financial Assurance for Corrective Action** |  |  |  |  | |

Post-Closure Permit Checklist Nov 2019.docx