Clean Harbors La Porte, LLC
500 Independence Parkway South
La Porte, Texas 77571
281.884.5500
www.cleanharbors.com

August 21, 2020

Sent via Fed Ex & eMail

Gulay Aki, P.E., Section Manager (MC 130)
Industrial & Hazardous Waste Permits Section
Waste Permits Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Building F
Austin, Texas 78753
(512) 239-1000
EunJu.Lee@tceq.texas.gov

Re: Facility Response to Technical Notice of Deficiency Letter
Clean Harbors La Porte, LLC
La Porte, Harris County, Texas
Hazardous Waste Permit Number: 50225
Industrial Solid Waste Number: 50225
Tracking No. 2521390; RN102949021/CN603661844
Permit Renewal/Minor Amendment to the Permit

Dear Ms. Aki:

Please allow this correspondence to serve as the referenced facility's response to TCEQ's Technical Notice of Deficiency received via email on 7/16/2020 and 7/22/2020. The format of this response provides a table (see Enclosure) that outlines the information requested by TCEQ relative to this matter in the stipulated manner.

This response is being emailed to the attention of Eun Ju Lee, with the original and three (3) hardcopies being sent to TCEQ as instructed in the letter that accompanied the list of TNODs.

Please contact me at desha.david@cleanharbors.com or (423) 413-1218 with any questions or comments you have concerning this matter.

Sincerely,

David A. DeSha
Sr. Environmental Compliance Manager
Clean Harbors Environmental Services, Inc.

cc: Steve Venti – Clean Harbors La Porte, LLC (w/o attachments)
Facility File

Enclosure

CORRESPONDENCE COVER SHEET
WASTE PERMITS DIVISION
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Date: 8/21/2020
Facility Name: Clean Harbors La Porte, LLC
Permit or Registration No.: 50225

Nature of Correspondence:
☐ Initial/New
☒ Response/Revision*

*If Response/Revision, please provide previous TCEQ Tracking No.: 25213090
(Previous TCEQ Tracking No. can be found in the Subject line of the TCEQ's response letter to your original submittal.)

This cover sheet should accompany all correspondences submitted to the Waste Permits Division and should be affixed to the front of your submittal as a cover page. Please check the appropriate box for the type of correspondence being submitted. For questions regarding this form, please contact the Waste Permits Division at (512) 239-2335.

Table 1 - Municipal Solid Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New Notification	☐ Closure Report
☐ New Permit (including Subchapter T)	☐ Groundwater Alternate SRC Demonstration
☐ New Registration (including Subchapter T)	☐ Groundwater Corrective Action
☐ Major Amendment	☐ Groundwater Monitoring Report
☐ Minor Amendment	☐ Groundwater Statistical Evaluation
☐ Limited Scope Major Amendment	☐ Landfill Gas Corrective Action
☐ Notice Modification	☐ Landfill Gas Monitoring
☐ Non-Notice Modification	☐ Liner Evaluation Report
☐ Transfer/Name Change Modification	☐ Soil Boring Plan
☐ Temporary Authorization	☐ Special Waste Request
☐ Voluntary Revocation	☐ Other:
☐ Subchapter T Workplan	
☐ Other:	

Table 2 - Industrial & Hazardous Waste

APPLICATIONS	REPORTS and RESPONSES
☐ New	☐ Annual/Biennial Site Activity Report
☒ Renewal	☐ CfPT Plan/Result
☐ Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☒ Minor Amendment	☐ CPT Plan/Result
☐ Class 3 Modification	☐ Extension Request
☐ Class 2 Modification	☐ Groundwater Monitoring Report
☐ Class 1 ED Modification	☐ Interim Status Change
☐ Class 1 Modification	☐ Interim Status Closure Plan
☐ Endorsement	☐ Soil Core Monitoring Report
☐ Temporary Authorization	☐ Treatability Study
☐ Voluntary Revocation	☐ Trial Burn Plan/Result
☐ 335.6 Notification	☐ Unsaturated Zone Monitoring Report
☐ Other:	☐ Waste Minimization Report
	☒ Other: T**NOD**

ID[1]	App. Part	App. Section	Location[2]	Citation	Error Type[3]	Deficiency Description/Resolution	Facility Response
T1	A	I.A & I.H	Page 1 & Section III.22	Core Date Form (TCEQ – 10400) Instructions	Incorrect	Correct regulated entity name.	See **Attachment 1** which provides a replacement for the Core Data Form in the application Parts A (after Signatory Page) & B (before Signatory Page).
T2	B	I	Table I-1	Part B Instructions	Incomplete	Include all changes for which modifications are requested.	See **Attachment 2** which provides a replacement for Table I-1.
T3	B	V.A	Page 3 & Overall Facility Map		Inconsistent	Explain why southwest portion of the facility was not surrounded by fencing on the facility map.	Southwest portion of facility is surrounded by fencing. Overall Facility Plan revised to show fence at questioned point. See **Attachment 3** which provides a replacement for the Overall Facility Plan in the application's Parts A (i.e., in associated Attachment C) & B.
T4	B	V.A	Overall Facility Plan		Incomplete	Depict proposed units, chemical treatment tank, R-2 and cylinder unit 2 at warehouse III and explain why Class 2 dumpster (NOR #2) is shown at 2 locations.	Proposed units R-2 and cylinder unit 2 removed from permit application – i.e., will not be constructed. 2nd dumpster location revised as NOR #037. See **Attachment 3** which provides a replacement for the Overall Facility Plan in the application's Parts A & B.

[1] Deficiency ID – Key: A#=Administrative deficiency (ex. A12); T#=Technical deficiency relating to Sections I-X and Sections XII-XIII of the Part B application (ex. T10); C#=Comment only (ex. C1); CP#=Technical deficiency relating to Section XI-Compliance Plan of the Part B application (ex. CP14); Number in parenthesis (*n*) = *n*th instance of same deficiency (ex. T1(2) is the second instance of deficiency T1 originally identified in previous NOD).

[2] Location of deficiency in submittal/application. Items in square brackets [ ] refer to applicant's supplemental information submitted as attachments to the application form.

[3] Possible Error Types: Ambiguous, Incomplete, Inconsistent, Incorrect, Omitted, Typo, or Format.

T5	B	V.A	Other Maps (Plot, Traffic, and Topo)		Incomplete	Correct scale & depict proposed outdoor container storage area, chemical treatment tank (R-2) and cylinder release unit 2 at warehouse III as stated in Section V.K (page V.K.ii-4).	Proposed units R-2 and cylinder unit 2 removed from permit – will not be constructed. Outdoor Bulk Storage Area added to the Plot Plan and Site Plan Facility Traffic Patterns. New Topographic Site Plans drafted for ANOD response revised accordingly. See **Attachment 4** which provides replacements for the Plot Plan and Site Plan Facility Traffic Patterns as well as the new and revised Topographic Site Plans.
T6	B	V.A	Page 7	30 TAC 305.149	Incomplete	Specify construction schedule for outdoor container storage area.	See **Attachment 5** which provides a replacement for Page 7 in V.A.
T7	B	V.A	Table V.A		Incomplete	Include capacity unit and revise capacity for chemical reactor tank R-1 (NOR No. 26) to match with Engineering Report R-1 (page V.C.i-2). Additionally, include storage area dimensions for bulk container storage area (NOR No. 33) in unit description and capacities for cylinder release units 1 and 2.	See **Attachment 6** which provides a replacement for Table V.A.
T8	B	V.B.iv	Page 2	40 CFR 270.14	Incomplete	Provide design or proposed construction details for outdoor container storage area as stated.	See **Attachment 7** which provides a replacement for Page V.B.iv-2.
T9	B	V.C.iii		40 CFR 270.14	Incomplete	Provide design/engineering plan for proposed chemical reactor tanks R-2 & R-1A and include information in tank shell thickness summary table for R-2 (page 6).	Proposed increase for R-1A and proposed units R-2 and cylinder unit 2 removed from permit application – i.e., will not be constructed. Remove entire Section V.C.iii from the application.

T10	B	V.C & V.K		30 TAC 305.149	Incomplete	Provide construction schedule for proposed units (R-2 and Cylinder 2) and replacement information for Reaction Tank R-1A.	Proposed increase for R-1A and proposed units R-2 and cylinder unit 2 removed from permit application – i.e., will not be constructed. Remove Sections V.C.iii and V.K.ii from the application and replace Pages V.C.ii-2 and V.C.ii-15 as well as Tables V.C and V.K with those herein **Attachment 8**.
T11	B	V.K		40 CFR 270.14	Incomplete	Provide specifications for cylinder release units.	See **Attachment 8** which provides a replacement for Table V.K.
T12	B	V.B	Drawings (67LT-7200-501 & 502)		Inconsistent	Warehouse II dimensions (76x189) with Tables V.A & V.B.	See **Attachment 9** which provides a replacement for Table V.B.
T13	B	V.B	Table V.B & Page V.B.iv-2		Inconsistent	Capacity (18775 gallons) for outdoor Container Storage Area (NOR No. 033) with Table V.A.	See **Attachment 9** which provide a replacement for Table V.B. See **Attachment 7** which provides a replacement for Page V.B.iv-2.
T14	B	V.B	Table V.B		Incomplete	Add footnote for superscripts and ignitable waste for CSA 1 & 2 that was mentioned on pages V.B.i-2 and ii-2.	See **Attachment 9** which provides a replacement for Table V.B.
T15	B	V.K	Table V.K		Incomplete	Include capacity and dimensions.	See **Attachment 8** which includes a replacement for Table V.K.
T16	B	VII.A	Table VII.A		Incomplete	Add footnote and correct methods of decontamination for waste treatment tanks and miscellaneous area.	See **Attachment 10** which provides a replacement for Table VII.A.
T17	B	VII.A	Page VII.A-7		Incorrect	Correct company name.	See **Attachment 11** which provides a replacement for Page VII.A-4 (as discussed Page VII.A-7 was not the subject of this TNOD).

T18	B	VII	Sections 3.0 & 4.0 and Table VII.D	Technical Guideline No. 10	Incomplete	Include all active and proposed SWMUs in closure plan, complete closure cost estimate for cylinder release units 1 & 2 and proposed R-1A. Update Tables VII.D. and VII.E.1 as necessary.	Proposed increase for R-1A and proposed units R-2 and cylinder unit 2 removed from permit application – i.e., will not be constructed. See **Attachment 12** which provides replacements for Page VII.A-15, Table VII.B (Table VII.D is reserved) Pages VII.B.1-4 through VII.B.1-6 and Table VII.E.1.
FA1	B	VIII	Section VIII	30 TAC 305.50(a)(4)	Incomplete	In order to provide evidence of your company's financial capability, you will need to complete the Financial Disclosure Letter relating to permit renewals located towards the end of the information packet (attached). Please contact the TCEQ Financial Assurance Unit to ensure that proper documentation demonstrating compliance with the financial capability requirement is provided.	The required Financial Disclosure Statement was/is included in the 5/29/2020 permit application. Please refer to Attachment VIII.B.1 in Section VIII. of the application.

ID[1]	App. Part	App. Section	Location[2]	Citation	Error Type[3]	Deficiency Description/Resolution	Facility Response
T19	B	III.D.1.	Page III.D-26 through III.D-30, Section III		Incomplete	Revise the Table to include a heading.	See **Attachment 13** which provides replacements for Page III.D-26 through III.D-30 for Table III.D.
T20	B	IV.A.~.	Page IV.A-1, Section IV	305.50(a)(9)	Omitted	Revise to N/A: Table IV.A. is for either a new facility or capacity expansion. Any expansion would be processed as a separate Class 3 Modification.	See **Attachment 14** which provides Table IV.A marked N/A.
T21	B	IV.B.	Page IV.B-1, Section IV	335.501-335.515; 261.21-261.24; 261.30-261.33	Comment Only	The first 6 rows in the table are redundant and not needed; consider removing them.	See **Attachment 15** which provides replacements for Page IV.B-1 of Table IV.B.

[1] Deficiency ID – Key: A#=Administrative deficiency (ex. A12); T#=Technical deficiency relating to Sections I-X and Sections XII-XIII of the Part B application (ex. T10); C#=Comment only (ex. C1); CP#=Technical deficiency relating to Section XI-Compliance Plan of the Part B application (ex. CP14); Number in parenthesis (*n*) = *n*th instance of same deficiency (ex. T1(2) is the second instance of deficiency T1 originally identified in previous NOD).

[2] Location of deficiency in submittal/application. Items in square brackets [ ] refer to applicant's supplemental information submitted as attachments to the application form.

[3] Possible Error Types: Ambiguous, Incomplete, Inconsistent, Incorrect, Omitted, Typo, or Format.

T22	B	IV.C.	Page IV.C-1, Section IV	264.13(a), (b)(1-4), and (c)(2); 261 Appendix I; 261 Appendix II; 261 Appendix III; or any sampling method approved by EPA; 264.13(b)(5-8)	Comment Only	Use footnotes for the short explanations added to various rows/columns. The explanations are redundant and distract from the sampling location, method, and parameters; example "See WAP . . .Certain test methods have been modified as indicated in the WAP" & "These are the primary sampling locations only." etc.	See **Attachment 16** which provides a replacement for Page IV.C-1 of Table IV.C.
							See **Attachment 17** for a replacement Table III-2, Attachment D cover and associated Photos 13-15 (i.e., now Photos 13-14) in the application's Part A.
							See **Attachment 18** for a replacement signatory page for the subject permit application's Part A.
							See **Attachment 19** for a replacement signatory page for the subject permit application's Part B.
							See **Attachment 20** the facility's letter of request to remove a proposed WMU and upgrade to an existing WMU to be inserted into Section V.

Attachment 1

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided.)*

☐ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 603661844		RN 102949021

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	05/29/2020

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Clean Harbors La Porte, LLC	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0010068906	10426989991	481263744	1577936

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees ☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated? ☐ Yes ☒ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator

☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:	500 Independence Parkway South						
	City: La Porte	State: TX	ZIP: 77571	ZIP + 4: 9768			

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(281) 884-5500	5519	( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Clean Harbors La Porte

23. Street Address of the Regulated Entity: *(No PO Boxes)*	500 Independence Parkway South							
	City	La Porte	**State**	TX	**ZIP**	77571	**ZIP + 4**	9768
24. County	Harris							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	500 Independence Parkway South				
26. Nearest City			**State**	**Nearest ZIP Code**	
La Porte			TX	77571	
27. Latitude (N) In Decimal:		**28. Longitude (W) In Decimal:**			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	42	24.30	95	05	28.70

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4953	4226	562211	493110

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Hazardous/non-hazardous/biomedical waste transfer/consolidation/storage/treatment & distribution center

34. Mailing Address:	**500 Independence Parkway South**							
	City	**La Porte**	**State**	**TX**	**ZIP**	**77571**	**ZIP + 4**	**9768**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 884-5500	5519	( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☒ Industrial Hazardous Waste
				50225
☒ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☒ PWS
50225	PRB - Multiple			1012759
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☒ Used Oil
				A85635
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
				TXD982290140

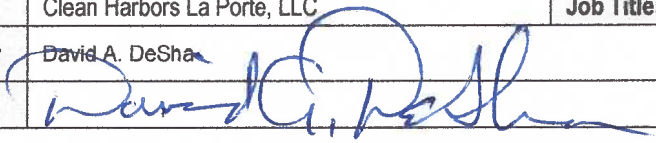
SECTION IV: Preparer Information

40. Name:	David DeSha	**41. Title:**	Sr. Environmental Compliance Mgr

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(423) 413-1218		( ) -	desha.david@cleanharbors.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Clean Harbors La Porte, LLC	**Job Title:**	Sr. Environmental Compliance Manager
Name *(In Print):*	David A. DeSha	**Phone:**	(423) 413-1218
Signature:		**Date:**	8/21/2020

Attachment 2

Permit No. 50225

Permittee: Clean Harbors La Porte, LLC

Table I.1-Description of Proposed Application Changes

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
Application Parts A and B as well as supporting documentation	Updates for all Sections for current renewal date. Revisions to applicable Sections for: • The removal of permitted but not constructed waste management unit Cylinder Release Unit 2 (Permit Unit #028, NOR #032; and • The removal of proposed 1500 gallon replacement for Tank R-1A (Permit Unit #025, NOR #027 but retain the currently permitted/installed 500 gallon Tank R-1A. ~~Updates and corrections only for renewal application – i.e., no changes to permitted hazardous waste management units~~	Renewal/Minor Amendment	30 TAC §305.42, 305 Subchapter D

Formatted: Indent: Left: 0", Right: 0", Line spacing: single

Formatted: Font color: Custom Color(RGB(1,2,2))

Table I.1-Description of Proposed Application Changes

Permit/Compliance Plan Application Appendix/Section	Brief Description of Proposed Change	Modification or Amendment Type	Supporting Regulatory Citation
Application Parts A and B as well as supporting documentation	Updates for all Sections for current renewal date. Revisions to applicable Sections for: • The removal of permitted but not constructed waste management unit Cylinder Release Unit 2 (Permit Unit #028, NOR #032; and • The removal of proposed 1500 gallon replacement for Tank R-1A (Permit Unit #025, NOR #027 but retain the currently permitted/installed 500 gallon Tank R-1A.	Renewal/Minor Amendment	30 TAC §305.42, 305 Subchapter D

Attachment 3

N

GATE
18" CMP
24" CMP
ROAD
FIREWATER TANK
PUMP HOUSE
SWALE
FACILITY BOUNDARY
10 DAY TRANSFER AREA (180'x250')
NON RCRA NEUTRALIZATION TANK 2 NOR# 031
LOADING DOCK
WAREHOUSE I CONTAINER STORAGE AREA NOR# 001
CONC. AREA
TECHNICAL BUILDING
CONC. AREA
MAINTENANCE SHED
CLASS 2 DUMPSTER NOR# 037
LOADING DOCK
CYLINDER ROOM
REACTOR R-1 NOR# 026
CARBON SCRUBBER
REACTOR R-1A NOR# 027
CYLINDER RELEASE UNIT NOR# 028
SATELLITE ACCUMULATION AREA PPE
SATELLITE ACCUMULATION AREA AEROSOLS
NEUTRALIZATION TANK NOR# 030
GUARD HOUSE
4' CONC. WALK
STEEL PLATFORM
WATER WELL
GREATER THAN 50' BUFFER
OFFICES
ISLAND
CONC. AREA
PARKING
FIREWATER LINE
2-12" CMPS
PROPOSED BULK STORAGE PAD (110'x150') NOR# 033
CLASS 1 INDUSTRIAL WASTE ROLL-OFF BIN NOR# 029
FOAM HOUSE
ROAD
24" CMP
CONCRETE PAVEMENT
MIX TUB/ SHREDDER NOR# 034
WAREHOUSE III CONTAINER STORAGE AREA NOR# 004
LOADING DOCK
OVERHANG
CONCRETE PAVEMENT
SATELLITE ACCUMULATION AREA PPE
SATELLITE ACCUMULATION AREA AEROSOLS
CLASS 2 DUMPSTER NOR# 002
ER/MAINTENANCE SHED
GRAVEL AREA
SWALE
FACILITY BOUNDARY
EXISTING DRAINAGE DITCH
10 DAY TRANSFER AREA
MIX TUB 2 NOR# 035
CONTAINMENT AREA
FIREWATER COLLECTION BASIN
WAREHOUSE II CONTAINER STORAGE AREA NOR# 003
OFFICE
GRAVEL & ASPHALT AREA
WATER WELL
PARKING
PAVED AREA
GREATER THAN 50' BUFFER
NEW GATE
2-24" RCP
24" RCP
(3) 24" RCP
2 - 24" RCP
INDEPENDENCE PARKWAY SOUTH (S.H.134)
CURVED ACCESS FEEDER ROAD

North
0 50 100
FEET

STATE OF TEXAS
J. W. CALDWELL
94038
LICENSED
PROFESSIONAL ENGINEER
08/21/20

NOTE:
DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST. SEE TOPOGRAPHIC MAP (ATTACHMENT V, A .2 IN PART B) FOR ACCURATE RENDITION OF FEATURES AND PROPERTY LINES.

LEGEND
- FACILITY PROPERTY BOUNDARY
- CHAIN LINK FENCE
- BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS

TITLE	DRAWING NO.

REV.	DESCRIPTION OF ISSUE	BY/R.	CHECKED	CONSULTED	APPROVED	DATE	EST. NO.
13	ADDED MISSING SECTION OF FENCE	KMC				D.A.D. 8/19/20	
12	PERMIT RENEWAL 2020	KMC				D.A.D. 5/7/20	
11	ADDED NOR#34 & NOR#35	KMC		S.J.V.		D.A.D. 2/20/17	
10	CLASS I MODIFICATION	KMC				BR 3/21/14	
9	FENCE LINE MODIFICATION	KMC				BR 10/8/13	
8	CLASS II MODIFICATION	KMC				B.R. 2/15/13	
7	REMOVED "PROPOSED NOR# 032"	KMC				BR 8/10/12	
6	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031	KMC				MC 12/29/09	

CleanHarbors®
LAPORTE
500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7600

TITLE:
OVERALL FACILITY PLAN

FILE: 30701101

APPROVED:	SCALE:	DWG. NO.:	REV.
R.A.H.	1 = 50	403-01A	13

Attachment 4

N

PB-1

GATE

18" CMP

24" CMP

ROAD

2-12" CMPS

PROPOSED BULK STORAGE PAD (110'x150') NOR# 033

FACILITY BOUNDARY

FIREWATER TANK

PUMP HOUSE

ROAD

DIESEL TANK

TRAILER

TECHNICAL BUILDING

CONC. AREA

CONC. AREA

10 DAY TRANSFER AREA

CLASS 1 INDUSTRIAL WASTE ROLL-OFF BIN NOR# 029

MAINTENANCE SHED

CLASS 2 DUMPSTER NOR# 037

CONTAINMENT AREA

LOADING DOCK

CYLINDER ROOM

FOAM HOUSE

ROAD

10 DAY TRANSFER AREA (180'x250')

SWALE

REACTOR R-1 NOR# 026

CARBON SCRUBBER

REACTOR R-1A NOR# 027

24" CMP

NON RCRA NEUTRALIZATION TANK 2 NOR# 031

CYLINDER RELEASE UNIT NOR# 028

ECS-1

FACILITY BOUNDARY

WAREHOUSE I CONTAINER STORAGE AREA NOR# 001

NEUTRALIZATION TANK 1 NOR# 030

LOADING DOCK

4' CONC. WALK

GUARD HOUSE

CONCRETE PAVEMENT

WAREHOUSE III CONTAINER STORAGE AREA NOR# 004

LOADING DOCK

OVERHANG

CONCRETE PAVEMENT

GRAVEL AREA

SWALE

2-24" RCP

STEEL PLATFORM

FIREWATER LINE

CLASS 2 DUMPSTER NOR# 002

BM-1

ER/MAINTENANCE SHED

PB-2

WATER WELL

GREATER THAN 50' BUFFER

OFFICES

ISLAND

CONC. AREA

PARKING

FIREWATER COLLECTION BASIN

WAREHOUSE II CONTAINER STORAGE AREA NOR# 003

OFFICE

GRAVEL & ASPHALT AREA

24" RCP

(3) 24" RCP

WATER WELL

PARKING

PAVED AREA

GREATER THAN 50' BUFFER

INDEPENDENCE PARKWAY SOUTH (S.H.134)

2 - 24" RCP

NEW GATE

PB-3

CURVED ACCESS FEEDER ROAD

North

0 50 100

FEET

STATE OF TEXAS
J. W. CALDWELL
94038
LICENSED
PROFESSIONAL ENGINEER
08/21/20

NOTE:

DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST. SEE TOPOGRAPHIC MAP (ATTACHMENT V. A .2 IN PART B) FOR ACCURATE RENDITION OF FEATURES AND PROPERTY LINES.

U.T.M. COORDINATES

PT.	DESCRIPTION	NORTHING	EASTING
BM-1	BENCHMARK	3287746.2963	297667.5858
PB-1	PROPERTY BOUNDARY	3287729.7414	297826.2394
PB-2	PROPERTY BOUNDARY	3287731.5809	297658.5455
PB-3	PROPERTY BOUNDARY	3287803.3003	297596.3458
ECS-1	TANKER LOADING	3288099.79	297751.54

LEGEND

- FACILITY PROPERTY BOUNDARY
- CHAIN LINK FENCE
- BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

REFERENCE DRAWINGS	
TITLE	DRAWING NO.

REV.	DESCRIPTION OF ISSUE	BY	CHECKED	CONSULTED	APPROVED	DATE	EST. NO.
E	ADDED MISSING SECTION OF FENCE & PROPOSED BULK STORAGE PAD	KMC			DAD	8/19/20	
D	PERMIT RENEWAL 2020	KMC			DAD	5/7/20	
C	REMOVED "PROPOSED NOR# 032"	KMC			BR	8/10/12	
B	REMOVED "PROPOSED" FRON NOR# 030, ADDED NOR# 029 & NOR# 031	KMC			MC	12/29/09	
A	FOR PERMIT RENEWAL	KMC			MAR	7/30/09	

CleanHarbors LAPORTE

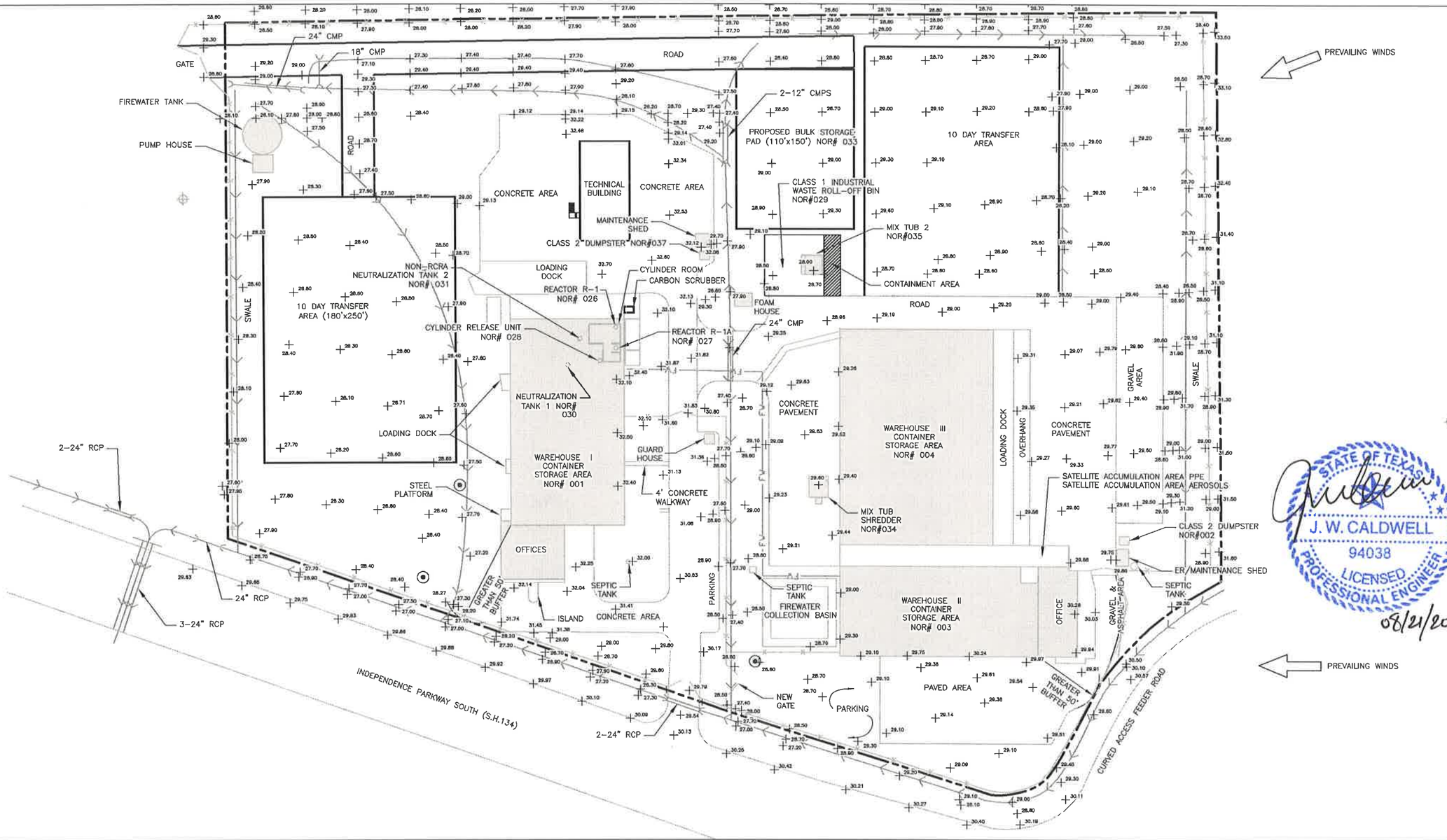
500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7600

TITLE:

PLOT PLAN

FILE: 67LT-1000-001

APPROVED:	SCALE:	DWG. NO.:	REV.
	1 = 50	67LT-1000-001	E



STATE OF TEXAS
J. W. CALDWELL
94038
LICENSED
PROFESSIONAL ENGINEER
08/21/20

NOTES:

1. DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST.
2. SURROUNDING LAND USE IS INDUSTRIAL TO 2000 FEET.
3. NEAREST 100 YEAR FLOOD PLAIN IS APPROXIMATELY 1 MILE FROM SITE.
4. SEE THE OVERALL FACILITY PLAN +1000 FEET FOR CONTOUR LINES.

EXPLANATION

- + 30.10 SPOT ELEVATION
- ON-SITE WATER WELL LOCATION
- OFF-SITE WATER WELL LOCATION
- FACILITY PROPERTY BOUNDARY
- CHAIN LINK FENCE
- DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION
- EXISTING AND PROPOSED AREAS
- BUILDING OR OTHER STRUCTURE

N

0 100'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE V.A.2.I

TOPOGRAPHIC SITE MAP

CLEAN HARBORS LA PORTE, LLC
500 INDEPENDENCE PARKWAY
LA PORTE, TEXAS

Drawn By: REP	Checked By: MM	Scale: 1" = 100'	Date: 8/19/20	File: 69V-SITEPLAN

C:\DRAWINGS\COLUMBIA, SC OCTOBER 2018 DRAWINGS\CHESI FACILITIES\CHESI FACILITY DWGS\LA PORTE, TX\APRIL 2020 UPDATED DRAWINGS\69V-SITEPLAN

N

GATE

18" CMP

24" CMP

ROAD

2-12" CMPS

PROPOSED BULK STORAGE PAD (110'x150') NOR# 033

EXISTING DRAINAGE DITCH

FACILITY BOUNDARY

FIREWATER TANK

PUMP HOUSE

ROAD

10 DAY TRANSFER AREA

CONC. AREA

TECHNICAL BUILDING

CONC. AREA

CLASS 1 INDUSTRIAL WASTE ROLL-OFF BIN NOR# 029

CLASS 2 DUMPSTER NOR# 037

MAINTENANCE SHED

CYLINDER ROOM

LOADING DOCK

FOAM HOUSE

CONTAINMENT AREA

10 DAY TRANSFER AREA (180'x250')

REACTOR R-1 NOR# 026

CARBON SCRUBBER

REACTOR R-1A NOR# 027

ROAD

SWALE

NON RCRA NEUTRALIZATION TANK 2 NOR# 031

24" CMP

CYLINDER RELEASE UNIT NOR# 028

FACILITY BOUNDARY

WAREHOUSE I CONTAINER STORAGE AREA NOR# 001

NEUTRALIZATION TANK 1 NOR# 030

LOADING DOCK

GUARD HOUSE

CONCRETE PAVEMENT

WAREHOUSE III CONTAINER STORAGE AREA NOR# 004

LOADING DOCK

OVERHANG

CONCRETE PAVEMENT

GRAVEL AREA

SWALE

2-24" RCP

4" CONC. WALK

FIREWATER LINE

STEEL PLATFORM

CLASS 2 DUMPSTER NOR# 002

ER/MAINTENANCE SHED

24" RCP

WATER WELL

GREATER THAN 50' BUFFER

OFFICES

PARKING

(3) 24" RCP

ISLAND

CONC. AREA

FIREWATER COLLECTION BASIN

WAREHOUSE II CONTAINER STORAGE AREA NOR# 003

OFFICE

GRAVEL & ASPHALT AREA

WATER WELL

PARKING

PAVED AREA

GREATER THAN 50' BUFFER

INDEPENDENCE PARKWAY SOUTH (S.H.134)

2 - 24" RCP

NEW GATE

CURVED ACCESS FEEDER ROAD

North

0 50 100

FEET

NOTE:
DRAWING WAS RECREATED BY DIGITIZING PREVIOUS FACILITY DRAWING OF SAME INFORMATION. SOME DEVIATIONS FROM ACTUAL FEATURE LOCATIONS AND MEASURED DISTANCES MAY EXIST. SEE TOPOGRAPHIC MAP (ATTACHMENT V, A .2 IN PART B) FOR ACCURATE RENDITION OF FEATURES AND PROPERTY LINES.

LEGEND

- FACILITY PROPERTY BOUNDARY
- CHAIN LINK FENCE
- BOUNDARY OF EXISTING CONTAINER STORAGE AREAS
- DRAINAGE CHANNEL FLOWLINE AND FLOW DIRECTION

STATE OF TEXAS
J. W. CALDWELL
94038
LICENSED PROFESSIONAL ENGINEER
08/21/20

REFERENCE DRAWINGS	
TITLE	DRAWING NO.

REV.	DESCRIPTION OF ISSUE	BY	CHECKED	CONSULTED	APPROVED	DATE	EST. NO.
11	ADDED MISSING SECTION OF FENCE & PROPOSED BULK STORAGE PAD	KMC			DAD	8/19/20	
10	PERMIT RENEWAL 2020	KMC			DAD	5/7/20	
9	CLASS 1 MODIFICATION	KMC			BR	3/21/14	
8	FENCE LINE MODIFICATION	KMC			BR	10/8/13	
7	REMOVED "PROPOSED NOR# 032"	KMC			BR	8/10/12	
6	REMOVED "PROPOSED" FROM NOR# 030, ADDED NOR# 029 & NOR# 031	KMC			MC	12/29/09	
5	REVISED ADDRESS, REMOVED ADJACENT PROPERTY INFORMATION & ADDED NOR #'S	KMC			MAR	7/30/09	

CleanHarbors®
LAPORTE
500 Independence Parkway South
LaPorte, Texas 77571
Phone: (281) 727-7600

TITLE:
SITE PLAN
FACILITY TRAFFIC PATTERNS

FILE: 403-01E

APPROVED:	SCALE:	DWG. NO.:	REV.
R.A.H.	1 = 50	403-01E	11

Attachment 5

CONSTRUCTION SCHEDULE

Construction Schedule for Addition of Outdoor storage area Outdoor 033

- Project start date – Day 0
- Submit bid specifications for unit – ~30 days from project start date
- Review bids and select contractor – ~30 days from date bids are received
- Start construction – ~30 days from date of contractor selection
- Construction completion – ~30 days from construction start date

Total Time - ~120 days (weather permitting)

~~Submit specifications for unit – Approval plus 0 month~~

~~Choose contractor – Approval plus 0 months Installation – Approval plus 2 months Completion – Approval plus 2 months~~

CONSTRUCTION SCHEDULE

Construction Schedule for Bulk Container Storage Area (NOR # 033)

- Project start date – Day 0
- Submit bid specifications for unit – ~30 days from project start date
- Review bids and select contractor – ~30 days from date bids are received
- Start construction – ~30 days from date of contractor selection
- Construction completion – ~30 days from construction start date

Total Time - ~120 days (weather permitting)

Attachment 6

Table V.A. - Facility Waste Management Handling Units

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
1	Container Storage Area I (Warehouse I)	001	202' x 109' covered storage area	403,960 gallons	Active
2	Container Storage Area II (Warehouse II)	003	~~188'~~ 189' x 76' covered storage area	264,970 gallons	Active
3	Container Storage Area III (Warehouse III)	004	209' x 142' covered storage area	395, 340 gallons	Active
4	Tank VS-593-1001	005	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
5	Tank VS-593-1002	006	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
6	Tank VS-593-2001	007	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
7	Tank VS-593-2002	008	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
8	Tank VS-593-2003	009	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
9	Tank VS-593-2004	010	Storage Tank	22,500 gallons	Never Built and No Longer Permitted

Formatted: Font: 11 pt

Formatted: Normal, Indent: Left: 0", Right: 0"

Formatted: Normal, Right, Indent: Left: 0", Right: 0"

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
10	Tank VS-593-2005	011	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
11	Tank VS-593-3001	012	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
12	Tank VS-593-3002	013	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
13	Tank VS-593-3003	014	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
14	Tank VS-593-2101	015	Storage Tank	1,300 gallons	Never Built and No Longer Permitted
15	Tank VS-593-3101	016	Processing Tank	1,300 gallons	Never Built and No Longer Permitted
16	Tank VS-593-2006	017	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
17	Tank VS-593-2007	018	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
18	Tank VS-593-3004	019	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
19	Tank VS-593-3005	020	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
20	Tank VS-593-6101	021	Processing Tank	100 gallons	Never Built and No Longer Permitted

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
21	Tank VS-593-4001	022	Storage Tank	5,100 gallons	Never Built and No Longer Permitted
22	Solids Shredder & Compactor	023	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
23	Drum Washer	024	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
24	Chemical Reactor Tank R-1	026	Processing Tank located inside Warehouse I	~~500~~200 gallons	Active
25	Chemical Reactor Tank R-1A	027	Processing Tank located inside Warehouse I (Replacement Processing Tank to be located inside Warehouse I)	500 gallons (Proposed 1,500 gallons)	~~Active~~ Never Built and No Longer Permitted ~~(Proposed)~~
26	Cylinder Release Unit 1	028	Miscellaneous Unit, located inside Warehouse I	19,800 Cubic Ft per hour~~N.A.~~	Active
28	Cylinder Release Unit 2	032	Miscellaneous Unit, located inside Warehouse III	N.A.	Never Built and No Longer Permitted ~~Proposed~~
033	Bulk Container Storage Area	033	110'x150' Bulk Outdoor Container Storage Area	181,777 gallons (28 roll-off boxes)	Proposed
~~027~~	~~Chemical Reactor Tank R-2~~	~~030~~	~~Processing Tank located inside Warehouse I~~	~~500~~	~~Proposed~~

Formatted: No Spacing, Indent: Left: 0", First line: 0", Right: 0", Space Before: 0 pt, Line spacing: single

Formatted: Right: 0"

1. Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.

2. Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

3. If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.

Table V.A. - Facility Waste Management Handling Units

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
1	Container Storage Area I (Warehouse I)	001	202' x 109' covered storage area	403,960 gallons	Active
2	Container Storage Area II (Warehouse II)	003	189' x 76' covered storage area	264,970 gallons	Active
3	Container Storage Area III (Warehouse III)	004	209' x 142' covered storage area	395, 340 gallons	Active
4	Tank VS-593-1001	005	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
5	Tank VS-593-1002	006	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
6	Tank VS-593-2001	007	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
7	Tank VS-593-2002	008	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
8	Tank VS-593-2003	009	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
9	Tank VS-593-2004	010	Storage Tank	22,500 gallons	Never Built and No Longer Permitted

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
10	Tank VS-593-2005	011	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
11	Tank VS-593-3001	012	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
12	Tank VS-593-3002	013	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
13	Tank VS-593-3003	014	Storage Tank	22,500 gallons	Never Built and No Longer Permitted
14	Tank VS-593-2101	015	Storage Tank	1,300 gallons	Never Built and No Longer Permitted
15	Tank VS-593-3101	016	Processing Tank	1,300 gallons	Never Built and No Longer Permitted
16	Tank VS-593-2006	017	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
17	Tank VS-593-2007	018	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
18	Tank VS-593-3004	019	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
19	Tank VS-593-3005	020	Storage Tank	8,500 gallons	Never Built and No Longer Permitted
20	Tank VS-593-6101	021	Processing Tank	100 gallons	Never Built and No Longer Permitted

TCEQ Permit Unit No. [1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
21	Tank VS-593-4001	022	Storage Tank	5,100 gallons	Never Built and No Longer Permitted
22	Solids Shredder & Compactor	023	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
23	Drum Washer	024	Miscellaneous Unit	To Be Determined	Never Built and No Longer Permitted
24	Chemical Reactor Tank R-1	026	Processing Tank located inside Warehouse I	200 gallons	Active
25	Chemical Reactor Tank R-1A	027	Processing Tank located inside Warehouse I (Replacement Processing Tank to be located inside Warehouse I)	500 gallons (Proposed 1,500 gallons)	Active Never Built and No Longer Permitted
26	Cylinder Release Unit 1	028	Miscellaneous Unit, located inside Warehouse I	19,800 Cubic Ft per hour	Active
28	Cylinder Release Unit 2	032	Miscellaneous Unit, located inside Warehouse III	N.A.	Never Built and No Longer Permitted
033	Bulk Container Storage Area	033	110'x150' Bulk Outdoor Container Storage Area	181,777 gallons (28 roll-off boxes)	Proposed

1. Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.

2. Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.

3. If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.

Attachment 7

ENGINEERING REPORT - ~~CONTAINER STORAGE AREA 4~~BULK CONTAINER STORAGE AREA

GENERAL INFORMATION

This Engineering Report contains details specific to Container Storage Area 4 (TCEQ unit 033, NOR 033) of the Clean Harbors LaPorte, LLC facility. For additional details on this unit see: Current Site Plan included in the General Engineering Report (Appendix V.A of the Part B application); Tables V.A and V.B of Part B application.

Container Storage Area 4 (Outdoor Storage 033) is proposed to be constructed east of Container Storage Area 3. This unit was permitted on January 7, 2016 as a Class 2 Permit Modification based on an initial submittal in June 2015 and revisions through December 2015. The container storage area is a proposed outdoor container storage pad used to store bulk storage container bins that will be constructed with containment to accommodate thirty cubic yard units. The proposed unit is permitted to store waste with no free liquids. The area will mirror all storage conditions and requirements of the previously permitted storage areas but will not have a roof. Area will be 150' x 110'. Existing area will be graded as needed. Area will be rolled after grade is established. A layer of geo fabric will be laid out. 8" of cement crushed concrete will be brought in, leveled out and rolled. After that, 8" of 3000 PSI concrete will be poured on top with #4 rebar on 12" centers each way. In the north east corner, a 4' x 4' catch basin will be installed with a 2" drain pipe and valve outside of new slab. On the front side a slight ramp will be poured and a 6" x 6" curb will be poured on the remainder three sides~~The approximate dimensions of Outdoor Storage 033 are 110 feet wide by 150 feet long.~~

Formatted: Font: Not Italic

The storage and staging area will have concrete bases with floors that have been sealed with an epoxy coating. The proposed perimeter curbs are a minimum of 6 inch high reinforced concrete. Either a gently sloped concrete berm or metal ramp is provided for safe movement of container handling equipment over the curbs. between the subdivided areas within each container storage and staging areas. The Overall Facility Plan attached to the General Engineering Report (Appendix V.A) shows proposed construction details for Outdoor Storage 033 (i.e., curbs, dimensions).

Outdoor Storage 033 is located outside a 100 year flood plain (see FEMA Map attached to Section II.F) and is more than 15 meters (50 ft) from the property line as required by 40 CFR 264.176 (see the Overall Facility Plan attached to Appendix V.A). Final design details are pending construction..

As shown on Table V.B of the Part B application, Outdoor Storage 033 is designed to store 181,~~775~~ 777 gallons (3,305 55-gallon drum equivalents) in DOT containers that contain a wide variety of organic and inorganic wastes including wastes that maybe ignitable, reactive or incompatible. No free liquids are to be stored in Outdoor Storage 033. Specific waste numbers are found on Table IV.B and Table V.B of the Part B application.

The remaining sections below are structured based on the requirements of 40 CFR

264.171-264.173 and 264.175-264.177. The information outlined in 40 CFR 270.15 is

ENGINEERING REPORT - BULK CONTAINER STORAGE AREA

GENERAL INFORMATION

This Engineering Report contains details specific to Container Storage Area 4 (TCEQ unit 033, NOR 033) of the Clean Harbors LaPorte, LLC facility. For additional details on this unit see: Current Site Plan included in the General Engineering Report (Appendix V.A of the Part B application); Tables V.A and V.B of Part B application.

Container Storage Area 4 (Outdoor Storage 033) is proposed to be constructed east of Container Storage Area 3. This unit was permitted on January 7, 2016 as a Class 2 Permit Modification based on an initial submittal in June 2015 and revisions through December 2015. The container storage area is a proposed outdoor container storage pad used to store bulk storage container bins that will be constructed with containment to accommodate thirty cubic yard units. The proposed unit is permitted to store waste with no free liquids. The area will mirror all storage conditions and requirements of the previously permitted storage areas but will not have a roof. Area will be 150' x 110'. Existing area will be graded as needed. Area will be rolled after grade is established. A layer of geo fabric will be laid out. 8" of cement crushed concrete will be brought in, leveled out and rolled. After that, 8" of 3000 PSI concrete will be poured on top with #4 rebar on 12" centers each way. In the north east corner, a 4' x 4' catch basin will be installed with a 2" drain pipe and valve outside of new slab. On the front side a slight ramp will be poured and a 6" x 6" curb will be poured on the remainder three sides.

The storage and staging area will have concrete bases with floors that have been sealed with an epoxy coating. The proposed perimeter curbs are a minimum of 6 inch high reinforced concrete. Either a gently sloped concrete berm or metal ramp is provided for safe movement of container handling equipment over the curbs. between the subdivided areas within each container storage and staging areas. The Overall Facility Plan attached to the General Engineering Report (Appendix V.A) shows proposed construction details for Outdoor Storage 033 (i.e., curbs, dimensions).

Outdoor Storage 033 is located outside a 100 year flood plain (see FEMA Map attached to Section II.F) and is more than 15 meters (50 ft) from the property line as required by 40 CFR 264.176 (see the Overall Facility Plan attached to Appendix V.A). Final design details are pending construction..

As shown on Table V.B of the Part B application, Outdoor Storage 033 is designed to store 181,777 gallons (3,305 55-gallon drum equivalents) in DOT containers that contain a wide variety of organic and inorganic wastes including wastes that maybe ignitable, reactive or incompatible. No free liquids are to be stored in Outdoor Storage 033. Specific waste numbers are found on Table IV.B and Table V.B of the Part B application.

The remaining sections below are structured based on the requirements of 40 CFR 264.171-264.173 and 264.175-264.177. The information outlined in 40 CFR 270.15 is

Attachment 8

ENGINEERING REPORT – R-1A

GENERAL INFORMATION

The drawings listed below are included with this Engineering Report (R-1A) for Clean Harbors LaPorte, LLC.

Drawing No. 6726-M-01
Drawing No. L-201A-PF-001-D
Drawing No. L-201A-PI-001-D

This section provides basic descriptions and specifications for the current permitted tank system (Permitted unit # 025). Chemical Treatment Reactor Tank R-1A described herein is utilized to treat certain wastes received at the facility. The tank is operated independently and in batch-mode and is designed to operate with zero emissions. The tank utilizes a two-stage wet scrubber for potential upset emission control. They contain solutions designed to react with the various wastes and convert them to less toxic byproducts. The solutions contained within the tanks may be acidic, alkaline, oxidizing or reducing depending on the nature of the waste being treated. Once a batch is complete the contents of the tank are drained and placed into containers. The containers are stored in a Container Storage Area until being shipped off-site for disposal

The Table V.C. and the table below list the tank currently permitted and in operation, the current permit unit number and rated capacity and process description. A General description follows.

Reaction Tanks			
Permit Unit No.	**Tank Designation No.**	**Rated Capacity (gallons)**	**Tank Process Description**
025	R-1A	500 ~~**(Proposed 1,500)**~~	Chemical Treatment Reactor Tank

The permitted tank was constructed in accordance with the design requirements of 40 CFR Part 264, Subpart J and has a concrete secondary containment system with a chemical resistant coating. The chemical treatment tank is located in Warehouse I to eliminate the effects of contact with rainfall. Warehouse I secondary containment volume is sufficient to meet the requirements of the unit.

ENGINEERING REPORT – R-1A

GENERAL INFORMATION

The drawings listed below are included with this Engineering Report (R-1A) for Clean Harbors LaPorte, LLC.

Drawing No. 6726-M-01
Drawing No. L-201A-PF-001-D
Drawing No. L-201A-PI-001-D

This section provides basic descriptions and specifications for the current permitted tank system (Permitted unit # 025). Chemical Treatment Reactor Tank R-1A described herein is utilized to treat certain wastes received at the facility. The tank is operated independently and in batch-mode and is designed to operate with zero emissions. The tank utilizes a two-stage wet scrubber for potential upset emission control. They contain solutions designed to react with the various wastes and convert them to less toxic byproducts. The solutions contained within the tanks may be acidic, alkaline, oxidizing or reducing depending on the nature of the waste being treated. Once a batch is complete the contents of the tank are drained and placed into containers. The containers are stored in a Container Storage Area until being shipped off-site for disposal

The Table V.C. and the table below list the tank currently permitted and in operation, the current permit unit number and rated capacity and process description. A General description follows.

Reaction Tanks			
Permit Unit No.	**Tank Designation No.**	**Rated Capacity (gallons)**	**Tank Process Description**
025	R-1A	500	Chemical Treatment Reactor Tank

The permitted tank was constructed in accordance with the design requirements of 40 CFR Part 264, Subpart J and has a concrete secondary containment system with a chemical resistant coating. The chemical treatment tank is located in Warehouse I to eliminate the effects of contact with rainfall. Warehouse I secondary containment volume is sufficient to meet the requirements of the unit.

SECONDARY CONTAINMENT CALCULATIONS

Warehouse I / Container Storage Area 1 in which Tank System R-1A is Located

Calculations from Container Storage Area 1 in Appendix V.B.i

Containment capacity = 20,610 s.f. x 0.5 ft x 0.9 usage factor x 7.48 gal./c.f. = 69,300 gallons

Storage capacity = 10x containment capacity = 693,000 gallons

Rated storage capacity = 403,960 gallons (approximately 7,345 55-gallon drum equivalents) for waste handled in Container Storage Area 1

Tank System R-1A

Tank Systems R-1, and R-1A~~, and R-2~~ are located inside

Warehouse I Tank System R-1 rated capacity = 200 gallons

Tank System R-1A rated capacity = ~~1,500~~500 gallons

~~(proposed) Tank System R2 rated capacity = 500 gallons~~

Combined rated capacity for Container Storage Area 1, Tank System R-1~~,~~ and Tank System R-1A~~, and Tank System R2~~ is:

403,960 gallons + 200 gallons + ~~1,500~~500 gallons ~~+ 500 gallons~~ = ~~406,160~~404,660 gallons

This combined amount is less than the calculated storage capacity for Warehouse I (693,000 gallons) in which these Units reside.

This area is covered with a perimeter berm, so rainfall and run-on do not need to be considered in containment calculations.

SECONDARY CONTAINMENT CALCULATIONS

Warehouse I / Container Storage Area 1 in which Tank System R-1A is Located

Calculations from Container Storage Area 1 in Appendix V.B.i

Containment capacity = 20,610 s.f. x 0.5 ft x 0.9 usage factor x 7.48 gal./c.f. = 69,300 gallons

Storage capacity = 10x containment capacity = 693,000 gallons

Rated storage capacity = 403,960 gallons (approximately 7,345 55-gallon drum equivalents) for waste handled in Container Storage Area 1

Tank System R-1A

Tank Systems R-1, and R-1A are located inside Warehouse I

Tank System R-1 rated capacity = 200 gallons

Tank System R-1A rated capacity = 500 gallons

Combined rated capacity for Container Storage Area 1, Tank System R-1 and Tank System R-1A is:

403,960 gallons + 200 gallons + 500 gallons = 404,660 gallons

This combined amount is less than the calculated storage capacity for Warehouse I (693,000 gallons) in which these Units reside.

This area is covered with a perimeter berm, so rainfall and run-on do not need to be considered in containment calculations.

Table V.C. - Tanks and Tank System

Permit Unit No.	Tank	N.O.R. No.	Storage and/or Processing	Waste Nos.[1]	Rated Capacity	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable, Reactive, or Incompatible waste (state all that apply)
024	R-1	026	Processing	See Table IV.B.2	200 gallons	2.2' by 4.5'	69,300	Ignitable - ~~No~~ Yes Reactive - Yes Incompatible - Yes
025	R-1A	027	Processing	See Table IV.B.2	500 gallons ~~(Proposed 1500 gallons)~~	4.0' by 5.5' ~~(Proposed 6.0' by 8.0')~~	69,300	Ignitable - ~~No~~ Yes Reactive - Yes Incompatible - Yes
~~Proposed 027~~	~~R2~~	~~030~~	~~Processing~~	~~See Table IV.B.2~~	~~500 gallons~~	~~4.0' by 5.0'~~	~~69,300~~	~~Ignitable - Yes Reactive - Yes Incompatible - Yes~~

1 from Table IV.B, first column

Table V.C. - Tanks and Tank System

Permit Unit No.	Tank	N.O.R. No.	Storage and/or Processing	Waste Nos.[1]	Rated Capacity	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable, Reactive, or Incompatible waste (state all that apply)
024	R-1	026	Processing	See Table IV.B.2	200 gallons	2.2' by 4.5'	69,300	Ignitable– Yes Reactive – Yes Incompatible – Yes
025	R-1A	027	Processing	See Table IV.B.2	500 gallons	4.0' by 5.5'	69,300	Ignitable– Yes Reactive – Yes Incompatible – Yes

1 from Table IV.B, first column

Table V.K. - Miscellaneous Units

Permit Unit No.*	Miscellaneous Unit	N.O.R. No.	Storage, Processing, and/or Disposal	Waste Nos.[1]	Rated Capacity	Dimensions	Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)
026	Cylinder Release Unit	028	Processing	See Table IV.B	19,800 Cubic Ft per hour~~N/A~~	Unit is a series of tubing, piping and valves from the cylinder connection to the atmosphere with no capacity to measure regarding storage or possessing – it is direct a release unit.~~N/A~~	Ignitable and Reactive
~~028~~	~~Proposed Cylinder Release Unit 2~~	~~032~~	~~Processing~~	~~See Table IV.B.3~~	~~N/A~~	~~N/A~~	~~Ignitable and Reactive~~

1from Table IV.B, first column

*If the unit is already permitted, use the established "Permit Unit No." If the unit is not yet permitted, the number given here for the unit will become the "Permit Unit No." The numbers should be in an order that will be convenient for the facility operator.

Table V.K. - Miscellaneous Units

Permit Unit No.*	Miscellaneous Unit	N.O.R. No.	Storage, Processing, and/or Disposal	Waste Nos.[1]	Rated Capacity	Dimensions	Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)
026	Cylinder Release Unit	028	Processing	See Table IV.B	19,800 Cubic Ft per hour	Unit is a series of tubing, piping and valves from the cylinder connection to the atmosphere with no capacity to measure regarding storage or possessing – it is direct a release unit.	Ignitable and Reactive

1from Table IV.B, first column

*If the unit is already permitted, use the established "Permit Unit No." If the unit is not yet permitted, the number given here for the unit will become the "Permit Unit No." The numbers should be in an order that will be convenient for the facility operator.

Attachment 9

Table V.B. - Container Storage Area

Permit Unit No.	Container Storage Area	N.O.R. No.	Waste Nos.[4]	Rated Capacity[3]	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable[1], Reactive[1], or Incompatible[2] waste (state all that apply)
001	Warehouse I	001	See Table IV.B	403,960 gallons	202' x 109'	69,300 gallons	Reactive and Incompatible
002	Warehouse II	003	See Table IV.B	264,970 gallons	~~188'~~ 189' x 76'	48,000 gallons	Reactive and Incompatible
003	Warehouse III	004	See Table IV.B	395,340 gallons	209' x 142'	99,800 gallons	Ignitable, Reactive, and Incompatible
033	Outdoor Storage 033	033	See Table IV.B	181,~~775~~77 7 gallons	110' x 150'	NA (no free liquids)	Ignitable, Reactive, and Incompatible

1 Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.
2 Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, or other device.
3 Container Storage Areas need to include in capacity calculations any nonhazardous wastes and universal wastes managed in the unit in addition to hazardous wastes.
4 from Table IV.B, first column

Table V.B. - Container Storage Area

Permit Unit No.	Container Storage Area	N.O.R. No.	Waste Nos.[4]	Rated Capacity[3]	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit will manage Ignitable[1], Reactive[1], or Incompatible[2] waste (state all that apply)
001	Warehouse I	001	See Table IV.B	403,960 gallons	202' x 109'	69,300 gallons	Reactive and Incompatible
002	Warehouse II	003	See Table IV.B	264,970 gallons	189' x 76'	48,000 gallons	Reactive and Incompatible
003	Warehouse III	004	See Table IV.B	395,340 gallons	209' x 142'	99,800 gallons	Ignitable, Reactive, and Incompatible
033	Outdoor Storage 033	033	See Table IV.B	181,777 gallons	110' x 150'	NA (no free liquids)	Ignitable, Reactive, and Incompatible

1 Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.
2 Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, or other device.
3 Container Storage Areas need to include in capacity calculations any nonhazardous wastes and universal wastes managed in the unit in addition to hazardous wastes.
4 from Table IV.B, first column

Attachment 10

Table VII.A. - Unit Closure

For each unit to be permitted, list the facility components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of wastes and waste residues generated during unit closure:

Equipment or HWM Unit	Possible Methods of Decontamination[1]	Possible Methods of Disposal[1]
Warehouse I:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse II:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse III:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal~~Solid Decontamination Waste~~	Incineration, Landfill, Off-site Treatment

Formatted: Centered

Equipment or HWM Unit	Possible Methods of Decontamination[1]	Possible Methods of Disposal[1]
Bulk Container Storage Area:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Waste Treatment Tanks & ancillary equipment:	~~Landfill, Recycling~~	
Waste Liquids	Pump liquids and remove for off-site disposal	Incineration, Landfill, Off-site Treatment
Tank Surfaces (interior and exterior)	Initial rinse followed by hydroblasting	Incineration, Landfill, Off-site Treatment
Secondary Containment Area	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Miscellaneous ~~Areas~~Unit:	~~Incineration, Landfill, Off-site Treatment~~	
~~Drum Staging Areas~~	~~Hydroblasting~~	~~Incineration, Landfill, Off-site Treatment~~
Cylinder Release Units	Disassembly and hydroblasting	Incineration, Landfill, Recycling

1Applicants may list more than one appropriate method.

Formatted: Indent: Left: 0"

Formatted: Centered

Table VII.A. - Unit Closure

For each unit to be permitted, list the facility components to be decontaminated, the possible methods of decontamination, and the possible methods of disposal of wastes and waste residues generated during unit closure:

Equipment or HWM Unit	Possible Methods of Decontamination[1]	Possible Methods of Disposal[1]
Warehouse I:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse II:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Warehouse III:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Container Storage Racks	Disassembly and hydroblasting	Landfill, Recycling
Wooden Pallets	send offsite with containers	Incineration, Landfill, Recycling
Loading/Unloading Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment

Equipment or HWM Unit	Possible Methods of Decontamination[1]	Possible Methods of Disposal[1]
Bulk Container Storage Area:		
Waste Containers	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Secondary Containment Areas	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Waste Treatment Tanks & ancillary equipment:		
Waste Liquids	Pump liquids and remove for off-site disposal	Incineration, Landfill, Off-site Treatment
Tank Surfaces (interior and exterior)	Initial rinse followed by hydroblasting	Incineration, Landfill, Off-site Treatment
Secondary Containment Area	Hydroblasting	Incineration, Landfill, Off-site Treatment
Solid Decontamination Waste	Removal for off-site disposal	Incineration, Landfill, Off-site Treatment
Miscellaneous Unit:		
Cylinder Release Units	Disassembly and hydroblasting	Incineration, Landfill, Recycling

1Applicants may list more than one appropriate method.

Attachment 11

1.0 GENERAL INFORMATION

1.1 General Site Information and Maximum Capacities

Clean Harbors La Porte, ~~LP~~ LLC (Facility), located at 500 Independence Parkway South in La Porte, Texas, operates as commercial hazardous and industrial solid waste transfer and storage facility. The Facility is permitted to receive hazardous waste in containers for storage, bulking, processing or disposal. Hazardous waste is stored on-site in containers, then processed or disposed on-site or shipped off-site for treatment or disposal.

The Facility consists of three container storage areas, two treatment tanks, a cylinder release unit and upon construction one modified waste treatment tank and a second cylinder release unit. Each waste storage and management area is equipped with a secondary containment system designed to contain any leaks or spills and prevent run-on. All waste storage and management areas are covered to protect them from weather and to prevent the accumulation of rainwater. Waste loading and unloading areas are also bermed and covered.

The Facility can store up to 1,064,270 gallons of waste in containers. Waste containers may also be temporarily staged prior to acceptance for storage or shipment off-site for treatment or disposal. The Facility may stage 8,800 gallons of containerized waste in each of its three temporary staging areas (26,400 gallons total). The Facility also has two tanks and a wet scrubber with a total of 2,150 gallons of waste liquid capacity. The modified tank will add 1,000 gallons capacity.

1.2 Compliance With Risk Reduction Standards

In addition to meeting the federal requirements for closure, hazardous and industrial solid waste facilities in Texas must be closed in accordance with the Texas Risk Reduction Standards given in 30 TAC Chapter 335, Subchapter S. This closure plan has been developed to document compliance with this requirement. In particular, the site will be closed in accordance with Risk Reduction Standard Number 1 as given in 30 TAC 335.554. This involves closure and decontamination of the site to background levels. Detailed descriptions of the procedures that will take place during closure in order to attain compliance with Risk Reduction Standard Number 1 are given in subsequent sections of this plan. If it is found that the site cannot meet Risk Reduction Standard Number 1, it will amend its plan to correspond to the selected closure standard.

With the Facility meeting Risk Reduction Standard Number 1, the site does not anticipate encountering soil contamination requiring excavation and backfilling. The facility operates in a way to minimize spill events and immediately repair concrete cracking. Therefore, this plan does not include costs or schedules for soil remediation. If soil contamination is found during closure, the plan will be amended to encompass the situation. In the event a release of constituents of concern (COC"s) is found in

1.0 GENERAL INFORMATION

1.1 General Site Information and Maximum Capacities

Clean Harbors La Porte, LLC (Facility), located at 500 Independence Parkway South in La Porte, Texas, operates as commercial hazardous and industrial solid waste transfer and storage facility. The Facility is permitted to receive hazardous waste in containers for storage, bulking, processing or disposal. Hazardous waste is stored on-site in containers, then processed or disposed on-site or shipped off-site for treatment or disposal.

The Facility consists of three container storage areas, two treatment tanks, a cylinder release unit and upon construction one modified waste treatment tank and a second cylinder release unit. Each waste storage and management area is equipped with a secondary containment system designed to contain any leaks or spills and prevent run-on. All waste storage and management areas are covered to protect them from weather and to prevent the accumulation of rainwater. Waste loading and unloading areas are also bermed and covered.

The Facility can store up to 1,064,270 gallons of waste in containers. Waste containers may also be temporarily staged prior to acceptance for storage or shipment off-site for treatment or disposal. The Facility may stage 8,800 gallons of containerized waste in each of its three temporary staging areas (26,400 gallons total). The Facility also has two tanks and a wet scrubber with a total of 2,150 gallons of waste liquid capacity. The modified tank will add 1,000 gallons capacity.

1.2 Compliance With Risk Reduction Standards

In addition to meeting the federal requirements for closure, hazardous and industrial solid waste facilities in Texas must be closed in accordance with the Texas Risk Reduction Standards given in 30 TAC Chapter 335, Subchapter S. This closure plan has been developed to document compliance with this requirement. In particular, the site will be closed in accordance with Risk Reduction Standard Number 1 as given in 30 TAC 335.554. This involves closure and decontamination of the site to background levels. Detailed descriptions of the procedures that will take place during closure in order to attain compliance with Risk Reduction Standard Number 1 are given in subsequent sections of this plan. If it is found that the site cannot meet Risk Reduction Standard Number 1, it will amend its plan to correspond to the selected closure standard.

With the Facility meeting Risk Reduction Standard Number 1, the site does not anticipate encountering soil contamination requiring excavation and backfilling. The facility operates in a way to minimize spill events and immediately repair concrete cracking. Therefore, this plan does not include costs or schedules for soil remediation. If soil contamination is found during closure, the plan will be amended to encompass the situation. In the event a release of constituents of concern (COC"s) is found in

Attachment 12

14. If soil contamination is found in any area, the Facility will submit a revised contingent closure plan to TCEQ to propose a sampling plan that will fully define the extent of contamination in the soil.

4.2 Estimated Closure Schedule

Activity	Cumulative Time (Weeks)
Empty tanks	4
Clean tanks, containment areas and buildings	8
Disassemble and clean ancillary equipment	10
Sample and analyze rinse water	16
Inspect soils and surrounding areas	18
Removal of any contaminated soils	24
Provide certification	26

4.3 Partial Closure of the Tanks and Processing Areas

Partial closure of the tanks and processing areas will involve the closure of one or more tanks or processing areas. Partial closure will proceed using the same procedures and time line given in Sections 4.1 and 4.2, with the following exceptions.

1. For partial closure of one or more tank, piping to the tank undergoing closure will be isolated to prevent mixing of rinseates with active waste streams.

2. Inspection and removal of contaminated soils from surrounding areas will not be conducted, as waste activities will continue in adjacent areas. Therefore partial closure of a tank or process area will take approximately eight weeks less time than full closure of the area.

5.0 CLOSURE OF CYLINDER RELEASE SYSTEMS AREA

The ~~two~~ Cylinder Release System~~s~~ each consists of an inert gas cylinder for line purging and ancillary equipment. Storage and processing areas are located within the existing Container Storage Area 001 (Warehouse I). Therefore, these units will be provided with secondary containment and covered to prevent the accumulation of rainwater.

Closure of the Cylinder Release Systems will consist of the following activities: removal of two cylinders; shipment of the waste to a permitted off-site facility for treatment and disposal; decontaminating all ancillary equipment; decommissioning and decontaminating all ancillary equipment; collecting and removing all decontaminating rinse waters and media for off-site disposal; and sampling to verify that proper decontamination has taken place.

14. If soil contamination is found in any area, the Facility will submit a revised contingent closure plan to TCEQ to propose a sampling plan that will fully define the extent of contamination in the soil.

4.2 Estimated Closure Schedule

Activity	Cumulative Time (Weeks)
Empty tanks	4
Clean tanks, containment areas and buildings	8
Disassemble and clean ancillary equipment	10
Sample and analyze rinse water	16
Inspect soils and surrounding areas	18
Removal of any contaminated soils	24
Provide certification	26

4.3 Partial Closure of the Tanks and Processing Areas

Partial closure of the tanks and processing areas will involve the closure of one or more tanks or processing areas. Partial closure will proceed using the same procedures and time line given in Sections 4.1 and 4.2, with the following exceptions.

1. For partial closure of one or more tank, piping to the tank undergoing closure will be isolated to prevent mixing of rinseates with active waste streams.

2. Inspection and removal of contaminated soils from surrounding areas will not be conducted, as waste activities will continue in adjacent areas. Therefore partial closure of a tank or process area will take approximately eight weeks less time than full closure of the area.

5.0 CLOSURE OF CYLINDER RELEASE SYSTEMS AREA

The Cylinder Release System each consists of an inert gas cylinder for line purging and ancillary equipment. Storage and processing areas are located within the existing Container Storage Area 001 (Warehouse I). Therefore, these units will be provided with secondary containment and covered to prevent the accumulation of rainwater.

Closure of the Cylinder Release Systems will consist of the following activities: removal of two cylinders; shipment of the waste to a permitted off-site facility for treatment and disposal; decontaminating all ancillary equipment; decommissioning and decontaminating all ancillary equipment; collecting and removing all decontaminating rinse waters and media for off-site disposal; and sampling to verify that proper decontamination has taken place.

Task	Cost
Contingency (10% minimum)	$860.16
Total Unit Closure Cost	$9,461.78

Task	Cost
Tank R-1A	
Removal of Waste Flush Tank and Piping Pressure Wash Tank	$1,997.94
Disassemble Piping Remove Tank	$834.00
Sample Collection 1 sample = $52.56 Sample Analysis 1 samples = $1681.61	$1,734.17
Disposal tank & piping Decontamination Water Tank contents	$2,899.56
Transportation Tank Contents, Decontamination Water, Tanks & Piping	$1,622.91
Engineering Certification 1 tank @ $1579.94/tank	$6,415.48
Subtotal	$15,504.06
Contingency (10% minimum)	$1,550.41
Total Unit Closure Cost	$17,054.46

~~Task~~	~~Cost~~
~~Tank R2~~	
~~Removal of Waste~~ ~~Flush Tank and Piping~~ ~~Pressure Wash Tank~~	~~$1,997.94~~
~~Disassemble Piping~~ ~~Remove Tank~~	~~$834.00~~
~~Sample Collection 1 sample = $52.56~~ ~~Sample Analysis 1 samples = $1681.61~~	~~$1,734.17~~

Formatted: Font: 11 pt

Formatted: Normal, Right: 0", Space Before: 0 pt, Line spacing: single

~~Task~~	~~Cost~~
~~Disposal tank & piping~~ ~~Decontamination Water~~ ~~Tank contents~~	~~$2,899.56~~
~~Transportation Tank Contents, Decontamination Water, Tanks & Piping~~	~~$1,622.91~~
~~Engineering~~ ~~Certification 1 tank @ $1579.94/tank~~	~~$6,415.48~~
~~Subtotal~~	~~15504.06~~
~~Contingency (10% minimum)~~	~~$1,550.41~~
~~Total Unit Closure Cost~~	~~$17,054.46~~

Task	Cost
Cylinder Release Unit 1	
Disassembly and Disposal of Unit 1 units @ $1,266.1/ unit	$1,226.10
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Other tasks (such as labor, lab analysis, transportation, certifications, etc.)	
Other tasks	
Subtotal	$1,226.10
Contingency (10% minimum)	$122.61
Total Unit Closure Cost	$1,348.71

~~Task~~	~~Cost~~
~~Cylinder Release Unit 2~~	

Formatted: Font: 11 pt

Formatted: Normal

Formatted: Normal, Right

~~Task~~	~~Cost~~
~~Disassembly and Disposal of Unit 1 unit @ $1,266.1/ unit~~	~~$1,226.10~~
~~Verbal description of task (waste amount generated x disposal cost/unit amount)~~	
~~Verbal description of task (waste amount generated x disposal cost/unit amount)~~	
~~Verbal description of task (waste amount generated x disposal cost/unit amount)~~	
~~Other tasks (such as labor, lab analysis, transportation, certifications, etc.)~~	
~~Other tasks~~	
~~Subtotal~~	~~$1,226.10~~
~~Contingency (10% minimum)~~	~~$122.61~~
~~Total Unit Closure Cost~~	~~$1,348.71~~

Task	Cost
Contingency (10% minimum)	$860.16
Total Unit Closure Cost	$9,461.78

Task	Cost
Tank R-1A	
Removal of Waste Flush Tank and Piping Pressure Wash Tank	$1,997.94
Disassemble Piping Remove Tank	$834.00
Sample Collection 1 sample = $52.56 Sample Analysis 1 samples = $1681.61	$1,734.17
Disposal tank & piping Decontamination Water Tank contents	$2,899.56
Transportation Tank Contents, Decontamination Water, Tanks & Piping	$1,622.91
Engineering Certification 1 tank @ $1579.94/tank	$6,415.48
Subtotal	$15,504.06
Contingency (10% minimum)	$1,550.41
Total Unit Closure Cost	$17,054.46

Task	Cost
Cylinder Release Unit 1	
Disassembly and Disposal of Unit 1 units @ $1,266.1/ unit	$1,226.10
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Verbal description of task (waste amount generated x disposal cost/unit amount)	
Other tasks (such as labor, lab analysis, transportation, certifications, etc.)	
Other tasks	
Subtotal	$1,226.10
Contingency (10% minimum)	$122.61
Total Unit Closure Cost	$1,348.71

RESERVED

Table VII.E.1. - Permitted Unit Closure Cost Summary

Existing Unit Closure Cost Estimate	
Unit	Cost
Tank R-1 (In 2020 Dollars)	$9,461.78
Tank R-1A (In 2020 Dollars)	$17,054.46
Cylinder Release Unit 1 (In 2020 Dollars)	$1,348.71
Container Storage Area I (In 2020 Dollars)	$2,032,454.89
Container Storage Area II (In 2020 Dollars)	$1,327,498.55
Container Storage Area III (In 2020 Dollars)	$2,039,157.87
Total Existing Unit Closure Cost Estimate[1]	$5,426,976.26

Proposed Unit Closure Cost Estimate	
Unit	Cost
Outdoor Storage Area (In 2020 Dollars)	$948,746.78
~~Tank R-2 (In 2020 Dollars)~~	~~$17,054.46~~
~~Cylinder Release Unit 2 (In 2020 Dollars)~~	~~$1,348.71~~

1 As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

~~As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.~~

Table VII.E.1. - Permitted Unit Closure Cost Summary

Existing Unit Closure Cost Estimate	
Unit	Cost
Tank R-1 (In 2020 Dollars)	$9,461.78
Tank R-1A (In 2020 Dollars)	$17,054.46
Cylinder Release Unit 1 (In 2020 Dollars)	$1,348.71
Container Storage Area I (In 2020 Dollars)	$2,032,454.89
Container Storage Area II (In 2020 Dollars)	$1,327,498.55
Container Storage Area III (In 2020 Dollars)	$2,039,157.87
Total Existing Unit Closure Cost Estimate[1]	$5,426,976.26

Proposed Unit Closure Cost Estimate	
Unit	Cost
Outdoor Storage Area (In 2020 Dollars)	$948,746.78

1 As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

Attachment 13

Table III.D. – Inspection Schedule

Formatted: Font: Not Bold

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
CONTAINER STORAGE AREAS/STAGING AREAS	· Curbs, floor and floor coatings have no cracks, chips and gouges. · Container racks in good condition and structurally sound. · Pallets holding containers in good condition and structurally sound. · No spills, collected liquids, or standing liquids. · No emergency equipment or emergency exits blocked. · Fire extinguishers in place and full charged. · Safety showers and eyewash stations operating properly. · Area clear of debris and trash. · All lights illuminated. · Aisles unobstructed and two foot spacing maintained. · Trailer and truck wheels chocked. · Satellite drums closed, properly labeled/marked, not full and no clutter/ debris around area.	Daily (except weekends and holidays)

Table III.D. – Inspection Schedule

Formatted: Font: Not Bold

Formatted: Font: 12 pt

Formatted: Centered

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
CONTAINERS	· Proper approved container used. · No leaking or waste on the outside of drums or containers. · No spills or standing liquids. · No damaged, corroded, or rusted containers. · Lids, Rings, Bungs, Valves, Ties, Flaps, etc. closed per US DOT standards. · Containers properly secured on pallets or by other means. · Labels/Markings correct, legible and facing out. · Containers not stacked more than three (3) high. · Bulk containers have proper markings. · Exempt packages follow all requirements. · Incompatible wastes are properly segregated and placed in properly designated Storage Units.	Daily (except weekends and holidays)

Table III.D. – Inspection Schedule

Formatted: Font: Not Bold

Formatted: Font: 12 pt

Formatted: Centered

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
TANKS AND ANCILLARY COMPONENTS	· Overfill prevention equipment fully functional. This includes, but is not limited to, high-level alarms, automatic feed shut-offs, and emergency relief valves. · Tanks, piping, valves, fittings, pumps, and foundations/supports have sufficient integrity to continue operational activities. · Instrumentation, including but not limited to, flow indicators and temperature/pressure gauges, are fully functional and not transmitting abnormal information. · Secondary containment system is free of cracks, gouges, chips or deterioration that could cause a physical release. · Secondary containment system lining is not deteriorated such that a release could be possible. · Sump system is functional with no excess accumulations. · No standing water or spills. · Waste loading/unloading areas are free of cracks or deterioration that could cause a possible release. · Waste loading/unloading areas are free of standing liquids or spills.	Daily

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
SAFETY EQUIPMENT	· All signs are in specified locations, clearly visible and in good condition. · All spill cabinets and spill kits are fully stocked and in specified locations. · Emergency monitoring equipment is operational and calibrated. · SCBAs and egress bottles are functional, fully charged and in specified locations. · First Aid and Blood Borne Pathogen kits are stocked and in specified locations. · Phones, intercoms, horns and fire alarms are operating and in specified locations. · Shelter-In-Place signs and kits all fully stocked and in specified locations. · Fire pump and foam house inspections completed. · Monthly eye wash stations and fire extinguisher inspections complete. · Fire hydrants are not blocked and are clearly visible.	Weekly
SECURITY	· Fence and barbed wire in place, no gaps and in good condition. · All perimeter signs in place and visible from 25 feet. · Gates operating, locked (if appropriate) and in good condition. · Perimeter and parking lot lights all operational. · Visitor orientation, check in procedures and safety rules being followed.	Weekly

Formatted: Font: Not Bold

Formatted: Font: 12 pt

Formatted: Centered

Formatted: Right

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
FIRE AND EVACUATION ROUTES	· Evacuation signs posted, legible, not obstructed and in designated locations. · All wind socks are visible and in good condition. · Updated emergency phone list in designated locations. · Emergency procedures by phones in warehouses. · Contingency plan in designated locations. · Emergency exit routes are marked, unobstructed and exit signs lit. · Rally points unobstructed and accessible with locks and keys working. · Emergency lighting operating and in good condition. · Buildings free of clutter and accumulated flammable materials. · Fire lanes visible, unobstructed and in good condition.	Weekly

Formatted: Font: Not Bold

Formatted: Font: 12 pt

Formatted: Centered

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
CONTAINER STORAGE AREAS/STAGING AREAS	· Curbs, floor and floor coatings have no cracks, chips and gouges. · Container racks in good condition and structurally sound. · Pallets holding containers in good condition and structurally sound. · No spills, collected liquids, or standing liquids. · No emergency equipment or emergency exits blocked. · Fire extinguishers in place and full charged. · Safety showers and eyewash stations operating properly. · Area clear of debris and trash. · All lights illuminated. · Aisles unobstructed and two foot spacing maintained. · Trailer and truck wheels chocked. · Satellite drums closed, properly labeled/marked, not full and no clutter/ debris around area.	Daily (except weekends and holidays)

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
CONTAINERS	· Proper approved container used. · No leaking or waste on the outside of drums or containers. · No spills or standing liquids. · No damaged, corroded, or rusted containers. · Lids, Rings, Bungs, Valves, Ties, Flaps, etc. closed per US DOT standards. · Containers properly secured on pallets or by other means. · Labels/Markings correct, legible and facing out. · Containers not stacked more than three (3) high. · Bulk containers have proper markings. · Exempt packages follow all requirements. · Incompatible wastes are properly segregated and placed in properly designated Storage Units.	Daily (except weekends and holidays)

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
TANKS AND ANCILLARY COMPONENTS	· Overfill prevention equipment fully functional. This includes, but is not limited to, high-level alarms, automatic feed shut-offs, and emergency relief valves. · Tanks, piping, valves, fittings, pumps, and foundations/supports have sufficient integrity to continue operational activities. · Instrumentation, including but not limited to, flow indicators and temperature/pressure gauges, are fully functional and not transmitting abnormal information. · Secondary containment system is free of cracks, gouges, chips or deterioration that could cause a physical release. · Secondary containment system lining is not deteriorated such that a release could be possible. · Sump system is functional with no excess accumulations. · No standing water or spills. · Waste loading/unloading areas are free of cracks or deterioration that could cause a possible release. · Waste loading/unloading areas are free of standing liquids or spills.	Daily

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
SAFETY EQUIPMENT	· All signs are in specified locations, clearly visible and in good condition. · All spill cabinets and spill kits are fully stocked and in specified locations. · Emergency monitoring equipment is operational and calibrated. · SCBAs and egress bottles are functional, fully charged and in specified locations. · First Aid and Blood Borne Pathogen kits are stocked and in specified locations. · Phones, intercoms, horns and fire alarms are operating and in specified locations. · Shelter-In-Place signs and kits all fully stocked and in specified locations. · Fire pump and foam house inspections completed. · Monthly eye wash stations and fire extinguisher inspections complete. · Fire hydrants are not blocked and are clearly visible.	Weekly
SECURITY	· Fence and barbed wire in place, no gaps and in good condition. · All perimeter signs in place and visible from 25 feet. · Gates operating, locked (if appropriate) and in good condition. · Perimeter and parking lot lights all operational. · Visitor orientation, check in procedures and safety rules being followed.	Weekly

Table III.D. – Inspection Schedule

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
FIRE AND EVACUATION ROUTES	· Evacuation signs posted, legible, not obstructed and in designated locations. · All wind socks are visible and in good condition. · Updated emergency phone list in designated locations. · Emergency procedures by phones in warehouses. · Contingency plan in designated locations. · Emergency exit routes are marked, unobstructed and exit signs lit. · Rally points unobstructed and accessible with locks and keys working. · Emergency lighting operating and in good condition. · Buildings free of clutter and accumulated flammable materials. · Fire lanes visible, unobstructed and in good condition.	Weekly

Attachment 14

Table IV.A. - Waste Management Information

Waste Type(s)	Source	Volume (tons/year)
N/A		

Attachment 15

Table IV.B. - Wastes Managed In Permitted Units

~~No.~~	~~Waste~~	~~EPA Hazardous Waste Numbers~~	~~TCEQ Waste Form Codes and Classification Codes~~
~~No.~~	~~Waste~~	~~EPA Hazardous Waste Numbers~~	~~TCEQ Waste Form Codes and Classification Codes~~
~~No.~~	~~Waste~~	~~EPA Hazardous Waste Numbers~~	~~TCEQ Waste Form Codes and Classification Codes~~
~~No.~~	~~Waste~~	~~EPA Hazardous Waste Numbers~~	~~TCEQ Waste Form Codes and Classification Codes~~
~~No.~~	~~Waste~~	~~EPA Hazardous Waste Numbers~~	~~TCEQ Waste Form Codes and Classification Codes~~
No.	Waste	EPA Hazardous Waste Numbers	TCEQ Waste Form Codes and Classification Codes
101	Inorganic Liquid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
102	Organic Liquid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
103	Lab Packs	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
104	Inorganic Sludge	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
105	Organic Sludge	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
106	Inorganic Solid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
107	Organic Solid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
108	Containerized Gas	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
101	Inorganic Liquid	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1
102	Organic Liquid	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1
108	Containerized Gas	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1

Table IV.B. - Wastes Managed In Permitted Units

No.	Waste	EPA Hazardous Waste Numbers	TCEQ Waste Form Codes and Classification Codes
101	Inorganic Liquid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
102	Organic Liquid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
103	Lab Packs	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
104	Inorganic Sludge	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
105	Organic Sludge	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
106	Inorganic Solid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
107	Organic Solid	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
108	Containerized Gas	All appropriate permitted EPA Waste codes (1)	All Form codes indicated by waste type classified as hazardous or class 1
101	Inorganic Liquid	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1
102	Organic Liquid	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1
108	Containerized Gas	See codes below (2)	All Form codes indicated by waste type classified as hazardous or class 1

Attachment 16

Table IV.C. - Sampling and Analytical Methods

Revision 1, August 22, 2020

Waste No.[1]	Sampling Location	Sampling Method[2]	Frequency	Parameter	Test Method[2]	Desired Accuracy Level[3]
101 102	Generator's site or container storage area 001, 002, or 003. [2]These are the primary sampling locations only.	COLIWASA or sampling valve (for tank samples). [2]See WAP for additional methods - certain test methods have been modified as indicated in the WAP.	One per shipment or blend/batch unless exempted by WAP	Fingerprint Analysis: Physical description pH/ water reactivity Ignitability screen Supplemental analysis: Specific gravity Bulk density Halogens Acid scrub Reactive cyanides/ sulfides [2][2]Not all parameters apply to each sample - see WAP for more details.	Visual observation SW 846, 9045C SW 846 1020 Mod. ASTM D1298 ASTM D5057 ASTM D2361 mod. EPA 305.2 SW-846 9010/ 9030	Duplicates must match ± 1.0 S.U. duplicates must match ± 0.1 ± 20% ± 10% ± 10% ± 15%
104 105	Generator's site or container storage area 001, 002, or 003. [2]These are the primary sampling locations only.	COLIWASA or tubing. [2]See WAP for additional methods - certain test methods have been modified as indicated in the WAP.	One per shipment or blend/batch unless exempted by WAP	See Waste No. 101 above. [2]Not all parameters apply to each sample - see WAP for more details.	See Waste No. 101 above	See Waste No. 101 above

Table IV.C. - Sampling and Analytical Methods

Revision 1,
August 22, 2020

Waste No.[1]	Sampling Location	Sampling Method[2]	Frequency	Parameter	Test Method[2]	Desired Accuracy Level[3]
101 102	Generator's site or container storage area 001, 002, or 003. [2]These are the primary sampling locations only.	COLIWASA or sampling valve (for tank samples). [2]See WAP for additional methods - certain test methods have been modified as indicated in the WAP.	One per shipment or blend/batch unless exempted by WAP	Fingerprint Analysis: Physical description pH/ water reactivity Ignitability screen Supplemental analysis: Specific gravity Bulk density Halogens Acid scrub Reactive cyanides/ sulfides [2]Not all parameters apply to each sample - see WAP for more details.	Visual observation SW 846, 9045C SW 846 1020 Mod. ASTM D1298 ASTM D5057 ASTM D2361 mod. EPA 305.2 SW-846 9010/ 9030	Duplicates must match ± 1.0 S.U. duplicates must match ± 0.1 ± 20% ± 10% ± 10% ± 15%
104 105	Generator's site or container storage area 001, 002, or 003. [2]These are the primary sampling locations only.	COLIWASA or tubing. [2]See WAP for additional methods - certain test methods have been modified as indicated in the WAP.	One per shipment or blend/batch unless exempted by WAP	See Waste No. 101 above. [2]Not all parameters apply to each sample - see WAP for more details.	See Waste No. 101 above	See Waste No. 101 above

Attachment 17

Table III-2 - Hazardous Waste Management Unit Checklist

Waste Management Unit	TCEQ N.O.R. Unit Number	Status[1]	Design Capacity (gallons)	Number of Years Utilized	Date in Service
Warehouse I Container Storage Area	001	Active	403,960	32	4/6/1988
Warehouse II Container Storage Area	003	Active	264,970	30	8/29/1989
Warehouse III Container Storage Area	004	Active	395,340	30	7/12/1990
Chemical Reactor Tank: R-1	026	Active	200	13	6/4/2007
Chemical Reactor Tank: R-1A	027	Active	500 ~~/ 1,500 (Proposed)~~	15	4/18/05
Cylinder Release Unit 1	028	Active	19,800 Cubic Ft per hour *	15	3/25/2005
~~Cylinder Release Unit 2~~	~~32~~	~~Proposed~~	~~*~~	~~NA~~	~~NA~~
Bulk Container Storage Area	033	Proposed	181,777	NA	NA

Notes:

[1] Indicate only one of the following: Active, Inactive, Closed, or Proposed
* Unit is a series of tubing, piping and valves from the cylinder connection to the atmosphere with no capacity to measure regarding storage or possessing – it is direct a release unit.

TCEQ - Texas Commission of Environmental Quality
NA - not applicable
N.O.R. - Notice of Registration

Table III-2 - Hazardous Waste Management Unit Checklist

Waste Management Unit	TCEQ N.O.R. Unit Number	Status[1]	Design Capacity (gallons)	Number of Years Utilized	Date in Service
Warehouse I Container Storage Area	001	Active	403,960	32	4/6/1988
Warehouse II Container Storage Area	003	Active	264,970	30	8/29/1989
Warehouse III Container Storage Area	004	Active	395,340	30	7/12/1990
Chemical Reactor Tank: R-1	026	Active	200	13	6/4/2007
Chemical Reactor Tank: R-1A	027	Active	500	15	4/18/05
Cylinder Release Unit 1	028	Active	19,800 Cubic Ft per hour *	15	3/25/2005
Bulk Container Storage Area	033	Proposed	181,777	NA	NA

Notes:

[1] Indicate only one of the following: Active, Inactive, Closed, or Proposed
* Unit is a series of tubing, piping and valves from the cylinder connection to the atmosphere with no capacity to measure regarding storage or possessing – it is direct a release unit.

TCEQ - Texas Commission of Environmental Quality
NA - not applicable
N.O.R. - Notice of Registration

Clean Harbors La Porte, LLC
RCRA Permit Application PART A
ATTACHMENT D - FACILITY PHOTOS

1. WAREHOUSE I NORTH
2. WAREHOUSE I WEST
3. WAREHOUSE I CYLINDER RELEASE UNIT
4. WAREHOUSE I R1 REACTOR TANK
5. WAREHOUSE I R1A REACTOR TANK
6. WAREHOUSE II NORTH
7. WAREHOUSE II SOUTH
8. WAREHOUSE II WEST
9. WAREHOUSE II BIOMED WASTE PROCESSING AREA
10. WAREHOUSE III EAST
11. WAREHOUSE III SOUTH
12. WAREHOUSE III HIGH HAZARD VAULT
~~13. PROPOSED LOCATION IN WAREHOUSE III FOR ADDITIONAL CYLINDER RELEASE UNIT~~
~~14.~~13. WAREHOUSE III LOADING DOCK
~~15.~~14. OUTDOOR STORAGE AREA (for 28 roll-off box storage-permitted; not constructed)

Clean Harbors La Porte, LLC
RCRA Permit Application PART A
ATTACHMENT D - FACILITY PHOTOS

1. WAREHOUSE I NORTH
2. WAREHOUSE I WEST
3. WAREHOUSE I CYLINDER RELEASE UNIT
4. WAREHOUSE I R1 REACTOR TANK
5. WAREHOUSE I R1A REACTOR TANK
6. WAREHOUSE II NORTH
7. WAREHOUSE II SOUTH
8. WAREHOUSE II WEST
9. WAREHOUSE II BIOMED WASTE PROCESSING AREA
10. WAREHOUSE III EAST
11. WAREHOUSE III SOUTH
12. WAREHOUSE III HIGH HAZARD VAULT
13. WAREHOUSE III LOADING DOCK
14. OUTDOOR STORAGE AREA (for 28 roll-off box storage - permitted; not constructed)

Photo 13

Photo 14

Attachment 18

Signature Page

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Signature: _____ Date: 8/19/2020

Name and Official Title (type or print): **James Childress / VP of Environmental Compliance**

Owner Signature: _____ Date: 8/19/2020

Name and Official Title (type or print): **James Childress / VP of Environmental Compliance**

To be completed by the operator if the application is signed by an authorized representative for the operator

I, _____ hereby designate _____
(operator) (authorized representative)
as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

_____
Printed or Typed Name of Operator or Principal Executive Officer

_____
Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

Subscribed and sworn to before me by the said James C. Childress on this 19th day of August, 2020.

My commission expires of the 28th day of March, 2023

SHARON L HART
STATE OF TENNESSEE
NOTARY PUBLIC
COUNTY OF ROBERTSON

Sharon L. Hart
Notary Public in and for
Robertson County, Tennessee

Attachment 19

Signature Page

I, James Childress, V.P. Environmental Compliance,
(Operator) *(Title)*

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date: 8/19/2020

To be completed by the Operator if the application is signed by an Authorized Representative for the Operator

I, _____, hereby designate _____
[Print or Type Name] *[Print or Type Name]*

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

_____
Printed or Typed Name of Operator or Principal Executive Officer

_____
Signature

SUBSCRIBED AND SWORN to before me by the said
On this 19th day of August, 2020
My commission expires on the 28th day of March, 2023

Notary Public in and for Robertson County, Tennessee
*[**Note**: Application Must Bear Signature & Seal of Notary Public]*

SHARON L HART
STATE OF TENNESSEE
NOTARY PUBLIC
COUNTY OF ROBERTSON

Attachment 20

Clean Harbors La Porte, LLC
500 Independence Parkway South
La Porte, Texas 77571
281.884.5500
www.cleanharbors.com

August 20, 2020

Gulay Aki, P.E., Section Manager
Industrial & Hazardous Waste Permits Section
Waste Permits Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Building F
Austin, Texas 78753

Re: RCRA Part B Permit Renewal Application – Removal of Proposed/Not Constructed WMUs
Clean Harbors La Porte, LLC - LaPorte, Harris County
Hazardous Waste Permit No. 50225; Industrial Solid Waste Registration No. 50225
EPA Identification No. TXD982290140
RN102949021/CN603661844

Dear Ms. Aki:

The referenced facility respectfully requests the following proposed Waste Management Units (WMUs) be removed from the subject permit renewal:

- Increased tank size (i.e., 1500 gallons) for Tank R-1A (NOR# 027); and
- Proposed Cylinder Release Unit 2 (NOR# 032).

These units were previously permitted but never constructed, and the facility has removed them from the permit renewal application so that the aforementioned permitted but not constructed WMUs can be removed from the permit and NOR.

Please contact David DeSha at desha.david@cleanharbors.com or (423) 413-1218 with any questions or comments you have concerning this matter.

Sincerely,

James Childress
VP Environmental Compliance
Clean Harbors Environmental Services, Inc.

August 25, 2020

Dear Customer,

The following is the proof-of-delivery for tracking number: 396133550762

Delivery Information:

Status:	Delivered	**Delivered To:**	Mailroom
Signed for by:	A.WOODS	**Delivery Location:**	12100 PARK THIRTY FIVE C
Service type:	FedEx Priority Overnight		AUSTIN, TX, 78753
Special Handling:	Deliver Weekday	**Delivery date:**	Aug 25, 2020 12:28

Shipping Information:

Tracking number:	396133550762	**Ship Date:**	Aug 24, 2020
		Weight:	7.0 LB/3.18 KG

Recipient:
ATTN: GULAY AKI, MC 130, TCEQ,
12100 PARK 35 CIR
BLDG F
AUSTIN, TX, US, 78753

Shipper:
DAVID DESHA, CLEAN HARBORS
500 INDEPENDENCE PKWY S
LA PORTE, TX, US, 77571

Thank you for choosing FedEx