

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	Joseph Klobusicky	Title	Environmental Manager
		Telephone #	1
Lead Inspector	AMY E FAULCH	Title	SLD WSTE SUPV
Additional Personnel	MAATTHEW GLOGOWSKI	Title	----
Site ID	238053	Client ID	42952
PF ID	240650	SF ID	201820
Inspection Start Date	09/26/2022 08:43 AM	Inspection End Date	09/28/2022 02:00 PM
Inspection Type	RTNC - Routine/Complete Inspection	Inspection Result	No Violations Noted
Permit Expiration Date	01/06/2030	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 273.201(c)(2) 273.112(1).		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

No Violation	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
Not Determined	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 12/01/2022		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 September 26, 2022 and a routine partial inspection and waste hauler inspection event on September 28, 2022 at Chrin Bros. Sanitary Landfill (Chrin). Representing the Department on 9/26/22 was Amy Faulch (this inspector), Matthew Glogowski and Chris Madden. Joseph Klobusicky provided a site tour and was interviewed on behalf of Chrin. See the 9/26/2022 odor patrol log for weather details. Representing the Department on 9/28/22 was this inspector, Mathew Vipond and Jeremy Scheivert. Tom McMonigle provided a site tour and was interviewed on behalf of Chrin. See narratives below.

The following Department personnel have entered the landfill since the 8/9/22 inspection: A. Faulch and M. Glogowski on 8/9/22; A. Faulch, M. Glogowski and C. Madden on 9/26/22; M. Glogowski on 9/27/22; A. Faulch, M. Vipond and J. Scheivert on 9/28/22.

9/26/22 SITE TOUR:

Prior to entering the landfill, this inspector and Chris Madden conducted an odor patrol in the areas surrounding the landfill. A light, intermittent gas odor was detected at the I-78E exit ramp. A light, intermittent "spray paint" odor was detected along Auburn Dr. A light, intermittent gas odor was detected at the intersection of Industrial Dr. and Morgan Hill Rd. A light, intermittent gas odor was detected along Industrial Dr. just east of the landfill entrance and along Morgan Hill Rd. See attached 9/26/22 odor patrol log for details.

This inspector, Mr. Glogowski and Mr. Madden entered the landfill at 0955 hours. During the site tour, this inspector and Mr. Glogowski accompanied Mr. Madden for surface monitoring in the 3D & 3E area. Several elevated methane readings and gas odors were detected in the 3D area. See attached Surface Methane Monitoring Field Sheet. Some areas of note include: GW-139 had a disconnected hose (hose was re-connected during this inspection); A nick in the vacuum line was observed near GW-145; and a low point in a condensate line was observed near GW-202. Chrin conducted follow-up monitoring for the areas of elevated readings on 9/27/22. See attached.

While walking the slopes, this inspector observed some waste flagging in the 3D area, and some washout erosion and flagging on the benches in 3E. Two trucks were dumping at the working face in Cell 3E. No odor was detected to the west of the working face. A hose was spraying water and odor neutralizer on the working face. Perimeter line odor control misters were in operation.

Chrin is preparing the Stage 3D area for final capping, and an anchor trench was dug at the bottom of 3D. The preparations for final capping may explain some of the elevated methane readings in the 3D area. Work has begun on the installation of leachate tank #4. Chrin has continued blasting in the expansion area, and liner installation is complete in Stage 9B. The site area on the north side of Industrial Drive has been cleared in preparation for the new maintenance building.

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.

9/26/22 SITE TOUR (efacts ID# 3437977) & WASTE HAULER INSPECTION OPERATION:

On September 28, 2022 the Waste Management program of the Bethlehem District Office conducted a

Waste Hauler Inspection Program (WHIP) event at Chrin. 66 hauler trucks were inspected with three violations issued: one for a leaking truck; one for improper signage; and one for no written waste hauler authorization with the vehicle.

Prior to the site tour, an odor patrol was conducted in the area surrounding Chrin. A light, intermittent gas odor was detected along Spring Valley Rd. Near Mt. Top. A light, intermittent "burning wood/leaves" odor was detected along Waltman Loop Ln. A light, intermittent gas and garbage odor was detected along Morvale Rd. Just before Industrial Dr. A light, intermittent "odor mister" odor was detected along Industrial Dr.

During this site tour, three trucks were dumping in 3E. A light garbage odor was detected in the working face area. Some waste flagging was observed in the former 9A working face area. Some gas odor was also detected in the 3D area. The line misters were in operation and a spray bar mister was in operation near 3D. Flare 3 was running at 1487 scfm and at 1749°F. Chrin is working on hooking up the utility flare during the capping project in 3D, as per Mr. McMonigle.

COMPLAINT INVESTIGATIONS:

The Department received no odor complaint since the last inspection on 8/9/22. Williams Twp. received one odor complaint on 9/20/22, which Chrin followed up on 9/20/22. See attached odor complaint log.

The Department conducted odor patrols on 8/23/22, 9/26/22 and 9/28/22.

Check List Comments

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

Remark: Chrin had nineteen overweight trucks in August 35 overweight trucks in September 2022.

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

Remark: Line items #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: 8/22/22: 845 tons; 9/6/22: 890 tons.

Line Item 25 - Operator implements radiation protection action plan.

Remark: Line item # 25-31: Chrin's handheld radiation meter was last calibrated on 8/12/22. Radiation source checks were reviewed on site. Chrin has had no radiation hits since the last inspection.

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

Remark: Some waste flagging was observed in the 3D area. This area is scheduled to be capped the week of 10/3/22.

Line Item 63 - Soil erosion and sedimentation controls designed and implemented as per approved plans; gullies over nine inches repaired.

Remark: Some washout erosion and flagging was observed on the benches in 3E. Chrin is reminded to repair rails and gullies in accordance with 25 Pa. Code 273.242.

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

Remark: Leachate flow rates: August: 43,092 gallons per day. September: 51,837 gallons per day.

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

Remark: 1) 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. 2) Several elevated methane readings were identified at gas wells and drains in the 3D and 3E areas of the landfill. Chrin provided a follow-up to these elevated readings on 9/27/22. Capping of 3D began the week of 10/3/22.

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	10/12/2022

Surface Methane Monitoring
Calibration Form



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site: Chim Landfill

Date: 9/26/2022

Model: _____

Serial #: _____

Weather: _____

Wind: _____

Zero Accepted (Y/N): Y

Span Accepted (Y/N): Y

Response Time (450 ppm)

T₁: 4.00 sec

T₂: 3.46 sec

T₃: 4.01 sec

Avg Response: 3.82 sec

Ok if response is <30 sec

Calibration Precision (500 ppm)

R₁: 503 ppm

R₂: 499 ppm

R₃: 502 ppm

$$\frac{|500-R_1| + |500-R_2| + |500-R_3|}{3(500)} \times 100 = \underline{0.27} \%$$

Ok if deviation is <10%

Calibrated by: C. Madden

Surface Methane Monitoring
Field Sheet



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Landfill	Cherry Bros.	Inspection Date	9/26/22
Specialist	C. Madden A. Fawcett	Date Instrument was last calibrated	9/26/2022
Background Location (Upwind of Facility)	Cherry Park	Background Value (FID Reading ppm)	3.1

Time	Location	FID Reading ppm	Comment
1016	EW-09	710,000	gas odor near well.
1020	DR-098	2972	gas odor near well.
1023	EW-147	2998	
1025	EW-008	710,000	gas odor near well
1027	GW-139	710,000	hose was disconnected well turned off during monitoring
1032	EW-07	710,000	gas odor @ well
1034	Hw 36	710,000	
1041	well upslope of EW-09	815	
1046	GW 200	53.2	
1048	GW 201	16.4	
1051	GW 202	28.2	low point in condensate line. slight gas odor
1056	GW 145	110	nick in vacuum line gas odor near well
1059	EW New	4073	
1101	EW 011	2009	

Time	Location	FID Reading ppm	Comment
1103	Pw 11	59.8	
1105	EW006	4441	
1107	EW012	41.0	
1108	PW 24	141	
1113	HW038	1245	
1116	EW 15	710,000	gas odor near well
1117	HW039	29.6	
1120	EW013	35.1	tall grass near well
1122	EW014	55.1	
1126	GW 204	14.2	
1127	GW 203	3066	
1130	GW 206	8.1	
1134	GW 205	1517	
1144	HW034 3D Trap 2?	13.4	
1145	HW034	25.0	
1147	Cleanouts just S of DR097	468	
1148	DR097	1054	
1152	head just S of DR096	710,000	
1154	DR096	2403	
1159	DR095	1064	
1202	HW035	10.2	
1203	DR094	9.1	

Location: *Chrin Bros. Sanitary Landfill,
Williams Twp., Northampton County*
Date/Time: *9/26/22 10:00 hours*
Photographer: *Joseph Klobusicky, Chrin
Landfill Environmental Manager*
Remarks: *Provided via email*
Initials:



Photo 1: Disconnected hose at Gas Well GW-139.



Photo 2: Disconnected hose at Gas Well GW-139.



Photo 3: Low point in condensate line at GW-202.



Photo 4: Nick in header pipe at GW-145.



Photo 5: Some washout and erosion in 3E bench.



Photo 6: Some washout erosion and flagging in 3E bench.

Investigator: A Faulch Date: 8/23/22
 Weather Conditions: Cloudy, 78°F, wind W @ 5mph, 63% H

CASE: Chmn Landfill

ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR INTENSITY	ODOR DURATION	ODOR DESCRIPTION	COMMENTS & OBSERVATIONS
		S = Strong M = Moderate SL = Slight N = None	P = Persistent I = Intermittent N = None	EG = Rotten Egg LFG = Landfill Gas G = Garbage S = Sewage D = Dredge O = Other (describe)	
1-78	1256	N			EFFECTS ID# 3410926
Mex Industrial	1259	N			
Cedarville	1300	N			
Knollwood	1302	N			
Auburn	1303	N			
Sewage Treatment Plant	1306	N			
Congressional	1308	N			
Clubhouse	1310	N			
Turnberry	1311	N			
Water Tower	1312	N			
Clubhouse	1313	N			
Pinehurst	1314	N			
Bethpage	1315	N			
Waterford	1315	N			
Prestwick	1316	N			
Old Course	1316	N			
St. Andrew	1317	N			
Oak Hill	1317	N			

Date: 8/23/22

CASE:

Chris Landfill

Weather Conditions: Cloudy. 78°F. Wind NE @ 8 mph. C30% H.

Weather Conditions: Cloudy, 78°F, Wind W@8mph, 63% H.

ODOR PATROL SURVEY

[illegible]

Investigator: A. Faulstich / C. Date: 9/26/22 CASE: Chrin Landfill
 Weather Conditions: Fair, 55°F, wind SW @ 7 mph, 89% H. 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	843	SL	1	LFG	light gas odor on exit ramp
MHD Industrial	845	N			
Cedarville	846	N			
Knollwood	847	N			
Auburn	848	SL	1	O	light "spray paint" odor
Sewage Trt. Plant	851	N			
Congressional	854	N			
Clubhouse	855	N			
Eagles Creek	856	N			
Turnberry	857	N			
Merion	857	N			
Water Tower	858	N			
Clubhouse	900	N			
Pinehurst	901	N			
Bethpage	903	N			
Waterford	904	N			
Prestwick	905	N			
Old Course	905	N			

Investigator: A. Faulstich / C. Madden Date: 9/26/22
 Weather Conditions: _____

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
St Andrews	906	N			
Oak Hill	907	N			
Pine Valley	908	N			
Clubhouse	911	N			
Congressional	912	N			
Cedarville	913	N			
MHR Industrial	914	SL	1	LFG	light gas odor @ intersection
MHR	914	N			
Spring Valley	915	N			
Mt. Top	920	N			
Waltman Loop	921	N			
Marvale	923	N			
Industrial	926	SL	1	LFG	light gas odor just E of entrance near MHR
MHR	929	N			
Industrial Dr N	930	N			
Hilton	930	N			
MHR	937	N			
Industrial	937	N			

CASE: Chrin Landfill
ODOR PATROL SURVEY

[illegible]

Investigator: J. Scheinert Date: 28 September 2012
 Weather Conditions: 58°F Mostly Sunny W 5 mph H = 73%

CASE: Chin Loxfill
 ODOR PATROL SURVEY

SURVEY LOCATION	TIME	ODOR		DESCRIPTION	COMMENTS & OBSERVATIONS
		INTENSITY S = Strong M = Moderate SL = Slight N = None	DURATION P = Persistent I = Intermittent N = None		
Emelsthal Ave	1043	N			EFACTS # 3435345
Cedarville Rd	1046				
Cedar Hill Blvd	1051				
Alburn Dr.	1051				
Knollwood Dr	1052				
Redner Ave Blvd	1053				
Cedarville Rd	1054				
Congressional Dr.	1055				
Clubhouse Dr.	1057				
Engels Creek CT	1058				
Turnberg Dr.	1058				
Menden LN	1058				
Turnberg Dr.	1100				
Clubhouse Dr.	1101				
Pinehurst Dr.	1102				
Clubhouse Dr.	1103				
St Andrews Way	1104				
Waterford Ter	1105	N			

Investigator: D. ScheiderDate: 28 September 2022CASE: Chum Landfill

ODOR PATROL SURVEY

Weather Conditions: _____

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
<u>Prescott Dr</u>	<u>1106</u>	<u>N</u>			
<u>Eden Ter</u>	<u>1106</u>				
<u>Old Cove Ln</u>	<u>1107</u>				
<u>St. Andrews Way</u>	<u>1107</u>				
<u>Oldhouse Dr.</u>	<u>1108</u>				
<u>Pine Valley Ter</u>	<u>1108</u>				
<u>Clashouse Dr.</u>	<u>1110</u>	<u>N</u>			
<u>Margaret Hill Rd.</u>	<u>1111</u>				
<u>Spry Valley Rd</u>	<u>1112</u>	<u>SL</u>	<u>I</u>	<u>LFG</u>	<u>Near Old for Community First Maintenance building.</u>
<u>Martinez Top Dr.</u>	<u>1116</u>	<u>M</u>			
<u>Maltman Loop Ln</u>	<u>1116</u>	<u>SL</u>	<u>I</u>	<u>O</u>	<u>Burny Landfill</u>
<u>Margaret Hill Rd</u>	<u>1118</u>	<u>N</u>			
<u>Musale Rd</u>	<u>1120</u>	<u>SL</u>	<u>I</u>	<u>LFG/G</u>	<u>Rolls? 1 mile off just before Industrial</u>
<u>Teichbush Dr.</u>	<u>1123</u>	<u>SL</u>	<u>I</u>	<u>O</u>	<u>odor meter</u>
<u>Margaret Hill Rd</u>	<u>1126</u>	<u>N</u>			
<u>W. Rockledge Dr. N. 12</u>	<u>1127</u>				
<u>1414 Ave SE</u>	<u>1129</u>				
<u>Industrious Ave N. 12</u>	<u>1134</u>				
<u>Bellway</u>	<u>1134</u>	<u>N</u>			

Fuel

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
09/20/22	9:38	Spring Valley Rd., Easton	unknown		69	West/Northwest 1-6mph	unknown	Odor complaint called in to Williams Twp. (not received by PADEP) "The smell is unbearable from the dump." Chrin followed up on 9/20/22.		1611				09/20/22	09/26/22

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	684.4		612.8	8	4,902.6	20,222.0
10	611.8		612.7	9	5,514.4	20,833.8
11	649.7		616.4	10	6,164.1	21,483.5
12	584.9		613.5	11	6,749.0	22,068.4
13	88.7		569.8	12	6,837.7	22,157.1
14		3,282.80			6,837.7	22,157.1
15	679.8		578.3	13	7,517.5	22,836.9
16	717.9		588.2	14	8,235.4	23,554.8
17	633.3		591.2	15	8,868.7	24,188.1
18	648.1		594.8	16	9,516.8	24,836.2
19	574.3		593.6	17	10,091.1	25,410.5
20	86.0		565.4	18	10,177.1	25,496.5
21		3,339.40			10,177.1	25,496.5
22	845.7		580.1	19	11,022.8	26,342.2
23	772.9		589.8	20	11,795.7	27,115.1
24	662.5		593.2	21	12,458.2	27,777.6
25	695.4		597.9	22	13,153.6	28,473.0
26	654.6		600.4	23	13,808.2	29,127.5
27	73.4		578.4	24	13,881.6	29,200.9
28		3,704.45			13,881.6	29,200.9
29	720.0		584.1	25	14,601.6	29,920.9
30	662.3		587.1	26	15,263.9	30,583.2
31	694.0		591.0	27	15,957.9	31,277.2
Month Total						
15,957.9						

2022	Daily	Total Week	Month Average	Day	Total Month	Total Quarter
September						
1	577.0		577.0	1	577.0	31,854.2
2	660.7		618.9	2	1,237.7	32,514.9
3	117.5		451.7	3	1,355.2	32,632.4
4		3,431.50			1,355.2	32,632.4
5	HOLIDAY				1,355.2	32,632.4
6	890.4		561.4	4	2,245.6	33,522.8
7	830.8		615.3	5	3,076.4	34,353.6
8	770.7		641.2	6	3,847.1	35,124.3
9	689.3		648.1	7	4,536.4	35,813.6
10	195.7		591.5	8	4,732.1	36,009.3
11		3,376.90			4,732.1	36,009.3
12	741.3		608.2	9	5,473.4	36,750.6
13	736.9		621.0	10	6,210.3	37,487.5
14	728.2		630.8	11	6,938.5	38,215.7
15	714.0		637.7	12	7,652.5	38,929.7
16	652.4		638.8	13	8,304.9	39,582.1
17	103.4		600.6	14	8,408.3	39,685.5
18		3,676.20			8,408.3	39,685.5
19	845.7		616.9	15	9,254.0	40,531.2
20	826.2		630.0	16	10,080.2	41,357.4
21	704.4		634.4	17	10,784.6	42,061.8
22	662.1		635.9	18	11,446.7	42,723.9
23	658.9		637.1	19	12,105.6	43,382.8
24	67.8		608.7	20	12,173.4	43,450.6
25		3,765.10			12,173.4	43,450.6
26	770.2		616.4	21	12,943.6	44,220.8
27	720.4		621.1	22	13,664.0	44,941.2
28	524.4		616.9	23	14,188.4	45,465.6
29	727.6		621.5	24	14,916.0	46,193.2
30	641.5		622.3	25	15,557.4	46,834.7
		3,384.03				
Month Total						
15,557.4						
Quarter Total						
46,834.7						

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	12,872,583	1,335,856	43,092	408			
9/30/2022	SEP	14,427,679	1,555,096	51,837	491	3,979,842	43,259	410
10/31/2022	OCT	0	-14,427,679	-465,409	-4,407			
11/30/2022	NOV	0	0	0	0			
12/31/2022	DEC	0	0	0	0	-14,427,679	-156,823	-1,485
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.

Faulch, Amy

From: Faulch, Amy
Sent: Tuesday, August 23, 2022 9:36 AM
To: Joe Klobusicky
Subject: RE: [External] storm issues

Thank you Joe for the notice.

Amy E. Faulch | Solid Waste Supervisor
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.509.8988 | Fax: 610.861.2072
www.depweb.state.pa.us

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Tuesday, August 23, 2022 7:55 AM
To: Faulch, Amy <a Faulch@pa.gov>
Subject: [External] storm issues

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Hi Amy,
Some pretty strong storms came through here late yesterday / last night.
We experienced some erosion issues, road washout (east end exit road).....these are being addressed as of early this morning.

Joe k

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Wednesday, August 24, 2022 11:16 AM
To: Faulch, Amy
Subject: RE: [External] FW: odor on Spring Valley Rd.

Your welcome.

We put two additional mister trucks above 9A/B area also today.....

From: Faulch, Amy <a Faulch@pa.gov>
Sent: Wednesday, August 24, 2022 11:13 AM
To: Joe Klobusicky <jklobusicky@chrin.org>
Subject: RE: [External] FW: odor on Spring Valley Rd.

OK, thank you Joe for the follow-up.

Amy E. Faulch | Solid Waste Supervisor
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.509.8988 | Fax: 610.861.2072
www.depweb.state.pa.us

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Wednesday, August 24, 2022 8:05 AM
To: Faulch, Amy <a Faulch@pa.gov>
Subject: [External] FW: odor on Spring Valley Rd.

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Hi Amy,
Here is Tom's response.....

From: Tom McMonigle <tmcmonigle@chrin.org>
Sent: Wednesday, August 24, 2022 7:09 AM
To: Joe Klobusicky <jklobusicky@chrin.org>
Subject: RE: odor on Spring Valley Rd.

I didn't get anything, but I was up in that area around 2:00 pm.

Tom McMonigle, PE
Chrin Brothers, Inc.
1225 Industrial Drive
Easton, PA 18042

484-546-2579 (Office)

215-983-2244 (Mobile)

tmcmonigle@chrin.org

From: Joe Klobusicky <jklobusicky@chrin.org>

Sent: Tuesday, August 23, 2022 4:53 PM

To: Tom McMonigle <tmcmonigle@chrin.org>

Subject: Fwd: odor on Spring Valley Rd.

Hi Tom,

Did you get anything on the end of day patrol?

Joe k

Get [Outlook for Android](#)

From: Faulch, Amy <afaulch@pa.gov>

Sent: Tuesday, August 23, 2022 3:00:00 PM

To: Joe Klobusicky <jklobusicky@chrin.org>

Subject: odor on Spring Valley Rd.

Hi Joe,

I was just out this afternoon on an odor patrol, and got a very light, but detectable, garbage odor at the end of Spring Valley Rd. You may have already done the end of the day odor patrol, but if not, could someone follow-up in this area?

Thank you Joe,

Amy E. Faulch | Solid Waste Supervisor
Department of Environmental Protection | Waste Management
Bethlehem District Office
4530 Bath Pike | Bethlehem, PA 18017
Phone: 610.509.8988 | Fax: 610.861.2072
www.depweb.state.pa.us

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, August 26, 2022 7:46 AM
To: Faulch, Amy; Katie Faubert; Melody Ernst; Mikal Sabatine
Subject: [External] odor on Industrial Drive this morning.....

Importance: High

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FYI – A trash truck (Berger #434) was leading liquid on Industrial Drive and onsite as it came in to dump this morning (6:30am). The liquid had a strong odor to it on Industrial Drive and onsite. We utilized a water truck with odor neutralizer and the odor started to dissipate around 7:30am.
Please let me know if you have any questions. Thank you.

Sincerely,

Joe Klobusicky

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Tuesday, September 20, 2022 1:00 PM
To: Katie Faubert; 'black.joe@rcn.com'; Mikal Sabatine; Faulch, Amy
Cc: Tom McMonigle; Charlie R Chrin; Gregchrin@aol.com
Subject: [External] RE: odor complaint

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I did an odor patrol and there were no odors on Spring Valley Road / Cell tower area at 12:40pm

From: Joe Klobusicky
Sent: Tuesday, September 20, 2022 10:56 AM
To: Katie Faubert <kfaubert@williamstwp.org>; 'black.joe@rcn.com' <black.joe@rcn.com>; Mikal Sabatine <MSabatine@williamstwp.org>; Faulch, Amy <afaulch@pa.gov>
Cc: Tom McMonigle <tmcmonigle@chrin.org>; Charlie R Chrin <charliec@chrin.org>; Gregchrin@aol.com
Subject: RE: odor complaint

FYI – we will monitor throughout the day.

Odor patrol summary:

*Weis market load at the working face approx. 9:30 – 9:45am

- Leave landfill 9:44am – no odor along Industrial Drive
- Arrive on Spring Valley Road Cell tower at 9:53am – no odor along Spring Valley Road
- Light intermittent working face odor at the cell tower – 9:58am
- Odor starting to dissipate at the cell tower approx. 10:10am
- Leave Spring Valley Road 10:20am
- Arrive at Landfill working face 10:27am (odor noted directly at working face)
- Water truck operating at the working face
- Perimeter misters also operating.

*Additional mister / water truck added downwind of the working face towards Spring Valley road / cell tower area.

Tuesday, September 20, 2022

Time	Temperature	Dew Point	Humidity	Wind	Speed	Gust
9:04 AM	69.1 °F	0.0 °F	0 %	WNW	1.7 mph	4.6 mph
9:09 AM	69.3 °F	0.0 °F	0 %	NW	0.9 mph	6.0 mph
9:14 AM	69.6 °F	0.0 °F	0 %	NW	0.8 mph	6.0 mph
9:19 AM	69.8 °F	0.0 °F	0 %	NNW	1.6 mph	7.3 mph
9:24 AM	69.9 °F	0.0 °F	0 %	WNW	1.1 mph	9.0 mph
9:29 AM	70.0 °F	0.0 °F	0 %		3.1 mph	9.0 mph
9:34 AM	69.9 °F	0.0 °F	0 %	NNW	2.2 mph	6.2 mph
9:39 AM	69.9 °F	0.0 °F	0 %	WNW	1.3 mph	6.0 mph

9:44 AM	70.1 °F	0.0 °F	0 %		1.5 mph	6.0 mph
9:49 AM	70.4 °F	0.0 °F	0 %	NNW	1.3 mph	6.0 mph
9:54 AM	70.7 °F	0.0 °F	0 %	NNW	2.2 mph	6.0 mph
9:59 AM	70.8 °F	0.0 °F	0 %		1.8 mph	6.0 mph
10:04 AM	70.9 °F	0.0 °F	0 %	NNW	2.6 mph	5.2 mph
10:09 AM	70.9 °F	0.0 °F	0 %	NNW	1.9 mph	8.0 mph
10:14 AM	70.9 °F	0.0 °F	0 %		3.6 mph	8.0 mph
10:19 AM	70.9 °F	0.0 °F	0 %	WNW	1.9 mph	8.0 mph
10:24 AM	71.2 °F	0.0 °F	0 %	NNW	2.1 mph	8.0 mph
10:29 AM	71.5 °F	0.0 °F	0 %		1.3 mph	8.3 mph
10:34 AM	71.8 °F	0.0 °F	0 %	NNW	1.6 mph	5.0 mph
10:39 AM	71.9 °F	0.0 °F	0 %	NNW	2.1 mph	5.0 mph

From: Katie Faubert <kfaubert@williamstwp.org>

Sent: Tuesday, September 20, 2022 9:37 AM

To: 'black.joe@rcn.com' <black.joe@rcn.com>; Joe Klobusicky <jklobusicky@chrin.org>; Mikal Sabatine <MSabatine@williamstwp.org>

Subject: odor complaint

Good morning,

I received a phone call to the Municipal Office: odor complaint from Spring Valley Road this morning at 9:38am. "The smell is unbearable from the dump" was the caller's exact words.

Katie

Katherine Faubert, Administrative Assistant

Williams Township

655 Cider Press Road, Easton, PA 18042

T: 610-258-6788 | F: 610-258-6080

www.williamstwp.org

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Friday, September 30, 2022 10:25 AM
To: Faulch, Amy; Madden, Christopher; Glogowski, Matthew
Subject: [External] Sept 26th surface monitoring follow-up
Attachments: IMG_2119.JPG; September 2022 DEP Inspection Follow Ups.xlsx; surface monitoring field notes september 26 2022.pdf

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FYI – attached is the initial follow-up readings for the exceedances noted on Monday, September 26th. Also attached is a photo of the 3D capping area prep. We have been rolling / prepping the area for cap to being on Monday, October 3rd. The capping crew is onsite and preparing sandbags today.





DEP INSPECTION 9/26 FOLLOWUP
CHRIN BROTHERS SANITARY LANDFILL
SURFACE MONITORING EXCEEDENCE TRACKING FORM

Initial Exceedence Date: 9/26/2022

	Initial Reading (PPM)	10-Day Followup (PPM)	20-Day Followup (PPM)	30-Day Followup (PPM)
Monitoring Technician Initial	JS			
Monitoring Date:	9/27/2022			
Background:	0	0		0
EW09	365.1			
DR98	45.8			
GW147	1406			
EW08	76.8			
GW139	101.5			
EW07	102.8			
HW36	40.8			
WELL UPSLOAP OF EW09	40			
EW NEW	321.1			
EW11	5053			
EW06	88			
HW38	378.5			
EW15	508.7			
GW203	43.6			
GW205	69.5			
DR97	30.8			
HEAD JUST S OF DR96	108			

[illegible]

Faulch, Amy

From: Joe Klobusicky <jklobusicky@chrin.org>
Sent: Wednesday, October 12, 2022 8:10 AM
To: Faulch, Amy; Madden, Christopher; Glogowski, Matthew
Subject: [External] capping update photos
Attachments: 3D cap 10 12 2022.pdf

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Hello,
Attached are photos of the 3D/3E capping

Joe k

Capping 3D/3E Area – Lower slopes





File Distribution:

PA DEP NERO WM File-thru A. Faulch
Facility-sent via Email PDF
Williams Township- sent via Email PDF
R. Bellas/D. Ritter (email PDF)
AQ: C. Madden /M. Bardzilouskas (email PDF)
M. Glogowski (email PDF)
R. Malizia (email PDF)
A. Faulch (PDF)

Chrin: Joseph Klobusicky
jklobusicky@chrin.org

Williams Township: Melody Ernst
mernst@williamstwp.org