NGA Document 174-022: Remedial Action Report (AOC-1) PPG, Bayonne, New Jersey

Appendix P

Monitoring Well Information

Well Permit Number **E202104368**

WELL PERMIT

Modification of 2600051153

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: _	JOSEPH F NERI, JOURNEYN	MAN LICENSE # 421702	
Permit Issued to: _	ALLSTAR DRILLING & PRO	OBING LLC	
Company Address: _	31 DELRAY PL LAURENCE	E HARBOR, NJ 08879	
PROPERTY OWNER			
Name: <u>CITY OF BAY</u>	ONNE		
Organization: CITY OF I	BAYONNE		
Address: 630 Ave. C			
City: Bayonne City	State: Ne	ew Jersey	Zip Code: <u>07002</u>
PROPOSED WELL LOC	CATION		
Facility Name: Hudson C	County Chromate Orphan Site 1	174	
Address: WEST FIRST	ST. extending riser to new grou	and surface	
County: Hudson	Municipality: Bayonne Ci	Lot: 6	Block: 383
• · · · · · · · · · · · · · · · · · · ·	Northing (Y): 6602 NJ State Plane (NAD83) - USF		MW-02
SITE CHARACTERIST	ICS		
PROPOSED CONSTRU	CTION		
WELL USE: MONITOR	RING	Other Use(s):	
Diameter (in.): 2		Regulatory Program	gs:
Depth (ft.): 13			
Pump Capacity (gpm): 0			N
SPECIFIC CONDITION	S/REQUIREMENTS		

Approval Date: May 3, 2021 Expiration Date: May 3, 2022 Approved by the authority of: Shawn M. LaTourette Acting Commissioner

Well Permit -- Page 1 of 2

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E202104368

WELL PERMIT

Modification of 2600051153

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number E202104368

MONITORING WELL RECORD									
PROPERTY OWNER: CITY OF BAYONNE									
Company/Org	Company/Organization: CITY OF BAYONNE								
Address: 630 Ave. C Bayonne City, New Jersey 07002									
WELL LOCATION: Hudson County Chromate Orphan Site 174									
Address: W	EST FIRST S	T. extending ri	ser to new groun	nd surface					
County: Hu	County: Hudson Municipality: Bayonne City Lot: 6 Block: 383								
Easting (X): _593779 Northing (Y): _660244 DATE WELL STARTED: _April 9, 2021 Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: April 9, 2021									
	: MONITOR		1411003) 051		ATE WELL COM	r LETED: April 9, 20	21		
					Local ID: M\	W-02			
					Local ID. NI				
	STRUCTION Drilled (ft.):	0	Finished We	ell Depth (ft.):	13	Well Surface: Flus	sh Mount		
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)		
Borehole							,		
Caraan									
Screen			_						
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)		
Grout	- *F ()	- = = = (==)			Dentomic (100.)	ricat comont (165.)	water (gail)		
Gravel Pack									
				Dri	lling Method:				
ADDITIONAL INFORMATION Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: _ ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Drilling Fluid: Well Development Period: _ hrs. Drill Rig: Method of Development: Health and Safety Plan Submitted? Pump Type: ATTACHMENTS:									
GEOLOGIC	LOG								
ADDITION	AL INFORMA	ATION: No C	changes to well,	new manhole pl	aced on well				

JOSEPH F NERI, ALLSTAR DRILLING & PROBING Driller of Record: JOURNEYMAN LICENSE # 421702 Company: LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(i or Dopartmont acc ciny)						
SECTION A. SITE NAME AND LOCATION							
Site Name: Hudson County Chromate Site 174							
List all AKAs: Dennis Collins Park							
Street Address: West First Street							
Municipality: City of Bayonne (Township, Borough or City)							
	ip Code: 07002						
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002						
SECTION B. WELL OWNER AND LOCATION							
Name of Well Owner City of Bayonne							
Well Location (Street Address) West First Street							
3. Well Location (Municipal Block and Lot) Block# 383	Lot # _ 8						
SECTION C. WELL LOCATION SPECIFICS							
Well Permit Number (This number must be permanently affixed to the)	e well casing):						
Site Well Number as shown on application or plans):	MW-02						
Well Completion Date:	4/9/2021						
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.0	1'):						
5. Total Depth of Well to the nearest ½ foot:	16						
6. Depth to Top of Screen (or top of open hole) from top of casing (nea	rest 0.01'): 6						
7. Screen Length (or length of open hole) in feet:	10						
8. Screen or Slot Size:	0.010						
9. Screen or Slot Material:	PVC						
10. Casing Material (PVC, steel, or other – specify):	PVC						
11. Casing Diameter (inches):	2						
12. Static Water Level from top of casing at the time of installation (near	est 0.01'): 7						
13. Yield (gallons per minute):	2						
14. Development Techinque (specify):	Pump and surge						
15. Length of Time well is developed/pumped or bailed (hours and minut	res): 0.5						



Monitoring Well Certification Form B - Location Certification

	(i or Department ass only)
SECTION A. SITE NAME AND LOCATION	
Site Name: PPG Site 174 List all AKAs: Dennis P. Collins Park	
	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
2. Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block# 383	Lot # <u>6</u>
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixe	d to the well casing): E201610683
2. Site Well Number (As shown on application or plans): MW-03	2
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40-38-43.94	Longitude: West 74-08-01.13
4. New Jersey State Plane Coordinates NAD 83 datum, US surv	ey feet units, to nearest foot:
North 660277	East 593781
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.29
Elevation Top of Outer casing: 9.79 Eleva	tion of ground: 9.79
Check one: ☐ NAVD 88 ☐ NVGD29 ☐ On Site Da	tum 🔲 Other
Source of elevation datum (benchmark, number/description ar here, assume datum of 100', and give approximated actual ele	
GPS observations using KEYNET VRS SYSTEM in	NAVD88
7. Significant observations and notes:	ATT THE STATE OF T
	Alfertania (1)
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and am information submitted in this document and all attachments and that, I those individuals immediately responsible for obtaining the information submitted information is true, accurate and complete. I am aware that penalties for submitting false information including the possibility of find the possibility of finding the possibil	pased on my inquiry of I, I believe the Ithere are significant
Professional Land Surveyor's Signature: K. Shows bugg	Date 3/22/21
Surveyor's Name: R. Thomas Hugg	License Number: 24GS03673700
Firm Name: Colliers Engineering & Design	Certificate of Authorization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108	
City/Town: Egg Harbor Twp. State	New Jersey Zip Code: 08234
Phone Number 609-910-4068 Ext.:	4419 Fax: 609-390-0040

Project No: 96-1322-1000

Project Name: RI-16, Site 174 - Dennis Collins Park

Client: NJDEP

Project Location: Hudson County, NJ

Log of Borehole: SB-17

Elevation:

Total Depth: 14.0' Start: 10/18/99 Complete: 10/18/99

Weather: Overcast, Breezy, 55 deg. F.

SUBSURFACE PROFILE					SA	MPLE					•			
three		Elevation	Description	Number	Type	Blows/ff,	Recovery	10	3(/alı		90	Remarks
ο.π	_o	0	Ground Surface 0,0'-0,3' TOPSOIL and GRASS ROOTS					Т	П	Т		T	П	0.0'-1.0' S017000
1_			0.3'-2.8' FILL red/brown clayey silt with sand, crushed mica and cobbles, damp	S1	ss	44	1.6'			44				No Chromate Waste 1.0'-2.0' S017010 No Chromate Waste
3	_ 1	-2.8	2.8'-4.0' FILL	S2	ss	50	1.7'			150	0			2.0'-2.8' S017020 No Chromate Waste 3.0'-4.0' S017020
4		-4	black coal fragments and sandstone cobbles, damp	S3	ss	68/.6	1.1'	+	+	+	1	68	H	No Chromate Waste
5-			red/brown clayey silt	33	33	007.0								5.0'-6.0' No Sample
6 7	-2	-7	7.0'-13.0' FILL dark gray and black, gravelly sand with silt and some wood	S4	ss	60	1.4'				8)		6.0'-7.0' S017060 No Chromate Waste 7.0'-8.0' S017070 No Chromate Waste 8.0'-9.0' S017080
8 - 9-			fragments, wet at 7.0'	S5	ss	48	1.0'		\prod	4	B			No Chromate Waste 9.0'-10.0' No Sample
10 <u>—</u>				S6	SS	8	1.0'	8		+		\dagger	H	10.0'-11.0' S017100 No Chromate Waste 11.0'-12.0' No Sampl
12 -		-13		S7	ss	21	1.9'	1	21	+	$\ \cdot\ $	+	H	12.0'-13.0' S017120 No Chromate Waste 13.0'-14.0' S017130
14_	-4	-14	13.0'-14.0' SANDY GRAVEL tan and gray, coarse to fine sand and gravel with silt and trace of clay (natural material)				1.0	+	\prod	_		+	+	No Chromate Waste
15_			End of Borehole											
16 - 17 -	_5													
18-								+	${f H}$	-	\vdash	+	${\mathbb H}$	_
19_	-6													
20 - 21 -				-				1				1		
22-						1		+	\mathbb{H}	\mathbb{H}	\parallel	+	+	-
23-	-7													
25-			,					$\prod_{i=1}^{n}$				$\prod_{i=1}^{n}$	\prod	



L.Robert Kimball and Associates 615 W. Highland Ave. Ebensburg, PA 15931 (814) 472-7700

Drilled by: W. Reeve/D. Caldwell

Drill rig: Mobile B-57 Checked by: J. Marhefka

Sheet: 1 of 1

Excerpted from Kimball, 2001. *Final Preliminary Site Characterization Report with Final Site Characterization Recommendations*, Site 174 – Dennis P. Collins Park, Hudson County, New Jersey

Well Permit Number **E201714311**

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863						
Permit Issued to: ENV	IRONMENTAL PROBI	ING INVESTI	GATION			
Company Address: 833 I	MONMOUTH RD CRE	EAM RIDGE,	NJ 08514			
PROPERTY OWNER						
Name: CITY OF BAYON	NE					
Organization: City of Bayonne	;					
Address: 630 Avenue C						
City: Bayonne	State: N	New Jersey		Zip Code:	07002	
PROPOSED WELL LOCATI	ON					
Facility Name: Dennis Collins	Park					
Address: W. 1st Avenue						
County: Hudson M	Iunicipality: Bayonne (City	Lot: 8		Block: _383	
Easting (X): 593901	Northing (Y): 660	0332	Local ID:	MW-101		
Coordinate System: NJ Sta	ate Plane (NAD83) - US	FEET	•			
SITE CHARACTERISTICS						
PROPOSED CONSTRUCTION)N					
WELL USE: MONITORING		Othe	er Use(s):		_	
Diameter (in.): 2			ulatory Program uiring Wells/Boring	gs:		
Pump Capacity (gpm): 0 Deviation Requested: N						
Drilling Method: Hollow Stem	Augers					
Attachments:						
SPECIFIC CONDITIONS/RE	QUIREMENTS					

Approved by the authority of:

Approval Date:December 26, 2017Bob MartinExpiration Date:December 26, 2018Commissioner

Terry Pilawski, Chief

Well Permit -- Page 1 of 2

Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201714311

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number E201714311

	MONITORING WELL RECORD								
PROPERTY OWNER: CITY OF BAYONNE									
Company/Organization: City of Bayonne									
Address: 630 Avenue C Bayonne, New Jersey 07002									
WELL LOCATION: Dennis Collins Park									
Address: W. 1st Avenue									
County: Hudson Municipality: Bayonne City Lot: 8 Block: 383									
Easting (X): 593901 Northing (Y): 660332 DATE WELL STARTED: January 15, 2018									
Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL STARTED: January 15, 2018 DATE WELL COMPLETED: January 15, 2018									
WELL USE:	MONITOR	ING							
					Local ID: MV	V-101			
	STRUCTION		Einighad Wa	11 Donth (ft):	15	Wall Surface: Eluch	Mount		
10tai Depth		15	,			Well Surface: Flush			
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		/Screen # Used /ch no.)		
Borehole	0	15	8			()			
Casing	0	5	2		PVC	Se	ch 40		
Screen	5	15	2		PVC		.010		
	Depth to	Depth to	Outer	Inner		Material			
Grout	Top (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.) 7.5		
Gravel Pack	3	15	8	2	13	Morie #1	1.5		
Grouting Met	hod: Gravity	method		Dri	lling Method: Holl	ow Stem Augers			
_	AL INFORMA					S			
	sing: <u>No</u>				mp Capacity: _ gpm				
Protective Casing: No Pump Capacity: _ gpm Static Water Level: _7_ft. below land surface Total Design Head: _ ft.									
Static Water l		Water Level Measure Tool: <u>Tape</u> Drilling Fluid:							
Static Water I Water Level I	Measure Tool:					20			
Static Water I Water Level I Well Develop Method of De		<u>.5</u> hrs.		Dri	lling Fluid: ll Rig: <u>Geoprobe 77/</u> alth and Safety Plan				
Static Water l Water Level l Well Develop	Measure Tool: oment Period:	<u>.5</u> hrs.		Dri	ll Rig: Geoprobe 772				
Static Water I Water Level I Well Develop Method of De	Measure Tool: oment Period: evelopment: <u>Su</u>	<u>.5</u> hrs.		Dri	ll Rig: Geoprobe 772				
Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC	Measure Tool: pment Period: evelopment: Sue ENTS:	.5 hrs. ubmersible		Dri	ll Rig: Geoprobe 772				
Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black 0	Measure Tool: Development: Survey ENTS: CLOG OT - Other Asp	.5 hrs. ubmersible	i vturec	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	iixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Development: Survey ENTS: CLOG OT - Other Asp	.5 hrs. ubmersible phalt nds, sand-silt m	ixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	ixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	ixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	ixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	iixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	iixtures	Dri	ll Rig: Geoprobe 772				
Water Level I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	Measure Tool: Dependent Period: Development: Survelopment:	.5 hrs. ubmersible phalt nds, sand-silt m	ixtures	Dri	ll Rig: Geoprobe 772				

Carl Farley, Driller of Record: MONITORING LICENSE # 225877 ENVIRONMENTAL PROBING

Company: INVESTIGATION

Well Permit Number E202104369

			MONIT	ORING WE	<u>LL RECORD</u>			
PROPERTY OWNER: CITY OF BAYONNE								
Company/Organization: City of Bayonne								
Address: 630 Avenue C Bayonne, New Jersey 07002								
WELL LOC	ATION: De	nnis Collins Pa	ırk					
Address: W. 1st Avenue extend riser to new ground surface								
County: Hudson Municipality: Bayonne City Lot: 8 Block: 383								
Easting (X): 593904 Northing (Y): 660326 DATE WELL STARTED: May 7, 2021								
Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: May 7, 2021								
WELL USE:	MONITOR	ING						
Other Use(s)	:				Local ID: MY	W-101		
WELL CON	STRUCTION	1						
Total Depth	Drilled (ft.):_	0	Finished We	ell Depth (ft.):	14.88	Well Surface	e: Flush	Mount
	Depth to	Depth to	Diameter		Material			Screen # Used
Borehole	Top (ft.)	Bottom (ft.)	(inches)				(lbs/	ch no.)
Casing	0	4.88	2		PVC		Sc	h 40
Screen	4.88	14.88	2		PVC			010
	Depth to	Depth to	Outer	Inner		Mos	terial	
	Top (ft.)	Bottom (ft.)		Diameter (in)	Bentonite (lbs.)	Neat Ceme		Water (gal.)
Grout	• • •	, ,						<i>\(\mathcal{C}\)</i>
Gravel Pack								
Grouting Met	hod:			Dri	lling Method:			
ADDITIONAL INFORMATION Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: _ ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Drilling Fluid: Well Development Period: _ hrs. Drill Rig: Method of Development: Health and Safety Plan Submitted? Pump Type:								
ATTACHMI								
GEOLOGIC	LUG							
ADDITION/	AL INFORMA	ATION: modi	fied casing to m	atch existing or	ound surface			
	EL II W ORIVI	inou	nou cusing to in	acon existing gr	ound Suridoo			

ALLSTAR DRILLING & PROBING JOSEPH F NERI, Driller of Record: JOURNEYMAN LICENSE # 421702 Company: LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park Street Address: West First Street	
011 6017 10010 1000	T
	Township, Borough or City)
	Zip Code: 07002
	Case Tracking Number(s): RPC930002
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
2. Well Location (Street Address) West First Street	0
3. Well Location (Municipal Block and Lot) Block# 383	Lot # 8
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixed to the	ne well casing):
Site Well Number as shown on application or plans):	MW-101
Well Completion Date:	5/7/2021
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.0	0.42
5. Total Depth of Well to the nearest ½ foot:	15
6. Depth to Top of Screen (or top of open hole) from top of casing (nea	rest 0.01'): 5
7. Screen Length (or length of open hole) in feet:	10
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (near	est 0.01'): 7
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and minu	tes): 0.5



Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION Site Name: PPG Site 174	
(Township, Belod	• • • • • • • • • • • • • • • • • • • •
20000444****	
o cos maning	Number(s):
SECTION B. WELL OWNER AND LOCATION 1. Name of Well Owner City of Bayonne	
2. Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block# 383	Lot # 8
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixed to the well casing):	201714311
2. Site Well Number (As shown on application or plans): MW-101	
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40-38-44.42 Longitude: West 74	-07-59.53
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest	foot;
North 660326 East 593904	
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 6.80	
Elevation Top of Outer casing: 7.23 Elevation of ground: 7.22	
Check one: ☑ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other	
Source of elevation datum (benchmark, number/description and elevation/datum). If a here, assume datum of 100', and give approximated actual elevation (referencing NA)	an on-site datum is used, identify VD 88).
GPS observations using KEYNET VRS SYSTEM in NAVD88	
7. Significant observations and notes:	h.
	Section of the Section
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Professional Land Surveyor's Signature:	.Date (۱۳۷۵/21
Surveyor's Name: R. Thomas Hugg Licer	nse Number: 24GS03673700
Firm Name: Colliers Engineering & Design Certificate of Aut	horization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108	
City/Town: Egg Harbor Twp. State New Jersey	Zip Code: 08234
Phone Number 609-910-4068 Ext.: 4419	Fax: 609-390-0040

WELL NUMBER MW-101 APTIM 17 Princess Road

•			•	. •	•
	٦ ٨	\sim		\circ	4

CLIENT P	PROJECT NAME Site 174	
	BER 631230830 PROJECT LOCATION West 1st Street, Bayonne, N	
	D1/15/18 COMPLETED1/15/18 GROUND ELEVATION7.25 ft HOLE SIZE	E 2 inches
	TRACTOR EPI GROUND WATER LEVELS:	
	HOD Track mounted geoprobe \$\sum_{\text{AT TIME OF DRILLING}} \frac{7.50 \text{ ft / Elev -0.25 \text{ ft}}}{2.25 \text{ ft / Elev -0.25 \text{ ft}}}\$	
	CHECKED BY CL AT END OF DRILLING	
	AFTER DRILLING	
O DEPTH O (ft) SAMPLE TYPE	DHAPO DOJ MATERIAL DESCRIPTION	
0.0	Brown sandy SILT, some medium sub angular gravel, semi dense, dry	
2.5		
5.0	5.0 Brown sandy SILT, little fine sub angular gravel, semi dense, moist	
7.5		
7.5	7.5 ∇ Brown sandy SILT, little fine sub angular gravel, semi dense, wet	
-		
-	Brown SILT, some medium sub angular gravel, some sand lenses, semi dense, wet	
_		
10.0	10.0 Brownish Red medium to coarse SAND, some silts, semi dense, wet	
_	Diownish red medium to coalse ontro, some sitts, serili delise, wet	
	11.0	
12.5	Brownish Red SILT, some fine to medium sands, little medium sub angular gravel, semi dense, w	ret
_		
15.0		

Well Permit Number E201714312

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

EYMAN LICENSE # 0017863	
NG INVESTIGATION	
EAM RIDGE, NJ 08514	
ew Jersey	Zip Code: _07002
City Lot: 6	Block: _383
D157 Local ID:	MW-103
FEET	
Other Use(s):	
Regulatory Program Requiring Wells/Borin	gs:
	gs
	N
	ew Jersey City Lot: 6 D157 Local ID: FEET Other Use(s): Regulatory Program Requiring Wells/Borin Case ID Number: Deviation Requested:

Approved by the authority of:

Approval Date: December 26, 2017 **Bob Martin** Expiration Date: December 26, 2018

Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201714312

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E201714312**

			MONIT	ORING WE	LL RECORD		
PROPERTY	OWNER: _	CITY OF BAY	YONNE				
Company/Org	ganization: <u>C</u>	ity of Bayonne					
Address: 63	30 Avenue C B	ayonne, New J	Jersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	ark				
Address: W	'. 1st Avenue						
County: Hu	dson	Municipality	y: Bayonne Cit	ty	Lot: 6	Block: 38	3
County: Hudson Municipality: Bayonne City Lot: 6 Block: 383 Easting (X): 593796 Northing (Y): 660157 DATE WELL STARTED: January 15, 2018							
Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 15, 2018							
WELL USE:	MONITOR	ING				·	
					Local ID: M	W-103	
	STRUCTION		Einiah a 4 Wa	11 Daniela (64).	15	Wall Confess. Elec	h Manut
I otai Deptn		15		ıı Deptn (π.):	15	Well Surface: Flus	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	0	15	8			(IO)	of CIT IIO.)
Casing	0	5	2		PVC	S	Sch 40
Screen	5	15	2		PVC		.010
	Depth to	Depth to	Outer	Inner		Material	
G .	Top (ft.)	Bottom (ft.)			Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack	3	3 15	8	2 2	15	Morie #1	7.5
			Ü		lling Method: Ho		
ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI	ATTACHMENTS:						
	OT - Other To						
	•	nds, sand-silt m	nixtures				
ADDITION	AL INFORMA	ATION:					

Carl Farley,
Driller of Record: MONITORING LICENSE # 225877

ENVIRONMENTAL PROBING

Company: INVESTIGATION

Well Permit Number E202104367

			MONIT	ORING WEI	LL RECORD			
PROPERTY	OWNER: _	CITY OF BA	YONNE					
Company/Org	ganization: <u>C</u>	ity of Bayonne						
Address: 63	30 Avenue C B	Sayonne, New J	Jersey 07002					
WELL LOC	ATION: De	nnis Collins Pa	ırk					
Address: W	. 1st Avenue e	extend riser to r	neet new ground	d surface				
County: Hu	dson	_ Municipality	y: Bayonne Cit	ty	Lot: 6	Block: 383		
Easting (X): 593796 Northing (Y): 660157 DATE WELL STARTED: April 9, 2021								
Coordii	nate System: N	J State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: April 9, 2021		
WELL USE:	MONITOR	ING						
	•				Local ID: M	W-103		
WELL CON	STRUCTION	1						
		15.3	Finished We	ell Depth (ft.):	15.3	Well Surface: Flush	Mount	
1	Depth to	Depth to	Diameter		Material		Screen # Used	
	Top (ft.)	Bottom (ft.)	(inches)		iviateriai		ch no.)	
Borehole	0	15.30	8					
Casing	0	5.30	2		PVC		n 40	
Screen	5.30	15.30	2		PVC	0.	.010	
	Depth to	Depth to	Outer	Inner		Material		
G .	Top (ft.)	Bottom (ft.)		Diameter (in)		Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack	3	15.30	8	2 2	15	#1 well gravel	7.50	
		I.	8		II. N. 4. 1			
•	hod: <u>Gravity</u>			Dri	lling Method:			
Protective Ca Static Water I Water Level I	Level: _ ft. bel Measure Tool: oment Period: _	ow land surfac	e	Tot Dril Dril	np Capacity: _ gpm al Design Head: _ fi lling Fluid: ll Rig: ılth and Safety Plan			
ATTACHM	ENTS:							
GEOLOGIC								
0 - 15.3: brow	vn SM - Silty s	ands, sand-silt	mixtures					
ADDITIONA	AL INFORMA	ATION: Well	was modified to	match ground	surface with new flu	ish mount		

JOSEPH F NERI,		ALLSTAR DRILLING & PROBING
Driller of Record: JOURNEYMAN LICENSE # 421702	Company:	LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(i or population due only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park	
Street Address: West First Street	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson Program Interest (PI) Number(s): G000011472	Zip Code: 07305
Trogram meroet (Fr) Hamber(0).	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner City of Bayonne	
Well Location (Street Address) West First Street	
3. Well Location (Municipal Block and Lot) Block# 383	Lot # 6
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixed to	the well casing):
Site Well Number as shown on application or plans):	MW-103
Well Completion Date:	1/15/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0	0.01'):
5. Total Depth of Well to the nearest ½ foot:	18
6. Depth to Top of Screen (or top of open hole) from top of casing (ne	earest 0.01'): 8
7. Screen Length (or length of open hole) in feet:	10
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	
12. Static Water Level from top of casing at the time of installation (near	arest 0.01'): 7
13. Yield (gallons per minute):	
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and mir	nutes): 0.5



Monitoring Well Certification Form B - Location Certification

(For Department use only)
SECTION A. SITE NAME AND LOCATION
Site Name: PPG Site 174
List all AKAs: Dennis P. Collins Park
Street Address: W. 1st St.
Municipality: City of Bayonne (Township, Borough or City)
County: Hudson Zip Code: 07002
Program Interest (PI) Number(s): G000011472 Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION
1. Name of Well Owner City of Bayonne
2. Well Location (Street Address) W. 1st St.
3. Well Location (Municipal Block and Lot) Block# 383 Lot # 6
SECTION C. WELL LOCATION SPECIFICS
1. Well Permit Number (This number must be permanently affixed to the well casing): E201714312
2. Site Well Number (As shown on application or plans): MW-103
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
Latitude: North 40-38-42.76 Longitude: West 74-08-00.97
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
North 660158 East 593793
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.55
Elevation Top of Outer casing: 9.98 Elevation of ground: 9.98
Check one: ☐ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other
5. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
GPS observations using KEYNET VRS SYSTEM in NAVD88
7. Significant observations and notes:
A Committee of the Comm
SECTION D. LAND SURVEYOR'S CERTIFICATION SEAL
certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of hose individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant benalties for submitting false information including the possibility of fine and imprisonment.
Professional Land Surveyor's Signature: R. Thomas Hugy Date 3/22/21
Surveyor's Name: R. Thomas Hugg License Number: 24GS03673700
Firm Name: Colliers Engineering & Design Certificate of Authorization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108
City/Town: Egg Harbor Twp. State New Jersey Zip Code: 08234
Phone Number 609-910-4068 Ext.: 4419 Fax: 609-390-0040

WELL NUMBER MW-103 APTIM 17 Princess Road Lawrence Township, NJ 08648 CLIENT PPG PROJECT NAME Site 174 PROJECT NUMBER 631230830 PROJECT LOCATION West 1st Street, Bayonne, NJ **DATE STARTED** 1/15/18 **COMPLETED** 1/15/18 GROUND ELEVATION 7.16 ft HOLE SIZE 2 inches **GROUND WATER LEVELS:** DRILLING CONTRACTOR EPI ✓ AT TIME OF DRILLING 7.00 ft / Elev 0.16 ft DRILLING METHOD Track mounted geoprobe LOGGED BY KT CHECKED BY CL AT END OF DRILLING _---NOTES AFTER DRILLING _---SAMPLE TYPE NUMBER GRAPHIC LOG MATERIAL DESCRIPTION 0.0 Brown sandy SILT, little fine angular gravel, semi dense, dry 2.5 Cobble Brown sandy SILT, little fine angular gravel, semi dense, dry 5.0 Black SILT, some coarse angular gravel, loose, wet 7.5 10.0 Black ASH, loose, wet Dark Gray SILT, little ash, litte fine subrounded gravel, semi dense, wet

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/22/20 16:29 - C.\USERS\PUBLIC\DOCUMENT\S\BENTLEY\GINT\PROJECTS\PPG 174 WELL LOGS.GP.

Well Permit Number E201714313

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller:	BRIAN D KOKOT	, JOURN	EYMAN LIC	CENSE # 0017863			
Permit Issued to:	ENVIRONMENTA	L PROB	ING INVEST	ΓΙGATION			
Company Address:	833 MONMOUTH	RD CR	EAM RIDGE	E, NJ 08514			
PROPERTY OWNER							
Name: CITY OF BA	YONNE						
Organization: City of Ba	yonne						
Address: 630 Avenue C							_
City: Bayonne		State: N	New Jersey		Zip Code:	07002	
PROPOSED WELL LO	CATION						
Facility Name: Dennis C	Collins Park						
Address: W. 1st Avenue	;						
County: Hudson	Municipality:	Bayonne (City	Lot: 4		Block: <u>383</u>	
Easting (X): 593601	Northing (Y):66	0315	Local ID:	MW-104		
Coordinate System:	NJ State Plane (NAI	083) - US	FEET				
SITE CHARACTERIST	TICS						
PROPOSED CONSTRU	ICTION						
WELL USE: MONITO	RING		Ot	her Use(s):			
Diameter (in.): 2			Re Re	gulatory Program			
Depth (ft.): 10			Ca	se ID Number:			
Pump Capacity (gpm): 0							
Drilling Method: Hollow	v Stem Augers						
Attachments:							
SPECIFIC CONDITION	NS/REQUIREMEN	TS					

Approved by the authority of:

Bob Martin Commissioner

Approval Date: December 26, 2017

Expiration Date: December 26, 2018

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201714313

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E201714313**

			MONIT	ORING WE	LL RECORD		
PROPERTY	OWNER: _	CITY OF BAY	ONNE				
Company/Org	ganization: C	ity of Bayonne					
Address: 63	30 Avenue C B	ayonne, New J	ersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	ırk				
Address: W	. 1st Avenue						
		Municipality	y: Bayonne Cit	.y	Lot: 4	Block: 383	3
1			(Y): <u>660315</u> NAD83) - USFI			ARTED: January 15, LETED: January 15,	
	•		1,112,00, 0,011	D	ATE WELL COMP	LETED: January 13,	2018
	MONITOR:				Local ID: MW	104	
Other Use(s)	•				Local ID: WW	-104	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):	15	Finished We	ll Depth (ft.):	15 W	Vell Surface: Flush	n Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		y/Screen # Used
Borehole	0	15	8				· · · · · · · · · · · · · · · · · · ·
Casing	0	5	2		PVC	S	ch 40
Screen	5	15	2		PVC		.010
	Depth to	Depth to	Outer	Inner		Material	
a	Top (ft.)	Bottom (ft.)				Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.5
	Gravel Pack 3 15 8 2 Morie #1						
Gravel Pack			8		lling Mathad: Holla		
Gravel Pack Grouting Met	hod: Gravity	method	8		lling Method: Hollo		
Gravel Pack Grouting Met ADDITION	hod: Gravity	method	8	Dri			
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I	hod: Gravity AL INFORM sing: No Level: 7 ft. be	method ATION elow land surfa		Dri Pur Tot	mp Capacity: _ gpm al Design Head: _ ft.		
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I	AL INFORMASING: No Level: 7 ft. be Measure Tool:	method ATION elow land surfa Tape		Dri Pur Tot Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid:	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop	AL INFORMA sing: No Level: 7 ft. be Measure Tool: oment Period:	method ATION elow land surfa Tape .5 hrs.		Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop	AL INFORMASING: No Level: 7 ft. be Measure Tool:	method ATION elow land surfa Tape .5 hrs.		Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid:	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De	AL INFORMA sing: No Level: 7 ft. be Measure Tool: oment Period: evelopment: Su	method ATION elow land surfa Tape .5 hrs.		Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI	chod: Gravity AL INFORM sing: No Level: 7 ft. be Measure Tool: ment Period: evelopment: Su ENTS:	method ATION elow land surfa Tape .5 hrs.		Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black C	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top	method ATION elow land surfa Tape .5 hrs. abmersible	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black C	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top	method ATION clow land surfa Tape .5 hrs. ubmersible	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	
Gravel Pack Grouting Met ADDITIONA Protective Ca Static Water I Water Level I Well Develop Method of De Pump Type: ATTACHMI GEOLOGIC 05: Black .5 - 15: Black	AL INFORMASING: No Level: 7 ft. be Measure Tool: Development: Su ENTS: CLOG OT - Other Top ESM - Silty san	elow land surfa Tape .5 hrs. abmersible p soil nds, sand-silt m	ce	Dri Pur Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft. lling Fluid: ll Rig: <u>Geoprobe 772</u>	w Stem Augers	

Carl Farley,
Driller of Record: MONITORING LICENSE # 225877

ENVIRONMENTAL PROBING

Company: INVESTIGATION

Well Permit Number E202104370

			MONIT	URING WE	LL RECORD			
PROPERTY OW	VNER:	CITY OF BA	YONNE					
Company/Organization: City of Bayonne								
Address: 630 Av	venue C Ba	ayonne, New J	ersey 07002					
WELL LOCATION	ON: Der	nnis Collins Pa	rk					
Address: W. 1st	Avenue ex	xtend riser to r	neet ground sur	face				
County: Hudson	Į.	Municipality	y: Bayonne Ci	ty	_ Lot:_4	Block: _3	83	
Easting (X): 593	3601	Northing	(Y): <u>660315</u>		DATE WELL ST	CARTED: April 9, 20	021	
Coordinate S	System: N.	J State Plane (NAD83) - USF	EET D.	ATE WELL COMI	PLETED: April 9, 20)21	
WELL USE: M	ONITORI	NG						
Other Use(s):					Local ID: M	W-104		
WELL CONSTR	RUCTION							
Total Depth Drill	led (ft.):	0	Finished We	ell Depth (ft.):_	15.2	Well Surface: Flu	sh Mount	
	epth to op (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		ng/Screen # Used	
Borehole	op (1t.)	Bottom (it.)	(menes)			(10	75/CH HO.)	
Screen								
	Depth to	Depth to	Outer	Inner		Material		
	Γop (ft.)	Bottom (ft.)	Diameter (in.)	Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack								
Grouting Method:				Dri	lling Method:			
ADDITIONAL IN								
Protective Casing:		111011		Pui	np Capacity: _ gpm			
Static Water Level		w land surface	e		tal Design Head: _ ft			
Water Level Meas Well Development		hra			lling Fluid: ll Rig:			
Method of Develo		. 1118.			alth and Safety Plan	Submitted?		
Pump Type:	r							
ATTACHMENT	<u>'S:</u>							
GEOLOGIC LO	G							
ADDITIONAL IN	NFORMA	TION: No cl	nanges in well o	only modified to	match ground surface	ce		

Driller of Record: JOURNEYMAN LICENSE # 421702

JOSEPH F NERI,



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(i or zoparament accomy)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park	
Street Address: West First Street	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson	Zip Code: <u>07002</u>
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
Well Location (Street Address) West First Street	
3. Well Location (Municipal Block and Lot) Block# 383	Lot # _4
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to	the well casing):
Site Well Number as shown on application or plans):	MW-104
Well Completion Date:	4/9/2021
4. Distance from Top of Casing (cap off) to ground surface (nearest 0	0.01'):
5. Total Depth of Well to the nearest ½ foot:	17
6. Depth to Top of Screen (or top of open hole) from top of casing (ne	earest 0.01'): 7
7. Screen Length (or length of open hole) in feet:	
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	
12. Static Water Level from top of casing at the time of installation (near	arest 0.01'): ⁷
13. Yield (gallons per minute):	
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and mir	nutes): 0.5



Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION Site Name: PPG Site 174	
Site Name: PPG Site 1/4 List all AKAs: Dennis P. Collins Park	
Street Address: W. 1st St.	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
2. Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block	# <u>383</u> Lot # <u>4</u>
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanent)	ly affixed to the well casing): E201714313
2. Site Well Number (As shown on application or plans):	MW-104
3. Geographic Coordinate NAD 83 to nearest 1/100 of a s	second:
Latitude: North 40-38-45.14	Longitude: West <u>74-08-03.09</u>
 New Jersey State Plane Coordinates NAD 83 datum, U North 660398 	JS survey feet units, to nearest foot: East 593629
5. Elevation of Top of Inner Casing (cap off) at reference	
Elevation Top of Outer casing: 10.05	Elevation of ground: 10.35
Check one: NAVD 88 □ NVGD29 □ On S	Site Datum
 Source of elevation datum (benchmark, number/descriphere, assume datum of 100', and give approximated ac 	ption and elevation/datum). If an on-site datum is used, identify ctual elevation (referencing NAVD 88).
GPS observations using KEYNET VRS SYST	TEM in NAVD88
7. Significant observations and notes:	** A
	A Section of the sect
SECTION D. LAND SURVEYOR'S CERTIFICATION	SÉAL
I certify under penalty of law that I have personally examined a information submitted in this document and all attachments an those individuals immediately responsible for obtaining the info submitted information is true, accurate and complete. I am aw penalties for submitting false information including the possibile	nd that, based on my inquiry of ormation, I believe the vare that there are significant
Professional Land Surveyor's Signature:	ns thing Date 4/6/21
Surveyor's Name: R. Thomas Hugg	License Number: 24GS03673700
Firm Name: Colliers Engineering & Design	Certificate of Authorization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108	
	State New Jersey Zip Code: 08234
Phone Number 609-910-4068	Ext.: 4419 Fax: 609-390-0040

		4							1	WELI	_ NUME	BER MW	
				PTIM								PAGE 1	OF 1
	ΔΡ	TIM		Princess Row	oad Inship, NJ 08	648							
		T PPG			•			PROJECT NAME Site	e 174				
				₹ 63123083						1st Street.	Bavonne, N.	J	
								_ GROUND ELEVATION					
				CTOR EPI				GROUND WATER LEV					
								_		6.00 ft / E	lev 2.40 ft		
							L						
									_				
ŀ								_					
	O DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC					MATERIAL DESCRIPTI					
Ī				: Br	own sandy S	ILT, some m	edium sub ang	ular gravel, semi dense, o	dry				
GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/22/20 16:29 - C.\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\PPG 174 WELL LOGS.GPJ	2.5												
PRO.	5.0			5.0 Br	own sandv S	II T some m	edium sub and	ıular gravel, semi dense, ı	moist				3.4
GINT					· · · · · · · · · · · · · · · · · · ·	,		,a.a. g.a.o., co acco, .					
LEY	-			6.0 ∑									2.4
BEN	_			Bia	ack ASH, loo	se, wet							
SLUZ				7.0									1.4
BLIC\DOCUME	7.5				ack coarse sl	ag FILL, son	ne ash, some r	nedium sub angular grave	el, loose,	, wet			
3S/PL			\bowtie	8.5	ack to gray S	II T loose w	/ot						-0.1
USEF				:	ack to gray o	1L1, 10036, W	761						
:	_]			: <u> </u>									
16:29	10.0			10.0									-1.6
22/20					ayish Brown	sandy SILT,	little medium s	ub angular gravel, semi d	dense, w	et			
T- 1	- 1												
B.GD				11.0 Re	eddish Brown	sandy SILT,	, little medium s	sub angular gravel, semi o	dense, w	/et			-2.6
JS LA				·. -:									
STD (·.									
JN:	12.5			: 									
	_			: <u> </u>									
/ WE	_			13.5									-5.1
4/ TP	1				eddish Orang	e fine SAND	, semi dense, v	vet		_			-5.6
AL BI	-		П		eddish Brown	sandy SILT	, little medium :	sub angular gravel, semi	dense, w	/et			0.0
INER.				[:] 									_
Ö	15.0		r I H	15.0									-6.6

Well Permit Number E201714314

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMA	N LICENSE # 0017863									
Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION										
Company Address: 833 MONMOUTH RD CREAM R	ny Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514									
PROPERTY OWNER										
Name: CITY OF BAYONNE										
Organization: City of Bayonne										
Address: 630 Avenue C										
City: Bayonne State: New Jer	sey Zip Code: <u>07002</u>									
PROPOSED WELL LOCATION										
Facility Name: Dennis Collins Park										
Address: W. 1st Avenue										
County: Hudson Municipality: Bayonne City	Lot: 6 Block: 385									
Easting (X): 594295 Northing (Y): 660148	Local ID: MW-105									
Coordinate System: NJ State Plane (NAD83) - USFEET										
SITE CHARACTERISTICS										
PROPOSED CONSTRUCTION										
WELL USE: MONITORING	Other Use(s):									
Diameter (in): 2	Regulatory Program									
Diameter (in.): 2	Requiring Wells/Borings:									
Depth (ft.): 10	Case ID Number:									
Pump Capacity (gpm): 0 Drilling Method: Hollow Stem Augers	Deviation Requested: N									
Attachments:										
SPECIFIC CONDITIONS/REQUIREMENTS										
or zen re comprisentation de la comprisentat										

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Approved by the authority of:

Approval Date: December 26, 2017

Expiration Date: December 26, 2018

Bob Martin Commissioner

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201714314

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number E201714314

MONITODING WELL DECORD

			MONIT	ORING WE	LL RECORD			
PROPERTY	OWNER: _	CITY OF BAY	YONNE					
Company/Org	ganization: C	ity of Bayonne						
Address: 63	30 Avenue C B	Bayonne, New J	Jersey 07002					
WELL LOC	ATION: De	ennis Collins Pa	nrk					
Address: W	7. 1st Avenue							
County: Hu	dson	_ Municipality	y: Bayonne Ci	ty	_ Lot: 6	Blo	ock: 385	5
Easting (X):	594295	Northing	(Y): <u>660148</u>		DATE WELL S'	TARTED: Jan	uary 16,	2018
Coordi	nate System: N	NJ State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: Jan	uary 16,	2018
WELL USE:	: MONITOR	ING						
Other Use(s)	:				Local ID: M	W-105		
WELL CON	STRUCTION	N .						
Total Depth	Drilled (ft.):	10	Finished We	ell Depth (ft.):	10	Well Surface:_	Flush	Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material	Wş		/Screen # Used /ch no.)
Borehole	0	10	8					
Casing	0	5	2 2		PVC			ch 40
Screen	5	10	2		PVC			010
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Mater Neat Cement		Water (gal.)
Grout	0	3	8	2	15	Treat Cement	(103.)	7.5
Gravel Pack	3	10	8	2		Morie	#1	
Grouting Met	thod: <u>Gravity</u>	method		Dri	lling Method: Hol	low Stem Auge	rs	
ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 8 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Tape Drilling Fluid: Well Development Period: _5 hrs. Drill Rig: Geoprobe 7720 Method of Development: Submersible Health and Safety Plan Submitted? Yes Pump Type: ATTACHMENTS:								
GEOLOGIC	LOG							
	OT - Other As							
		nds, sand-silt m	nixtures					
ADDITION	AL INFORM	ATION:						
	Carl Fa	arlev				ENVIRON	MENT A I	PROBING
	Carl Fa	ariey,				ENVIRONN	ILN I AL	Y PKOBING

Company: INVESTIGATION

Driller of Record: MONITORING LICENSE # 225877

Well Permit Number E202104309

	MONITORING WELL RECORD						
PROPERTY	OWNER: _0	CITY OF BAY	YONNE				
Company/Org	ganization: <u>C</u>	ity of Bayonne					
Address: 63	30 Avenue C B	Sayonne, New J	Jersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	nrk				
Address: W	. 1st Avenue I	Extending riser	to meet ground	surface			
County: Hu	dson	_ Municipality	y: Bayonne Cit	ty	_ Lot: 6	Block: 38	35
			(Y): <u>660148</u> NAD83) - USFI	-		FARTED: April 9, 20 PLETED: April 9, 20	
	MONITOR		<u> </u>			<u> </u>	
					Local ID: M	W-105	
	STRUCTION						
		0	Finished We	ell Depth (ft.):	10.2	Well Surface: Flus	h Mount
	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)		Material		g/Screen # Used s/ch no.)
Borehole	• • • • • • • • • • • • • • • • • • • •						
G							
Screen							
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in)	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack							
	hod:			 Dri	lling Method:		
				Dii	ming Method:		
ADDITIONAL INFORMATION Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: _ ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Drilling Fluid: Well Development Period: _ hrs. Drill Rig: Method of Development: Health and Safety Plan Submitted? Pump Type: ATTACHMENTS:							
GEOLOGIC	LOG						
ADDITION	AL INFORMA	ATION: No cl	hanges to well, I	Modified to mat	ch surface condition	s, new flush mount.	

Record -- Page 1 of 1

JOSEPH F NERI,

Driller of Record: JOURNEYMAN LICENSE # 421702

ALLSTAR DRILLING & PROBING Company: LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park Street Address: West First Street	
Oil ott / tudi coo.	Constitution Description (Cit.)
	Fownship, Borough or City) ip Code: 07002
	ase Tracking Number(s): RPC930002
	ase Tracking Number(s). 14 000002
SECTION B. WELL OWNER AND LOCATION 1. Name of Well Owner City of Bayonne	
 Name of Well Owner City of Bayonne Well Location (Street Address) West First Street 	
Well Location (Municipal Block and Lot) Block# 383	Lot # 4
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the	e well casing):
Site Well Number as shown on application or plans):	MW-105
Well Completion Date:	4/9/2021
Distance from Top of Casing (cap off) to ground surface (nearest 0.0)	1'):
5. Total Depth of Well to the nearest ½ foot:	12
6. Depth to Top of Screen (or top of open hole) from top of casing (near	rest 0.01'): 7
7. Screen Length (or length of open hole) in feet:	5
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (neare	est 0.01'): 8
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and minut	es): 0.5



Monitoring Well Certification Form B - Location Certification

	(For Department use only)
SECTION A. SITE NAME AND LOCATION Site Name: PPG Site 174	
List all AKAs: Dennis P. Collins Park	
Street Address: W. 1st St.	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block# 385	Lot # 6
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanently affixed to	the well casing): E201714314
2. Site Well Number (As shown on application or plans): MW-105	
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40-38-42.61	ongitude: West <u>74-07-54.37</u>
 New Jersey State Plane Coordinates NAD 83 datum, US survey for 	
North 660145 E.	ast 594302
Elevation of Top of Inner Casing (cap off) at reference mark (near	rest 0.01'); 10.15
	of ground: 10.55
Check one: NAVD 88 □ NVGD29 □ On Site Datum	_
Source of elevation datum (benchmark, number/description and e here, assume datum of 100', and give approximated actual elevati	levation/datum). If an on-site datum is used, identify on (referencing NAVD 88).
GPS observations using KEYNET VRS SYSTEM in NA	AVD88
7. Significant observations and notes:	
	Walter St. Committee of the Committee of
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL
I certify under penalty of law that I have personally examined and am fami information submitted in this document and all attachments and that, base those individuals immediately responsible for obtaining the information, I be submitted information is true, accurate and complete. I am aware that the penalties for submitting false information including the possibility of fine are	liar with the ed on my inquiry of pelieve the re are significant and imprisonment.
Professional Land Surveyor's Signature: K. Shows Hyg	Date 3/22/21
Surveyor's Name: R. Thomas Hugg	License Number: 24GS03673700
Firm Name: Colliers Engineering & Design	Certificate of Authorization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108	21 0 1 00004
· · · · · · · · · · · · · · · · · · ·	ew Jersey Zip Code: 08234
Phone Number 609-910-4068 Ext.: 44	Fax: 609-390-0040

WELL NUMBER MW-105 APTIM 17 Princess Road Lawrence Township, NJ 08648 **CLIENT PPG** PROJECT NAME Site 174 PROJECT NUMBER 631230830 PROJECT LOCATION West 1st Street, Bayonne, NJ **DATE STARTED** 1/15/18 **COMPLETED** 1/15/18 GROUND ELEVATION 8.2 ft HOLE SIZE 2 inches **GROUND WATER LEVELS:** DRILLING CONTRACTOR EPI $\sqrt{2}$ AT TIME OF DRILLING $\sqrt{7.00}$ ft / Elev 1.20 ft DRILLING METHOD Track mounted geoprobe LOGGED BY KT CHECKED BY CL AT END OF DRILLING _---NOTES AFTER DRILLING _---GRAPHIC LOG MATERIAL DESCRIPTION 0.0 Brown sandy SILT, some medium sub angular gravel, semi dense, dry Cobbles No Recorvery due to rock in shoe 2.5 5.0 Cobbles, some medium sandy silt, loose, dry Brownish Gray silty SAND, some coarse angular gravel, dense, moist Light Brown Tan silty SAND, some medium sub angular gravel, dense, wet 7.5 Black ASH, some silty sand, some wood, semi dense, wet Red sandy SILT, litle medium sub angular gravel, dense, wet

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/22/20 16:29 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\PPG 174 WELL LOGS.GPJ

Well Permit Number E201714315

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863									
Permit Issued to:	ENVIRONMENTAL PROBING INV	VESTIGATION							
Company Address:	833 MONMOUTH RD CREAM RI	DGE, NJ 08514							
PROPERTY OWNER									
Name: CITY OF BA	YONNE								
Organization: City of Ba	iyonne								
Address: 630 Avenue C									
City: Bayonne	State: New Jers	ey	Zip Code: <u>07002</u>						
PROPOSED WELL LO	CATION								
Facility Name: Dennis C	Collins Park								
Address: W. 1st Avenue	<u>;</u>								
County: Hudson	Municipality: Bayonne City	Lot: 6	Block: 385						
Easting (X): 594508	Northing (Y): 660136	Local ID:	MW-106						
Coordinate System:	NJ State Plane (NAD83) - USFEET	_							
SITE CHARACTERIST	TCS								
PROPOSED CONSTRU	CTION								
WELL USE: MONITO	RING	Other Use(s):							
Diameter (in.): 2		Regulatory Program Requiring Wells/Boring	gs:						
		Case ID Number:							
		Deviation Requested: N							
Drilling Method: Hollow	Orilling Method: Hollow Stem Augers								
Attachments:									
SPECIFIC CONDITION	NS/REQUIREMENTS								

Bob Martin Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

Approved by the authority of:

Approval Date: December 26, 2017

Expiration Date: December 26, 2018

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201714315

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E201714315**

MONITORING WELL RECORD

			MONTY	OKING WE	LL KECOKD		
PROPERTY	OWNER: _	CITY OF BAY	ONNE				
Company/Org	ganization: C	ity of Bayonne					
Address: 63	30 Avenue C B	ayonne, New J	ersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	ırk				
Address: W	. 1st Avenue						
County: Hu	dson	_ Municipality	y: Bayonne Cit	.y	Lot: 6	Block: 38	35
Easting (X): 594508 Northing (Y): 660136 DATE WELL STARTED: January 16, 2018							
Coordinate System: NJ State Plane (NAD83) - USFEET DATE WELL COMPLETED: January 16, 2018							
WELL USE:	MONITOR	ING					
					Local ID: MV	W-106	
WELL CON	WELL CONSTRUCTION						
		15	Finished We	ll Depth (ft.):	15	Well Surface: Flus	h Mount
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used							
	Top (ft.)	Bottom (ft.)	(inches)				
Borehole	0	15	8				
Casing	0	5	2		PVC	S	Sch 40
Screen	5	15	2		PVC		.010
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	\ /	Neat Cement (lbs.)	Water (gal.)
Ground Double	3	3 15	8	2 2	15	0 Maria #1	7.5
Gravel Pack	I	1	8		11' 36 4 1 77 11	Morie #1	
_	thod: Gravity			Dri	lling Method: Holl	ow Stem Augers	
ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 9 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Tape Drilling Fluid: Well Development Period:5 hrs. Drill Rig: Geoprobe 7720 Method of Development: Submersible Health and Safety Plan Submitted? Yes Pump Type:							
	ATTACHMENTS:						
GEOLOGIC							
		ds, sand-silt m	ixtures				
ADDITIO NA	AL INFORMA	ATION:					

	Carl Farley,		ENVIRONMENTAL PROBING
Driller of Record:	MONITORING LICENSE # 225877	Company:	INVESTIGATION

Well Permit Number E202104364

			MONIT	ORING WE	LL RECORD		
PROPERTY	OWNER: _	CITY OF BA	YONNE				
Company/Org	ganization: <u>C</u>	ity of Bayonne					
Address: 63	30 Avenue C B	Bayonne, New J	ersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	ırk				
Address: W	. 1st Avenue e	extending riser	to new ground s	urface			
County: Hu	dson	_ Municipality	y: Bayonne Cit	ty	Lot: 6	Block: _38	35
Easting (X):594508 Northing (Y):660136 DATE WELL STARTED: April 9, 2021							
Coordin	nate System: N	IJ State Plane (NAD83) - USFI	EET DA	ATE WELL COMI	PLETED: April 9, 202	21
WELL USE:	MONITOR	ING					
Other Use(s)	:				Local ID: MY	W-106	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):_	0	Finished We	ll Depth (ft.):	15.1	Well Surface: Flus	h Mount
	Depth to	Depth to	Diameter	Material Wgt/Rating/Screen # Used (lbs/ch no.)			
Borehole	Top (ft.)	Bottom (ft.) 15.10	(inches)			(10)	8/011 110.)
Casing			-		PVC		
Screen							
	Depth to	Depth to	Outer	Inner		Material	
	Top (ft.)	Bottom (ft.)		Diameter (in)	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout Gravel Pack							
	hod:			Dri	lling Method:		
				Dii	imig Method.		
ADDITIONAL INFORMATION Protective Casing: Yes Pump Capacity: _ gpm Static Water Level: _ ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Drilling Fluid: Well Development Period: _ hrs. Drill Rig: Method of Development: Health and Safety Plan Submitted? Pump Type:							
ATTACHMI	ENTS:						
GEOLOGIC	LOG						
ADDITIONA	AL INFORMA	ATION: No cl	hanges to well, o	only modified to	match surface chan	ges while installing flu	ısh mount

JOSEPH F NERI, ALLSTAR DRILLING & PROBING Driller of Record: JOURNEYMAN LICENSE # 421702 Company: LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(i oi bopai anoni aco omy)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park	
Street Address: West First Street	
• •	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address) West First Street	
3. Well Location (Municipal Block and Lot) Block# 385	Lot # 6
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to t	he well casing):
Site Well Number as shown on application or plans):	MW-106
Well Completion Date:	4/9/2021
Distance from Top of Casing (cap off) to ground surface (nearest 0.	01'):
5. Total Depth of Well to the nearest ½ foot:	16.5
6. Depth to Top of Screen (or top of open hole) from top of casing (near	arest 0.01'): 6.5
7. Screen Length (or length of open hole) in feet:	10
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (nea	rest 0.01'): 9
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and minute)	utes): 0.5



Monitoring Well Certification Form B - Location Certification

(For Department	it use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: PPG Site 174	
List all AKAs: Dennis P. Collins Park	
Street Address: W. 1st St.	
Municipality: City of Bayonne (Township, Borough or City)	
County: Hudson Zip Code: 07002	
Program Interest (PI) Number(s): G000011472 Case Tracking Number(s):	
SECTION B. WELL OWNER AND LOCATION	
1. Name of Well Owner City of Bayonne	
2. Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block# 385 Lot # 6	
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well casing): E201714315	
2. Site Well Number (As shown on application or plans): MW-106	
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	-
Latitude: North 40-38-42.50 Longitude: West 74-07-51.72	
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:	
North 660135 East 594506	
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 12.12	
Elevation Top of Outer casing: 12.54 Elevation of ground: 12.54	
Check one: ☐ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other	
6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).	identify
GPS observations using KEYNET VRS SYSTEM in NAVD88	
7. Significant observations and notes:	
A STATE OF THE PARTY OF THE PAR	
	0,
SECTION D. LAND SURVEYOR'S CERTIFICATION SEAL	V2.4.
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of	100
those individuals immediately responsible for obtaining the information, I believe the	
submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.	
n 11 01	700/04
- Canada	3700

	,500
Mailing Address 500 Scarborough Drive, Suite 108 City/Town: Egg Harbor Twp. State New Jersey Zip Code: 08234	1
Phone Number 609-910-4068 Ext.: 4419 Fax: 609-390-0040	

WELL NUMBER MW-106 APTIM 17 Princess Road Lawrence Township, NJ 08648 **CLIENT PPG** PROJECT NAME Site 174 PROJECT NUMBER 631230830 PROJECT LOCATION West 1st Street, Bayonne, NJ **DATE STARTED** 1/16/18 **COMPLETED** 1/16/18 GROUND ELEVATION 11 ft HOLE SIZE 2 inches DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:** ✓ AT TIME OF DRILLING 7.00 ft / Elev 4.00 ft DRILLING METHOD Track mounted geoprobe LOGGED BY KT CHECKED BY CL AT END OF DRILLING _---NOTES AFTER DRILLING _---GRAPHIC LOG MATERIAL DESCRIPTION 0.0 Brown sandy SILT, some medium sub angular gravel, semi dense, dry Cobbles 2.5 8.0 No Recovery due to Cobbles 5.0 Brownish Gray silty SAND, some coarse angular gravel, dense, moist ∇ 7.5 Black ASH, some silty sand, some wood, semi dense, wet 10.0 Light Brown Tan silty SAND, some medium sub angular gravel, dense, wet Brown sandy SILT, some coarse red siltstone, dense, wet Light Brown Tan silty SAND, some medium sub angular gravel, dense, wet

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 1/22/20 16:29 - C.\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\PPG 174 WELL LOGS.GP.

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Well Permitting

Well Permit Number Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831 E201808776

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN	LICENSE # 0017863
Permit Issued to: ENVIRONMENTAL PROBING INVI	ESTIGATION
Company Address: 833 MONMOUTH RD CREAM RID	OGE, NJ 08514
PROPERTY OWNER	
Name: CITY OF BAYONNE	
Organization: City of Bayonne	
Address: 630 Avenue C	
City: Bayonne State: New Jersey	y Zip Code: <u>07002</u>
PROPOSED WELL LOCATION	
Facility Name: Dennis Collins Park	
Address: West 1st Street	
County: Hudson Municipality: Bayonne City	Lot: 2 Block: 384
Easting (X): 594243 Northing (Y): 660247	Local ID: MW-107
Coordinate System: NJ State Plane (NAD83) - USFEET	-
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: MONITORING	Other Use(s):
	Regulatory Program
Diameter (in.): 2	Requiring Wells/Borings:
	Case ID Number:
Pump Capacity (gpm): 0	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SDECIEIC CONDITIONS/DECHIDEMENTS	-

Approval Date: August 27, 2018 **Expiration Date:** August 27, 2019 Approved by the authority of: Catherine R. McCabe Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201808776

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E201808776**

MONITORING WELL RECORD

			MONITO	JAING WEI	LL KECOKD			
PROPERTY	OWNER: _	CITY OF BA	YONNE					
Company/Org	ganization: <u>C</u>	ity of Bayonne						
Address: 63	30 Avenue C B	Sayonne, New J	Jersey 07002					
WELL LOC	ATION: De	nnis Collins Pa	nrk					
Address: W	est 1st Street							
		Municipality	y: Bayonne Cit	у	Lot: 2	Block: _38	4	
Easting (X):	594243	Northing	(Y): 660247		DATE WELL ST	SARTED: September	7 2018	
			NAD83) - USFE			PLETED: September		
	MONITOR	`		D F	TE WELL COM	EETED. September	7, 2016	
					Local ID: MY	W-107		
WELL CON	STRUCTION	I						
			Finished We	ll Depth (ft.):	15	Well Surface: Flusl	n Mount	
Depth to Depth to Diameter Material Wgt/Rating/Screen # Used					/Screen # Used			
	Top (ft.)	Bottom (ft.)	(inches)	(lbs/ch no.)				
Borehole	0	15	8					
Casing	0	5	2		PVC	S	ch 40	
Screen	5	15	2		PVC		.010	
	Depth to	Depth to	Outer	Inner		Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '		Neat Cement (lbs.)	Water (gal.)	
Grout	0	3	8	2 15 7.50				
Gravel Pack	3	15	8	2		Morie #1		
Grouting Met	chod: <u>Gravity</u>	method		Dri	lling Method: Holl	ow Stem Augers		
Protective Ca Static Water I Water Level I Well Develop	Level: 12 ft. b Measure Tool: oment Period:	pelow land surf Tape .5 hrs.	îace	Tot Dri Dri	np Capacity: _ gpm al Design Head: _ ft Illing Fluid: Il Rig: <u>Geoprobe 77:</u>	<u>20</u>		
Method of De Pump Type:	Method of Development: <u>sub</u> Health and Safety Plan Submitted? <u>Yes</u> Pump Type:							
ATTACHMI	ENTS:							
GEOLOGIC	LOG							
		nds, sand-silt n	nixtures					
ADDITION	AL INFORMA	ATION:						

Driller of Record:	John Brass, MONITORING LICENSE # 545089	Company:	ENVIRONMENTAL PROBING INVESTIGATION
211101 011100014.	indicitional (o Biebliob ii bilboo)		II (EDITOTITOT (

Well Permit Number E202104371

			MONITO	ORING WEI	<u>LL RECORD</u>			
PROPERTY	OWNER: _	CITY OF BA	YONNE					
Company/Org	ganization: <u>C</u>	ity of Bayonne						
Address: 63	0 Avenue C B	ayonne, New J	Jersey 07002					
WELL LOC	ATION: De	nnis Collins Pa	ırk					
Address: W	est 1st Street e	extend riser to 1	neet ground sur	face				
County: Hu	County: Hudson Municipality: Bayonne City Lot: 2 Block: 384							
Easting (X): 594243 Northing (Y): 660247 DATE WELL STARTED: April 9, 2021								
			NAD83) - USFI		ATE WELL COM			
WELL USE:	MONITOR	ING						
					Local ID: M	W-107		
	STRUCTION Drilled (ft.):	15.2	Finished We	ll Depth (ft.):	15.2	Well Sur	rface: Flush	Mount
	Depth to	Depth to						
Borehole	Top (ft.)	Bottom (ft.) 15.20	8	(lbs/ch no.)				ch no.)
Casing	0	5.20	2		PVC			
Screen	5.20	15.20	2		PVC			010
	Depth to	Depth to	Outer	Inner			Material	
	Top (ft.)	Bottom (ft.)	Diameter (in.)	-	Bentonite (lbs.)		Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15			7.50
Gravel Pack	3	15.20	8	2			well gravel	
Grouting Met	hod: Gravity	method		Dri	lling Method:			
Protective Ca Static Water I Water Level I	Level: _ ft. bel Measure Tool: oment Period:	ow land surfac	e	Tot Dril Dril	np Capacity: _ gpm al Design Head: _ f lling Fluid: ll Rig: alth and Safety Plan	ft.	ed?	
ATTACHMI	ENTS:							
GEOLOGIC								
0 - 15.2: brow	n SM - Silty s	ands, sand-silt	mixtures					
ADDITION	L INFORM	ATION: Well	was modified to	match ground	surface with new flu	ush moun	nt only	

JOSEPH F 1	NERI,			ALLSTAR DRILLING & PROBING
Driller of Record: JOURNEY!	MAN LICENSE # 421702	C	company: _	LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(For Department use only)		
SECTION A. SITE NAME AND LOCATION			
Site Name: Hudson County Chromate Site 174			
List all AKAs: Dennis Collins Park Street Address: West First Street			
011 (7	(Township Bosseshop Ott.)		
	(Township, Borough or City)		
County: Hudson Zip Code: 07002 Program Interest (PI) Number(s): G000011472 Case Tracking Number(s): RPC930002			
	Case Tracking Number(s). 111 000002		
 Name of Well Owner City of Bayonne 			
Name of Well Owner City of Bayonne Well Location (Street Address) West 1st Street			
Well Location (Municipal Block and Lot) Block# 384	Lot # 2		
SECTION C. WELL LOCATION SPECIFICS			
Well Permit Number (This number must be permanently affixed to the state of th	ne well casing):		
Site Well Number as shown on application or plans):	MW-107		
Well Completion Date:	4/9/2021		
Distance from Top of Casing (cap off) to ground surface (nearest 0.)	01'):		
5. Total Depth of Well to the nearest ½ foot:	17.5		
6. Depth to Top of Screen (or top of open hole) from top of casing (near	arest 0.01'): 7.5		
7. Screen Length (or length of open hole) in feet:	10		
8. Screen or Slot Size:	0.010		
9. Screen or Slot Material:	PVC		
10. Casing Material (PVC, steel, or other – specify):	PVC		
11. Casing Diameter (inches):	2		
12. Static Water Level from top of casing at the time of installation (near	rest 0.01'): 12		
13. Yield (gallons per minute):			
14. Development Techinque (specify):	Pump and surge		
15. Length of Time well is developed/pumped or bailed (hours and minutes):			



Monitoring Well Certification Form B - Location Certification

	1 (1 or Department use only)
Site Name: PPG Site 174	
List all AKAs: Dennis P. Collins Park	
Street Address: W. 1st St.	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s):
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
Well Location (Street Address) W. 1st St.	
Well Location (Municipal Block and Lot) Block	# <u>384</u> Lot # <u>2</u>
SECTION C. WELL LOCATION SPECIFICS	
1. Well Permit Number (This number must be permanent	ly affixed to the well casing): E201808776
2. Site Well Number (As shown on application or plans):	MW-107
3. Geographic Coordinate NAD 83 to nearest 1/100 of a	second:
Latitude: North 40-38-43.59	Longitude: West <u>74-07-55.16</u>
4. New Jersey State Plane Coordinates NAD 83 datum, U	JS survey feet units, to nearest foot:
North 660244	East 594241
5. Elevation of Top of Inner Casing (cap off) at reference	mark (nearest 0.01'): 8.93
Elevation Top of Outer casing: 9.38	Elevation of ground: 9.38
Check one: NAVD 88 □ NVGD29 □ On	Site Datum
Source of elevation datum (benchmark, number/describere, assume datum of 100', and give approximated actions.	ption and elevation/datum). If an on-site datum is used, identify ctual elevation (referencing NAVD 88).
GPS observations using KEYNET VRS SYS	TEM in NAVD88
7. Significant observations and notes:	
	"
	Samuel Comment
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL WOO
I certify under penalty of law that I have personally examined information submitted in this document and all attachments ar those individuals immediately responsible for obtaining the infusion submitted information is true, accurate and complete. I am avecurate for submitting false information including the possible	ormation, I believe the vare that there are significant
Professional Land Surveyor's Signature: R. Thomas	Muzz Date 3/22/21
Surveyor's Name: R. Thomas Hugg	License Number: 24GS03673700
Firm Name: Colliers Engineering & Design	Certificate of Authorization #: 24GA27986500
Mailing Address 500 Scarborough Drive, Suite 108	
	State New Jersey Zip Code: 08234
Phone Number 609-910-4068	Ext.: 4419 Fax: 609-390-0040

WELL NUMBER MW-107

APTIM

	APTIM			PAGE 1 OF
APTIM		cess Road ce Township, NJ 08648		
CLIENT PPG			PROJECT NAME 174	
			GROUND ELEVATION HOI	LE SIZE 8 inches
DRILLING CO	NTRACTOR	R EPI	o water level drilling $ o$ 7.00 ft	
DRILLING ME	THOD Tra	ack-mounted Geoprobe		
		der CHECKED BY		
NOTES			<u> </u>	
DEPTH (ft) (tt) SAMPLE TYPE NUMBER	U.S.C.S. GRAPHIC		ERIAL DESCRIPTION	WELL DIAGRAM
0.0			vel, pebbles to cobbles (asphalt and concrete	Casing Type: PVC
·	ML	pieces), dry		concrete
2.5		(IVIL) SAA, MOISE		bentonite
5.0	ML	5.0 (ML) brown sandy SILT and GRAV	/EL, wet, some dark gray to black at 7-7.5 ft.	
7.5	ML .	∑ 		
-		(ML) gray SILT, soft, wet		
†	ML			
-	ML	9.0 (ML) red brown sandy SILT and G	RAVEL, moist	filter sand
10.0		(SW) gray SAND, some gravel, we	et	screen
4	SW 👯 🤾	Š		
_		11.0 (ML) rad brown condy SILT and C	DAVEL subrounded relibles with	
12.5	ML	(ML) red brown sandy SILT and G	RAVEL, subrounded pebbles, wet	
		11		
7				

Well Permit Number **E201808777**

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN	LICENSE # 0017863
Permit Issued to: _ENVIRONMENTAL PROBING INV	ESTIGATION
Company Address: 833 MONMOUTH RD CREAM RII	DGE, NJ 08514
PROPERTY OWNER	
Name: CITY OF BAYONNE	
Organization: City of Bayonne	
Address: 630 Avenue C	
City: Bayonne State: New Jerse	zip Code: <u>07002</u>
PROPOSED WELL LOCATION	
Facility Name: Dennis Collins Park	
Address: West 1st Street	
County: Hudson Municipality: Bayonne City	Lot: 6 Block: 385
Easting (X): 594327 Northing (Y): 660111 Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID: _MW-108
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: MONITORING	Other Use(s):
Diameter (in.): 2	Regulatory Program Requiring Wells/Borings:
Depth (ft.): _15	Case ID Number:
Pump Capacity (gpm): 0	Deviation Requested: N
Drilling Method: Hollow Stem Augers	
Attachments:	
SPECIFIC CONDITIONS/REQUIREMENTS	

Approval Date: August 27, 2018 Cat
Expiration Date: August 27, 2019

Approved by the authority of: Catherine R. McCabe Commissioner

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

Well Permit -- Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E201808777

WELL PERMIT

New Well

DEVIATION INFORMATION	ON
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E201808777**

MONITORING WELL RECORD

PROPERTY	OWNER:	CITY OF BA	YONNE				
Company/Organization: City of Bayonne							
Address: 630 Avenue C Bayonne, New Jersey 07002							
		·					
		nnis Collins Pa	ırk				
Address: W							
County: Hu	dson	_ Municipality	y: Bayonne Cit	ty	_ Lot:_6	Block: 38	5
Easting (X):	594327	Northing	(Y): <u>660111</u>		DATE WELL ST	TARTED: September	7, 2018
Coordi	nate System: N	J State Plane (NAD83) - USFI	EET DA	ATE WELL COM	PLETED: September	7, 2018
WELL USE:	MONITOR	ING					
Other Use(s)	:				Local ID: MY	W-108	
WELL CON	STRUCTION	1					
Total Depth	Drilled (ft.):_	13	Finished We	ell Depth (ft.):	13	Well Surface: Flush	n Mount
	Depth to	Depth to	Diameter		Material		/Screen # Used
Darrahala	Top (ft.)	Bottom (ft.)	(inches)			(lbs	/ch no.)
Borehole Casing	0	3	2		PVC	C	ch 40
Screen	3	13	2		PVC		.010
Sciccii	_					.010	
	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner	Bentonite (lbs.)	Material Neat Cement (lbs.)	Water (col)
Grout	0	1	8	2	5	Neat Cement (ibs.)	Water (gal.) 2.50
Gravel Pack	1	13	8	2	U	Morie #1	2.00
Grouting Met	hod: Gravity	method		Dri	lling Method: Hol	low Stem Augers	
ADDITIONAL INFORMATION Protective Casing: No Pump Capacity: _ gpm Static Water Level: 12 ft. below land surface Total Design Head: _ ft. Water Level Measure Tool: Tape Drilling Fluid: Well Development Period: _5 hrs. Drill Rig: Geoprobe 7720 Method of Development: Submersible Health and Safety Plan Submitted? Yes Pump Type: ATTACHMENTS:							
GEOLOGIC LOG							
0 - 13: Brown SM - Silty sands, sand-silt mixtures							
ADDITION	AL INFORMA	ATION:					

Driller of Record:

John Brass,
MONITORING LICENSE # 545089

Company:

ENVIRONMENTAL PROBING
INVESTIGATION

Well Permit Number E202104365

			MONITO	ORING WEI	LL RECORD		
PROPERTY	PROPERTY OWNER: CITY OF BAYONNE						
Company/Organization: City of Bayonne							
Address: 63	30 Avenue C B	Bayonne, New J	Jersey 07002				
WELL LOC	ATION: De	nnis Collins Pa	nrk				
Address: W	est 1st Street e	extend riser to 1	neet new ground	d surface			
County: Hu	County: Hudson Municipality: Bayonne City Lot: 6 Block: 385					5	
Easting (X):	594327	Northing	(Y): <u>660111</u>		DATE WELL ST	CARTED: April 9, 202	1
			NAD83) - USFI			PLETED: April 9, 202	
WELL USE:	MONITOR	ING			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	<i></i>
	•				Local ID: MV	V-108	
WELL CON	STRUCTION	J					
		0	Finished We	ll Depth (ft.):	13.5	Well Surface: Flush	ı Mount
1	Depth to	Depth to	Diameter		Material	Wgt/Rating	
	Top (ft.)	Bottom (ft.)	(inches)		Wateriai		/ch no.)
Borehole	0	13.60	8				,
Casing	0	3.60	2		PVC	S	ch 40
Screen	3.60	13.60	2	2 PVC .010		010	
	Depth to	Depth to	Outer	er Inner Material			
	Top (ft.)	Bottom (ft.)	` 1	Diameter (in)		Neat Cement (lbs.)	Water (gal.)
Grout	0	1	8	2	5		2.50
Gravel Pack	1	13.60	8	2		#1 well gravel	
Grouting Met	hod:			Dril	lling Method:		
	AL INFORMA	<u>ATION</u>		D	C		
Protective Ca		pelow land surf	Pace		np Capacity: _ gpm al Design Head: _ ft		
	Measure Tool:		acc		lling Fluid:	•	
	ment Period:				ll Rig:		
Method of De	evelopment:			Неа	alth and Safety Plan	Submitted? Yes	
Pump Type:							
ATTACHMI	ENTS:						
GEOLOGIC	LOG						
ADDITION	AL INFORMA	ATION: No c	hanges to well, r	new well pad to	match surface condi	tions	
				•			

ALLSTAR DRILLING & PROBING JOSEPH F NERI, Driller of Record: JOURNEYMAN LICENSE # 421702 Company: LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(For Dopartment accounty)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park	
Street Address: West First Street	
Municipality: City of Bayonne	(Township, Borough or City)
County: Hudson	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner City of Bayonne	
Well Location (Street Address) West 1st Street	
Well Location (Municipal Block and Lot) Block# 385	Lot # 6
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to	the well casing): E202104365
Site Well Number as shown on application or plans):	MW-108
Well Completion Date:	4/9/2021
Distance from Top of Casing (cap off) to ground surface (nearest 0)	0.43
5. Total Depth of Well to the nearest ½ foot:	14
6. Depth to Top of Screen (or top of open hole) from top of casing (ne	earest 0.01'): 4
7. Screen Length (or length of open hole) in feet:	10
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	2
12. Static Water Level from top of casing at the time of installation (near	arest 0.01'): 12
13. Yield (gallons per minute):	
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and min	outes):



Monitoring Well Certification Form B - Location Certification

Tror Department use o	(עור
Site Name PPG Site 174	
Site Name: PPG Site 174 List all AKAs: Dennis P. Collins Park	_
Street Address: W. 1st St.	
Municipality: City of Bayonne (Township, Borough or City) County: Hudson Zip Code: 07002	
Program Interest (PI) Number(s): G000011472 Case Tracking Number(s):	
and the state of t	_
1. Name of Well Owner City of Bayonne	
2. Well Location (Street Address) W. 1st St.	
3. Well Location (Municipal Block and Lot) Block# 385 Lot # 6	
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to the well casing): 201808777	
2. Site Well Number (As shown on application or plans): MW-108	-
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:	
Latitude: North 40-38-42.27 Longitude: West 74-07-54.11	
4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot;	
North 660111 East 594322	
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.75	
Elevation Top of Outer casing: 10.18 Elevation of ground: 10.18	-
Check one: ☐ NAVD 88 ☐ NVGD29 ☐ On Site Datum ☐ Other	
 Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identified here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88). 	y
GPS observations using KEYNET VRS SYSTEM in NAVD88	
7. Significant observations and notes:	
SECTION D. LAND SURVEYOR'S CERTIFICATION SEAL SEAL	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.	
Professional Land Surveyor's Signature: R. Thomas Lugy Date 3/22/21	
Surveyor's Name: R. Thomas Hugg License Number: 24GS03673700	
Firm Name: Colliers Engineering & Design Certificate of Authorization #: 24GA27986500	
Mailing Address 500 Scarborough Drive, Suite 108	
City/Town: Egg Harbor Twp. State New Jersey Zip Code: 08234	
Phone Number 609-910-4068 Ext.: 4419 Fax: 609-390-0040	

WELL NUMBER MW-108 APTIM 17 Princess Road Lawrence Township, NJ 08648 **CLIENT PPG** PROJECT NAME 174 PROJECT NUMBER PROJECT LOCATION Bayonne, NJ **DATE STARTED** 9/7/18 **COMPLETED** 9/7/18 GROUND ELEVATION _____ HOLE SIZE 8 inches DRILLING CONTRACTOR EPI $\sqrt{}$ WATER LEVEL DRILLING 7.00 ftDRILLING METHOD Track-mounted Geoprobe LOGGED BY J. Alexander CHECKED BY ____ NOTES SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. MATERIAL DESCRIPTION WELL DIAGRAM 0.0 Casing Type: PVC (ML) brown sandy SILT, cobbles to boulders, dry concrete bentonite 2.5 MLGENERAL BH / TP / WELL - GINT STD US LAB.GDT - 9/12/18 09:46 - C.\USERS\UEFFREY.ALEXANDER\UESKTOP\PPG 174 WELL LOGS.GP\ 5.0 (ML) brown sandy SILT and GRAVEL, dry ML(GC) crushed stone, concrete GC (ML) brown SILT, some gravel 7.5 filter sand ML screen (ML) brown SILT, brick material ML 10.0 10.0 (ML) brown sandy SILT and GRAVEL

Bottom of borehole at 13.5 feet.

(SW) f-m SAND, some gravel, dry

Wood, refusal, wet

(ML) sandy SILT, some gravel, wood pieces, wet

ML

SW

Well Permit Number **E202110151**

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: R	ICHARD L DAVIS, JOURNEYM	1AN LICENSE # 0022657		
Permit Issued to: SU	JMMIT DRILLING, LLC			
Company Address: 81	A CHIMNEY ROCK RD BRID	GEWATER TWP, NJ 08	805	
PROPERTY OWNER				
Name: N/A CITY OF BA	AYONNE			
Organization: <u>CITY OF BA</u>	YONNE			
Address: 630 AVENUE C				
City: Bayonne	State: New Jer	rsey	Zip Code: <u>07002</u>	
PROPOSED WELL LOCA	TION			
Facility Name: HCC Site 17	74			
Address: W 1ST ST				
County: <u>Hudson</u>	Municipality: Bayonne City	Lot: 6	Block: 385	
Easting (X): 594511	Northing (Y): 660087	Local ID:	MW-109	
• • • • • • • • • • • • • • • • • • • •	State Plane (NAD83) - USFEET			
SITE CHARACTERISTIC	S			
PROPOSED CONSTRUCT	TION			
WELL USE: MONITORIN	1G	Other Use(s):		
Diameter (in.): 2		Regulatory Program Requiring Wells/Borin	gs:	
			otim Bayonne	
Pump Capacity (gpm): 0			N	
D.11: M.d. 1 G :		1		
SPECIFIC CONDITIONS/	REQUIREMENTS			

Approval Date: October 5, 2021
Expiration Date: October 5, 2022

Approved by the authority of: Shawn M. LaTourette Acting Commissioner Well Permit -- Page 1 of 2

Terry Pilawski, Chief Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection Bureau of Water Allocation and Wells

PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number E202110151

WELL PERMIT

New Well

DEVIATION INFORMATION		
Purpose:		
Unusual Conditions:		
Reason for Deviation:		
Proposed Well Construction		

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]

A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]

If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]

In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation: by the expiration date of this permit.[N.J.A.C. 7:9D-1]

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]

This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]

This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]

This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Well Permit Number **E202110151**

MONITORING WELL RECORD

MONITORING WELL RECORD								
PROPERTY OWNER: N/A CITY OF BAYONNE								
Company/Organization: CITY OF BAYONNE								
Address: 630 AVENUE C Bayonne, New Jersey 07002								
WELL LOCATION: HCC Site 174								
Address: W 1ST ST								
County: Hudson Municipality: Bayonne City Lot: 6 Block: 385								
Easting (X): 594500 Northing (Y): 660092 DATE WELL STARTED: October 8, 2021								
			NAD83) - USFI			PLETED: October 8, 2		
WELL USE: MONITORING								
Other Use(s): Local ID: MW-109								
WELL CONSTRUCTION Total Depth Drilled (ft.): 17 Finished Well Depth (ft.): 17 Well Surface: Flush Mount								
Depth to Top (ft.)		Depth to Bottom (ft.)	Diameter (inches)	Material			Wgt/Rating/Screen # Used (lbs/ch no.)	
Borehole	0 17 6							
Casing	0	12	2	2 PVC			sch 40	
Screen 12 17			2 PVC			.010		
	Depth to	Depth to	Outer Inner			Material		
	Top (ft.)	Bottom (ft.)	Diameter (in.)	` '	Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)	
Grout Gravel Pack	9	9	6	2 2	5	94 94 #00 & #1 Morie	8	
			-		U' 36 d 1 G			
Grouting Method: Pressure method (Tremie Pipe) ADDITIONAL INFORMATION Protective Casing: No Static Water Level: 11 ft. below land surface Water Level Measure Tool: Tape Well Development Period: 1 hrs. Method of Development: Pump Pump Type: ATTACHMENTS: GEOLOGIC LOG 0 - 17: Brown GM - Silty gravels, gravel-sand-silt mixtures Drilling Method: Sonic Pump Capacity: _gpm Total Design Head: _ft. Drilling Fluid: Drilling Fluid: Drill Rig: SRS Health and Safety Plan Submitted? Yes ATTACHMENTS: GEOLOGIC LOG 0 - 17: Brown GM - Silty gravels, gravel-sand-silt mixtures								

Driller of Record: William A. Shinn, Jr.,

MASTER LICENSE # 0001587

Company: SUMMIT DRILLING, LLC



MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION

	(i or populations and only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Hudson County Chromate Site 174	
List all AKAs: Dennis Collins Park	
Street Address: West First Street	
· · ·	(Township, Borough or City)
	Zip Code: 07002
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002
SECTION B. WELL OWNER AND LOCATION	
Name of Well Owner	
Well Location (Street Address) West 1st Street	
3. Well Location (Municipal Block and Lot) Block# 385	Lot # 6
SECTION C. WELL LOCATION SPECIFICS	
Well Permit Number (This number must be permanently affixed to t	he well casing):
Site Well Number as shown on application or plans):	MW-109
Well Completion Date:	10/8/2021
Distance from Top of Casing (cap off) to ground surface (nearest 0.	.01'): 0.37
5. Total Depth of Well to the nearest ½ foot:	
6. Depth to Top of Screen (or top of open hole) from top of casing (ne	arest 0.01'): 12
7. Screen Length (or length of open hole) in feet:	
8. Screen or Slot Size:	0.010
9. Screen or Slot Material:	PVC
10. Casing Material (PVC, steel, or other – specify):	PVC
11. Casing Diameter (inches):	
12. Static Water Level from top of casing at the time of installation (nea	rest 0.01'): 11
13. Yield (gallons per minute):	2
14. Development Techinque (specify):	Pump and surge
15. Length of Time well is developed/pumped or bailed (hours and mine	utes): 1



Monitoring Well Certification Form B - Location Certification

SECTION A. SITE NAME AND LOCATION	\(\(\cdot\) = 5 parametric acc circly						
Site Name: HUDSON COUNTY CHROMATE SITE 174							
List all AKAs: DENNIS COLLINS PARK							
Street Address: W 1ST ST							
Municipality: BAYONNE CITY	(Township, Borough or City)						
County: HUDSON	Zip Code: 07002						
Program Interest (PI) Number(s): G000011472	Case Tracking Number(s): RPC930002						
SECTION B. WELL OWNER AND LOCATION							
Name of Well Owner							
Well Location (Street Address) WEST 1ST AVENUE							
3. Well Location (Municipal Block and Lot) Block# 385	Lot # 6						
SECTION C. WELL LOCATION SPECIFICS							
Well Permit Number (This number must be permanently affixed to	the well casing): E202110151						
2. Site Well Number (As shown on application or plans): MW-109							
3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:							
Latitude: North 40-38-42.08							
4. New Jersey State Plane Coordinates NAD 83 datum, US survey for	eet units, to nearest foot:						
North 660092	ast <u>594500</u>						
5. Elevation of Top of Inner Casing (cap off) at reference mark (nea	rest 0.01'): 12.43						
Elevation Top of Outer casing: 12.82 Elevation	of ground: 12.8						
Check one: NAVD 88 ☐ NGVD29 ☐ On Site Datum	☐ Other						
Source of elevation datum (benchmark, number/description and e here, assume datum of 100', and give approximated actual elevation							
LEICA SMARTNET							
7. Significant observations and notes:							
SECTION D. LAND SURVEYOR'S CERTIFICATION	SEAL						
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.							
Professional Land Surveyor's Signature:	Date 01/17/2022						
Surveyor's Name: Keith M. Ludwig	License Number: 24GS04324400						
Firm Name: Pennoni Associates	Certificate of Authorization #: GA28033300						
Mailing Address 515 Grove Street, Sutie 1B							
City/Town: Haddon Heights State	J Zip Code: 08035						
Phone Number 856-284-0019 Ext.:	Fax:						

						WELL	NUMBER MW-109		
100		APTIM					17.02 1 01		
AP ⁻	IIM								
CLIENT PPG									
	PROJECT NUMBER 631012057								
						GROUND ELEVATION 12.8 ft HOLE SIZE inches			
					mit	GROUND WATER LEVEL:			
	NG MET								
	_				CHECKED BY _JA	<u></u>			
NOTES	<u> </u>					EASTING 594500			
O DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATE	RIAL DESCRIPTION	WELL DIAGRAM		
				3	FILL/DGA				
_				\geqslant			▼ concrete		
				X					
				2.5			10.2		
			XXX	2.5	(SP) SAND, yellow/orange, media	um- to coarse-, loose, dry	10.3		
						-			
		SP							
5				5.0	(SP) Same as above		7.8		
					(or) same as above				
		SP					⋖ bentonite		
				7.0			5.8		
-			H	7.5	COBBLES		5.3		
_		ML			(ML) Sandy SILT, gray, little timb	ers, loose gravel, semi-dense, dry			
		IVIL		8.5	(MI) OILT black	and the days and a	4.3		
		N 41			(ML) SILT, black, some sand, littl	e scnists, dense, odor			
10		ML		10.0			2.0		
10				10.0	(ML) SILT, black-gray, some med	lium rounded gravel, little concrete, damp, odor	2.8		
					· · · · · · · · · · · · · · · · · · ·	2			
• -		ML							
				12.0			0.8		
					(ML) SILT, black, some timbers,	some gravel, staining, odor			
		ML					d filter sand		
15				15.0			-2.2 screen		
			1		(ML) SILT, gray, some staining				
.]		ML							
		IVIL							
. 4				17.0	TIMPEDS		-4.2		
			XXX	17.5	TIMBERS, wood (ML) SILT, gray, native		-4.7		
		ML			(IVIL) OIL I, Glay, Halive				
		IVIL		10.0			-6.2		
				19.0	Bottom	of borehole at 19.0 feet.	-6.2		