

Municipal Waste Landfill Inspection Report

Permit Number	100022	EPA ID Number	----
Facility Name	CHRIN BROS SANI LDFL	Operator Name	CHRIN BROS INC
Address	1225 INDUSTRIAL DR	Address	1225 INDUSTRIAL DR
City/State/Zip	EASTON PA 18042-6829	City/State/Zip	EASTON PA 18042-6829
Municipality	Williams Township	County	Northampton
Responsible Official	Gregory Chrin	Title	Owner/Operator
Person Interviewed	Tom McMonigle	Title	Site Engineer
Lead Inspector	AMY E FAULCH	Telephone #	1
Additional Personnel	MAATTHEW GLOGOWSKI	Title	SLD WSTE SUPV
Site ID	238053	Title	----
PF ID	240650	Client ID	42952
Inspection Start Date	08/09/2022 08:48 AM	SF ID	201820
Inspection Type	RTNC - Routine/Complete Inspection	Inspection End Date	08/09/2022 11:30 AM
Permit Expiration Date	01/06/2030	Inspection Result	No Violations Noted
		Days/Week Operated	6
		Max. Daily Volume	2000 Tons/Day

Check Lists

Municipal Waste Landfill (0131)			
Status	Requirement	Chapter Citation	Line Item
GENERAL PROVISIONS			
No Violation	Required insurance in effect	271.371	1
	(expiration date) 12/01/2022		1A
No Violation	Operation in accordance with approved plans and permit.	273.201(c)(2)	2
No Violation	Operation within permit boundaries (vertical and horizontal).	273.201(c)(2)	3
No Violation	Disposal Timing and sequence as per Section 273.112(1).	273.201(c)(2)	4

No Violation	No unapproved wastes or liquids.	273.201(d)-(m)	5
No Violation	Isolation distances are adhered to.	273.202(a)	6
No Violation	Facilities certification requirements followed.	273.203(a), (b)	7
No Violation	Written Department approval of new construction prior to waste disposal.	273.203(c)	8
DAILY OPERATIONS			
No Violation	Proper signs posted.	273.211(a)	9
No Violation	Site perimeter clearly marked and grid coordinate system in use.	273.211(b)-(d)	10
No Violation	Proper barriers installed around site and access controlled when attendant not present.	273.212(a)-(i)	11
No Violation	Access roads maintained and negotiable by collection vehicles.	273.213(a)-(i)	12
No Violation	Approved means of measuring and inspected waste utilized.	273.214(a), (b)	13
No Violation	Adequate equipment on-site and stand-by equipment available.	273.215(a), (b)	14
No Violation	Vehicles directed promptly to unloading area and promptly unloaded.	273.216(a), (b)	15
No Violation	Solid waste spread and compacted as approved by Department as part of permit.	273.216(c)	16
Not Determined	Operator implements fugitive air contaminant control/measures and prevents and controls air pollution including no exceeding of ambient air quality standards, no open burning, and minimizing generation of fugitive dust emissions from facility.	273.217(a)	17
Not Determined	Operator complies with Air Quality Plan approval and Air quality Operating Permit.	273.217(b)	18
No Violation	Operator does not cause or allow attraction, harborage, or breeding of vector.	273.218(a)	19
Not Determined	Operator implements nuisance minimization and control plan.	273.218(b)(1)	20

No Violation	Operator performs regular, frequent, and comprehensive site inspections to reduce potential for offsite odors.	273.218(b)(2)	21
No Violation	Operator promptly addresses and correct problems and deficiencies discovered during inspections.	273.218(b)(3)	22
Not Determined	Operator implements nuisance minimization and control plan to minimize and control other conditions harmful to the environment or public health, or which create safety hazards, odors, dirt, noise, unsightliness and other public nuisances.	273.218(c)	23
No Violation	Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.	273.221(a)	24
No Violation	Operator implements radiation protection action plan.	273.223(a)	25
No Violation	Operator monitors incoming waste in accordance with Department's guidance or in a manner at least as protective of the environment, facility staff and public health and safety.	273.223(b)	26
No Violation	Radiation detector elements shall be as close as practical to wasteload and in appropriate geometry to monitor the waste.	273.223(c)	27
No Violation	Operator has portable radiation monitors capable of determining the dose rate and presence of contamination of a vehicle that has caused an alarm. Upon exceedance of alarm level, a radiological survey of the vehicle is performed.	273.223(d)	28
No Violation	Operator notifies Department immediately and isolates vehicle when radiation dose rates are exceeded.	273.223(e)	29
No Violation	Monitoring equipment is calibrated at frequency specified by manufacturer, but not less than once a year.	273.223(f)	30
No Violation	If radioactive material is detected, vehicle containing material shall not leave facility without written Department approval and an authorized federal Department of Transportation exemption form.	273.223(g)	31

Not Determined	Uniform cover of the approved daily cover material is placed on exposed solid waste at the end of each working day or at the end of every 24 hours, whichever interval is less.	273.232(a)	32
No Violation	If intermediate cover requires revegetation, it is established within 30 days.	273.233(e)	33
No Violation	Slopes constructed during daily landfilling and intermediate cover activities may not exceed 50 percent.	273.233(f)	34
No Violation	Operator does not cause or allow waste pollution within or outside the site from operation of the facility.	273.241(a)-(c)	35
Not Applicable	Operator has restored or replaced adversely affected water supply with an alternative source of like quantity and quality.	273.245(a)	36
Not Applicable	Temporary water supply is provided within 48 hours.	273.245(b)	37
Not Applicable	Permanent water supply is provided within 90 days.	273.245(c)	38
No Violation	No waste 15 feet of inside top of the lined perimeter berm.	273.252(e)	39
No Violation	Lined perimeter berm 4 ft. high constructed and maintained along edge of the lined disposal area.	273.252(f)	40
No Violation	Edge of liner clearly marked.	273.252(g)	41
Not Applicable	Alternate leachate recirculation method may be used if approved if one of the liner systems is a composite liner.	273.274(b)	42
No Violation	Underground pipes used to transport leachate to leachate storage impoundments or tanks equipped with secondary containment or comply with 245.445.	273.275(g)	43
Not Applicable	Operator isolates coal seams, coal outcrops and coal refuse from waste deposits to prevent combustion of waste and damage to liner.	273.291(a)	44
Not Applicable	Mine openings within site sealed as approved by Department.	273.291(b)	45
Not Applicable	Operator implements plan for controlling potential damage from subsidence submitted and approved under 273.120.	273.291(c)	46

Not Determined	Landfill designed, constructed, maintained and operated to prevent and minimize potential for fire, explosion, or release of solid waste constituents into air, water, or soil of the Commonwealth.	273.301	47
No Violation	Emergency equipment including portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment available. For fire equipment requiring water, facility has a water supply of or adequate quantity and pressure to supply the equipment.	273.302(a)	48
No Violation	Emergency equipment tested and maintained.	273.302(c)	49
No Violation	Adequate space maintained to allow unobstructed movement of emergency personnel and equipment.	273.302(d)	50
No Violation	Litter controlled/collected and barriers/fences in place.	273.220(a)-(c)	51
COVER/SLOPES/REVEGETATION			
Not Determined	Daily/intermediate cover meets performance and design requirements.	273.232(b), 273.233(b), (c)	52
No Violation	Minimum 5 day supply of daily and intermediate cover maintained on-site.	273.232(c) & 273.233(d)	53
No Violation	Intermediate cover applied within time limits.	273.233(a)	54
No Violation	Intermediate slopes do not exceed 50%.	273.232(d)	55
No Violation	Cap placed over entire surface of final lift meets performance standards.	273.234(a)(1)	56
No Violation	Final cover meets performance and design requirements; applied within time limits.	273.234(b)-(e)	57
No Violation	Final slopes stable and erosion controlled.	273.234(f)	58
No Violation	Final slopes graded 3-15% or terraced to 33% as approved.	273.234(g)	59
No Violation	Minimum revegetation and successful revegetation requirements adhered to.	273.235(a)-(e) & 273.236(a), (b)	60
WATER QUALITY PROTECTION			
No Violation	Surface and groundwater treatment facilities properly operated and maintained.	273.241(b)	61

No Violation	Surface water percolation minimized/prevented.	273.242(b)(1) & 273.234(e)(4)	62
No Violation	Soil erosion and sedimentation controls designed and implemented as per approved plans; gullies over nine inches repaired.	273.242(a)-(c)	63
No Violation	Sedimentation ponds and discharge structures designed, constructed, operated, and maintained in accordance with Chapters 273, 102, and 105.	273.243(a)-(g) & 273.244	64
LINER SYSTEM			
No Violation	Liner system designed, constructed, operated, and maintained when required.	273.251(a), (b)	65
No Violation	Edge of liner requirements adhered to (i.e., no waste within 25 feet of adjacent liner, 4 feet high lined berm, to prevent lateral escape of leachate, adequate spacing on inside of berm to collect stormwater and sediment).	273.252(d)	66
No Violation	Leachate detection zone monitored weekly.	273.255(c)	67
No Violation	Protective cover protects primary liner and leachate collection system and allows free flow of leachate into the collection system.	273.257(a)	68
No Violation	Protective cover meets minimum requirements and at least 18 inches thick.	273.257(b)	69
No Violation	Leachate collection system within protective cover meets minimum requirements.	273.258(a), (b)	70
No Violation	Barrier designed, constructed and maintained as required to prevent lateral migration of leachate off-site in surface mined areas.	273.259(a)-(d)	71
No Violation	8 feet of select waste placed over protective cover.	273.260	73
LEACHATE TREATMENT			
No Violation	Leachate collected and handled through Department approved method(s).	273.272(a)-(c)	74
Not Applicable	Leachate transportation requirements adhered to.	273.273(a)-(c)	75
No Violation	Cessation of site operation if alternate leachate handling not available.	273.273(d)	76
Not Applicable	Leachate treatment system permitted and fully operational at least 3 years before closure.	273.273(e)	77

Not Applicable	Leachate recirculation in accordance with regulations.	273.274(1)-(4)	78
No Violation	Leachate collection and storage systems on-site have capacity of 30 days or 250,000 gallons, whichever is greater.	273.275(a)-(f)	79
No Violation	Leachate flow rate measured daily; analyzed quarterly.	273.276(a)-(b)	80
No Violation	Department notified when remedial action(s) required.	273.277(1)-(4)	81
WATER QUALITY MONITORING			
No Violation	Approved monitoring system installed and maintained.	273.281(a), (b) & 273.283	82
No Violation	Quarterly and annual monitoring requirements adhered to and results submitted Department within time constraints.	273.284 & 273.285	83
No Violation	Groundwater assessment plan submitted and implement as required.	273.286(a)-(g)	84
No Violation	Groundwater abatement plan submitted and implemented as required.	273.287(a)-(f)	85
RECORDKEEPING AND REPORTING			
No Violation	Operational records maintained, available and submitted as required.	273.288 & 273.311-273.313	86
No Violation	Daily Operational Records kept in accordance with regulations for the life of the facility bond or longer if necessary.	273.311(d)	87
No Violation	Operator submits quarterly operation report.	273.312	88
No Violation	Operator submits annual operation report with fee.	273.313	89
MINERALS AND GAS			
Not Determined	Gas venting and monitoring in accordance with approved plans.	273.292(a)-(d)	90
Not Determined	Combustible gas levels not exceeded.	273.292(e)	91
Not Determined	Forced gas venting if required.	273.292(f)	92
Not Determined	Gas recovery conducted as per approved plan and §273.293, including annual analysis.	273.293(a), (b)	93
EMERGENCY PROCEDURES			

No Violation	Contingency plan implemented if there is an emergency.	273.303(a)-(c)	94
RECYCLING			
No Violation	Operator shall salvage and recycle waste in accord with recycling plan. (273.196)	273.331(a)	95
No Violation	Salvaging and recycling controlled by operator and prevents interference within operations and prevents health hazardous nuisance.	273.331(b)	96
No Violation	Salvaged materials stored in an approved area or transported offsite.	273.331(c)	97
No Violation	Drop off center established for at least three recyclables.	273.332(a)	98
No Violation	Drop off center properly located, contains bins or containers, open at least 8 hours per week and 4 hours during evenings or weekends.	273.332(b), (c)	99
No Violation	Approved public notice of availability of drop off center availability is provided.	273.332(d)	100
No Violation	On or before January 15 each year, operator informs municipality in writing of weight and type of materials recycled previous year.	273.332(e)	101
SPECIAL HANDLING AND RESIDUAL WASTES			
No Violation	Special handling and residual wastes disposed with prior Department approval, and in accordance with permit and Chapter 273.	273.501	102
Not Applicable	Infectious waste disposal restrictions adhered to.	273.511(a)-(d)	103
Not Applicable	Chemotherapeutic waste disposal restrictions adhered to.	273.512	104
No Violation	Sewage sludge co-disposal and monofill requirements followed.	273.513	105
No Violation	Sewage sludge sampling requirements adhered to and sludge meets standards for control of pathogens, vectors, and odors.	273.513(c)	106
Not Applicable	Disposal of municipal waste incineration ash in landfill or landfill cell that meets Chapter 273 requirements.	273.514(a)	107

Not Applicable	Ash residue disposal in dedicated landfill or landfill cell unless co-disposal in accordance with Chapter 273 (including leachability treatment).	273.514(b)	108
Not Applicable	Ash residue covered immediately or as approved by the Department.	273.514(c)	109
BONDING AND INSURANCE			
No Violation	Bond filed with Department.	271.312	110
No Violation	Bond maintained in an amount and with guarantees as required.	271.333(b)	111
	Bond amount \$		111A
	Phased deposit due date		111B
No Violation	Proof of a commercial policy of liability insurances submitted to the Department as specified by 271.374.	271.374	112
	Policy # GEC003617610		112A
	Insurer (company name) Greenwich Insurance Company		112B
	Expiration Date: 12/01/2022		112C

Comments

The PA Department of Environmental Protection (Department) conducted a routine complete inspection on August 9, 2022 at 0848 hours at Chrin Bros. Sanitary Landfill (Chrin). Representing the Department was Amy Faulch (this inspector) and Matthew Glogowski. Tom McMonigle provided a site tour and was interviewed on behalf of Chrin. See the 8/9/2022 odor patrol log for weather details.

The following Department personnel have entered the landfill since the 7/5/22 inspection: A. Faulch on 7/5/22; R. Malizia on 7/12/22 and 7/13/22; and A. Faulch and M. Glogowski on 8/9/22.

SITE TOUR:

Prior to entering the landfill, this inspector conducted an odor patrol in the areas surrounding the landfill. A very light, intermittent sewage odor was detected near the sewage treatment plant. A moderate, persistent "dead animal" odor was detected along Cedarville Rd. Just across the bridge from the sewage treatment plant. Very light, intermittent garbage odors were detected at the intersection of Morgan Hill Rd. And Industrial, which may have been due to passing garbage trucks. A light "wood burning" odor was detected along Industrial Dr. N. See attached 8/9/22 odor patrol log for details.

This inspector and Mr. Glogowski entered the landfill at 1000 hours. Three trucks were dumping at the working face in Cell 9A. A moderate garbage odor was detected to the south of the working face. A hose was spraying water and odor neutralizer on the working face. Perimeter line odor control misters were in operation. Some significant waste flagging was observed in the area just west of the current working face. Mr. McMonigle stated that they had added soil cover already to this area, but will also be going back in to add waste and additional cover very soon. Some dust was observed in the working face area; Mr. McMonigle requested that the water truck go over this area. The water truck was observed watering the scale area at the beginning of this inspection.

Chrin is preparing the Stage 3D area for final capping. Basting preparations are being conducted at the western area in preparation for installation of leachate tank #4. Chrin has continued blasting in the expansion area, and liner installation is complete in Stage 9B. Protective cover was being applied in 9B at the time of this inspection. The site area on the north side of Industrial Drive has been cleared in preparation for the new maintenance building. A quarterly leachate sample for radium was collected during this inspection.

Chrin has terminated its partnership with EPP, and has ceased sending landfill gas to the landfill gas-to-energy plant. Chrin has communicated with the Department regarding their evaluation of future gas-to-energy options, however no plan is yet in place. Flares 3 was in operation at the time of this inspection at 1634 scfm and 1738°F. The former EPP gas-to-energy plant on Hilton Street was observed as part of this inspection, and all EPP equipment has been removed from the site.

COMPLAINT INVESTIGATIONS:

The Department received one odor complaint since the last inspection on 7/5/22. See attached odor complaint log. Complaints were followed up with odor patrols conducted by the Department on 7/15/22 and 8/9/22.

Check List Comments

Line Item 13 - Approved means of measuring and inspected waste utilized.

Remark: Chrin had 27 overweight trucks in July 2022.

Line Item 20 - Operator implements nuisance minimization and control plan.

Remark: Line item # 20-23: Daily odor patrol logs were reviewed at the time of this inspection. Chrin's odor patrols and odor control measures appear to be following their nuisance minimization and control plan.

Line Item 24 - Operator does not receive solid waste at a landfill in excess of the maximum or average daily volume approved in the permit.

Remark: Daily tonnages were reviewed. There did not appear to be any exceedances of the 2,000 ton daily limit. The greatest one-day tonnages to date are as follows: 7/5/22: 905 tons; 8/2: 804 tons.

Line Item 25 - Operator implements radiation protection action plan.

Remark: Line item #25-31: Radiation source checks were reviewed on site. Chrin has had no radiation hits since the last inspection. Chrin's stationary radiation meters were last calibrated on 7/5/22.

Line Item 32 - Uniform cover of the approved daily cover material is placed on exposed solid waste at the end of each working day or at the end of every 24 hours, whichever interval is less.

Remark: Some significant waste flagging was observed in the daily cover area just west of the working face. Chrin is reminded to ensure that daily cover meets the requirements of 25 Pa. Code 273.232(a-b).

Line Item 52 - Daily/intermediate cover meets performance and design requirements.

Remark: See comment for line item #32.

Line Item 80 - Leachate flow rate measured daily; analyzed quarterly.

Remark: Leachate flow rate for July 2022: 25,125 gallons per day.


Line Item 90 - Gas venting and monitoring in accordance with approved plans.

Remark: Line item # 90-93: Due to the termination of Chrin's relationship with EPP, the Department requested that Chrin provide an alternative plan for beneficial use for their landfill gas, in accordance with the approved plans included with the Eastern Expansion Overlay application. As per Mr. McMonigle, Chrin has completed a gas study and is working on some new engines for energy recovery.

Inspection Report Signature Page

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning either Violations noted herein, or other violations identified as a result of review of laboratory analyses. This report does not constitute an order or other appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein. Signature by the persons interviewed does not necessarily imply concurrence with the findings of this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

Signatures

Person Interviewed	Unable To Obtain Reason: Sent to Facility via Email.	Date	--/--/----
Inspector		Date	08/10/2022

Investigator: A. Faulch Date: 7/15/22
 Weather Conditions: Partly Cloudy, 83°F, wind ENE @ 4mph, 35% H.

CASE: Chirn Landfill
ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
1-78	1422	SL	1	O	light "dead animal" odor
MHRx Industrial	1426	N			
MHR	1427	N			
Spring Valley	1428	N			
MH Top	1432	N			
Waltman Loop	1433	N			
MORvale	1435	N			
Industrial	1438	SL	1	G	very light odor, driving behind garbage truck
MHRx Industrial	1441	N			

EFACIS # 3395974

Investigator: A. Faulck Date: 8/9/22
 Weather Conditions: Sunny 84°F, 68% H, wind SW @ 8 mph

CASE: Chrin Landfill
 ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
1-78	848	N			
MTRx Industrial	851	N			
Cedarville	852	N			
Kollwood	854	N			
Auburn	855	N			
Sewage Tr. Plant	858	SL/M	I/P	S/O	very light sewage odor near STP. Moderate "decid animal" odor across bridge
Congressional	8900	N			
Clubhouse	902	N			
Turnberry	903	N			
Merion	904	N			
Water Tower	905	N			
Clubhouse	908	N			
Pinehurst	909	N			
Bethpage	911	N			
Watersford	911	N			
Prestwick	912	N			
Old Course	912	N			
St. Andrews	913	N			

Investigator: A. Faulcn Date: 8/9/22
 Weather Conditions: _____

CASE: Chmn Landfill
ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY S = Strong M = Moderate SL = Slight N = None	ODOR DURATION P = Persistent I = Intermittent N = None	ODOR DESCRIPTION EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	COMMENTS & OBSERVATIONS
Oak Hill	914	N			
Pinevalley	916	N			
Clubhouse	918	N			
Congressional	919	N			
Cedaramille	920	N			
MHR x Industrial	921	SL	1	G	very light garbage odor - passing garbage trucks
MHR	922	SL	1	G	very light garbage odor near Industrial
Spring Valley	924	N			
Water Tower	926	N			
Mt. Top	931	N			
Waltham Loop	932	N			
Morrise	934	N			
% Industrial	937	SL	1	G	very light garbage odor near MHR
MHR x Industrial	940	N			
MHR	941	N			
Belmont	942	N			
Industrial Dr. N	943	SL	1	O	light wood burning odor. from recent house fire
Hilton	944	N			

2022	Daily	Total Week	Month Average	Day	Total Month	Total Quarter
August						
1	695.6		695.6	1	695.6	16,015.0
2	804.0		749.8	2	1,499.6	16,819.0
3	644.7		714.8	3	2,144.3	17,463.7
4	663.7		702.0	4	2,808.0	18,127.4
5	663.2		694.2	5	3,471.2	18,790.6
6	83.7		592.5	6	3,554.9	18,874.3
7		3,554.90			3,554.9	18,874.3
8	663.3		602.6	7	4,218.2	19,537.6
9			527.3	8	4,218.2	19,537.6
10			468.7	9	4,218.2	19,537.6
11			421.8	10	4,218.2	19,537.6
12			383.5	11	4,218.2	19,537.6
13			351.5	12	4,218.2	19,537.6
14		663.30			4,218.2	19,537.6
15			324.5	13	4,218.2	19,537.6
16			301.3	14	4,218.2	19,537.6
17			281.2	15	4,218.2	19,537.6
18			263.6	16	4,218.2	19,537.6
19			248.1	17	4,218.2	19,537.6
20			234.3	18	4,218.2	19,537.6
21		0.00			4,218.2	19,537.6
22			222.0	19	4,218.2	19,537.6
23			210.9	20	4,218.2	19,537.6
24			200.9	21	4,218.2	19,537.6
25			191.7	22	4,218.2	19,537.6
26			183.4	23	4,218.2	19,537.6
27			175.8	24	4,218.2	19,537.6
28		0.00			4,218.2	19,537.6
29			168.7	25	4,218.2	19,537.6
30			162.2	26	4,218.2	19,537.6
31			156.2	27	4,218.2	19,537.6
Month Total						
					4,218.2	

2022	Daily	Total Week	Month Average	Day	Total Month	
JULY						
1	708.3		708.3	1	708.3	708.3
2	129.8		419.1	2	838.1	838.1
3		838.10			838.1	838.1
4	Holiday					838.1
5	903.0		279.4	3	838.1	1,741.1
6	895.4		435.3	4	1,741.1	2,636.5
7	753.5		527.3	5	2,636.5	3,390.0
8	762.4		565.0	6	3,390.0	4,152.4
9	285.3		593.2	7	4,152.4	4,437.7
10		3,599.60			4,437.7	4,437.7
11	847.6		554.7	8	4,437.7	5,285.3
12	723.6		587.3	9	5,285.3	6,008.9
13	667.9		600.9	10	6,008.9	6,676.8
14	729.5		607.0	11	6,676.8	7,406.3
15	694.6		617.2	12	7,406.3	8,100.9
16	115.0		623.1	13	8,100.9	8,215.9
17		3,778.24			8,215.9	8,215.9
18	763.1		586.9	14	8,215.9	8,979.0
19	778.1		598.6	15	8,979.0	9,757.1
20	614.2		609.8	16	9,757.1	10,371.3
21	654.7		610.1	17	10,371.3	11,026.0
22	716.2		612.6	18	11,026.0	11,742.2
23	96.9		618.0	19	11,742.2	11,839.1
24		3,623.18			11,839.1	11,839.1
25	697.8		592.0	20	11,839.1	12,536.9
26	669.5		597.0	21	12,536.9	13,206.4
27	640.2		600.3	22	13,206.4	13,846.6
28	716.0		602.0	23	13,846.6	14,562.6
29	683.3		606.8	24	14,562.6	15,245.9
30	73.5		609.8	25	15,245.9	15,319.4
31		3,480.26			15,319.4	15,319.4
Month Total						
15,319.4						

Chrin Brothers Sanitary Landfill 2022 Leachate Flow Summary

Leachate

Reading Date	Month	Reading	Monthly Flow	Gallons Per Day	GPD Per Acre	Quarterly Flows			
						Flow	Gal/Day	GPD/Ac	
12/31/2021	DEC	18,970,844	1,205,254						
1/31/2022	JAN	327,946	913,112	29,455	279				
2/28/2022	FEB	2,010,076	1,682,130	60,076	569				
3/31/2022	MAR	4,003,208	1,993,132	64,295	609	4,588,374	50,982	483	
4/30/2022	APR	6,449,176	2,445,968	81,532	772				
5/31/2022	MAY	8,938,336	2,489,161	80,296	760				
6/30/2022	JUN	10,447,837	1,509,501	50,317	476	6,444,629	70,820	671	
7/31/2022	JUL	11,536,727	1,088,890	35,125	333				
8/31/2022	AUG	0	-11,536,727	-372,152	-3,524				
9/30/2022	SEP	0	0	0	0	-10,447,837	-113,563	-1,075	
10/31/2022	OCT	0	0	0	0				
11/30/2022	NOV	0	0	0	0				
12/31/2022	DEC	0	0	0	0	0	0	0	
Total Yearly Flow						1,790,420	4,905	46	

1. There are 105.6 acres of area contributing to the leachate flows, 30 acres of the old unlined landfill and 75.6 acres of lined landfill.
2. Chrin changed flowmeters and the sewer discharge location to MH-2 on April 7, 2014.

CHRIN ODOR COMPLAINT LOG (1225 Industrial Dr., Easton, PA 18042)

Date	Time	Address	Distance from Landfill (miles)	Weather Data (Allentown KABE) www.wunderground.com			Residence / Drive-by	Description / Notes	Gas Management Data					Date of Initial Response	Addressed in Insp Report Dated
				Skies	Temperature °F	Wind (out of)			Flare 1 (scfm)	Flare 3 (scfm)	Flare 4 (scfm)	PPL (scfm)	Total (scfm)		
01/23/22	9:47	Merion Ln., Easton	1.744		20	West 2-6mph	Residence	heavy gas odor & methane smell from the landfill on property.		521	674		1195	01/27/22	02/02/22
03/15/22	9:33	Merion Ln., Easton	NA		45	Northeast 0-1mph	Drive-by	Drive-by complaint. The entire length of the landfill is giving off a horrible gas odor.		1447			1447	03/25/22	05/06/22
06/08/22	10:15	unknown	unknown		72	North/Northeast 3-8mph	unknown	Odor complaint called in to Chrin Landfill (not received by PADEP). Chrin followed-up on 6/8/22.		1458			1458	06/08/22	07/05/22
07/15/22	13:34	Morvale Rd., Easton	0.194		81	Northeast 3-6mph	Residence	Want to report a sour smell in my yard. The smell is coming from Chrin Bros. landfill. It's a sour, putrid smell. I can smell it in my yard and in my house.		1412			1412	07/15/22	08/09/22

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