Unknown Off-Site Source Incidents

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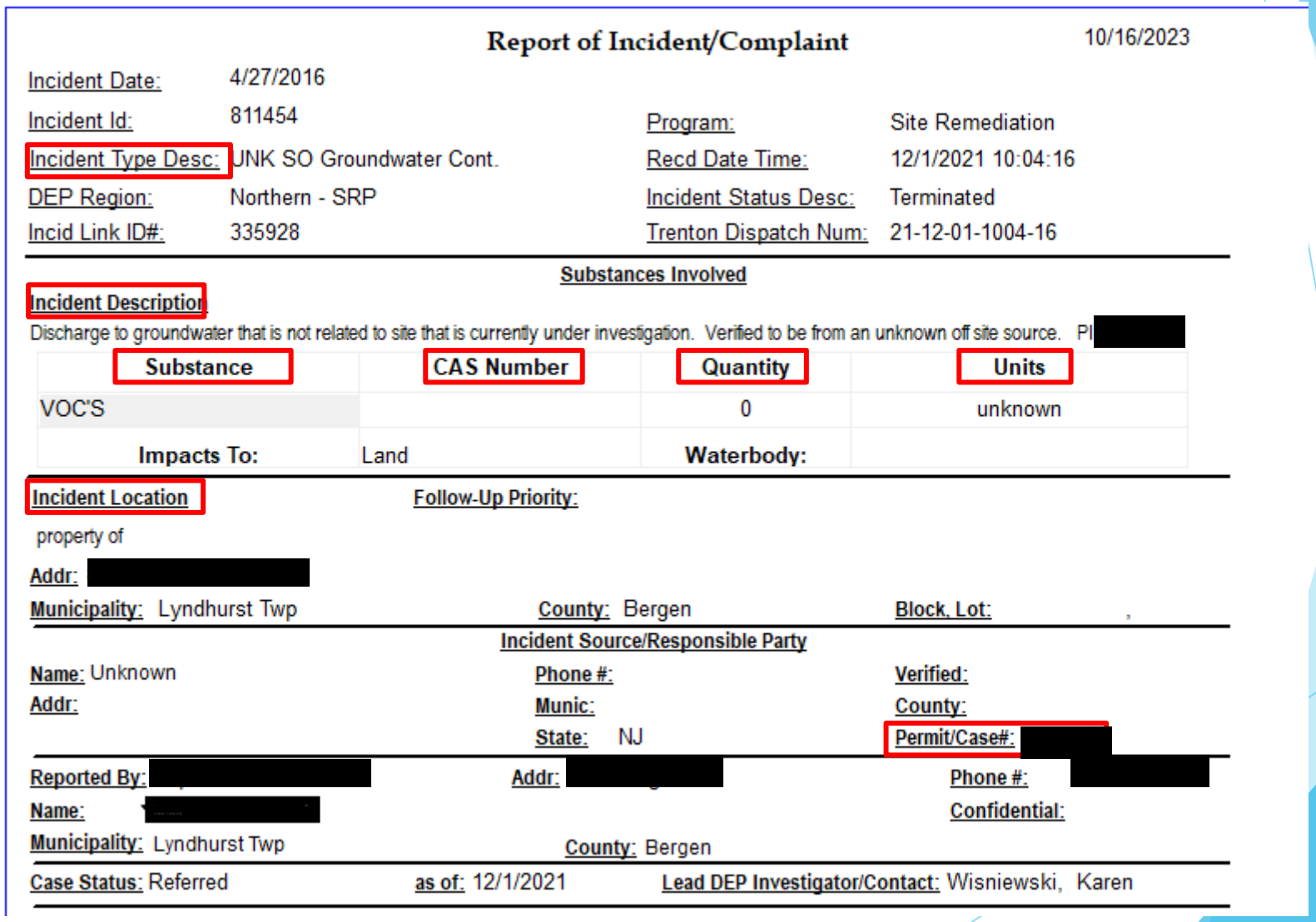
Receptor Survey Team (RST)

Unknown Off-Site Source Incidents

RST's Mission: review verified unknown off-site source incidents to determine if receptor sampling has been triggered. If so, RST completes the vapor intrusion or potable well sampling.

Covering: incident report submission issues and how RST is looking to improve information accuracy with proposed Unknown Off-Site Source Form.

Common issues seen with incident submissions



Report of Incident/Complaint 10/16/2023

Incident Date: 4/27/2016
Incident Id: 811454
Incident Type Desc: UNK SO Groundwater Cont.
DEP Region: Northern - SRP
Incid Link ID#: 335928
Program: Site Remediation
Recd Date Time: 12/1/2021 10:04:16
Incident Status Desc: Terminated
Trenton Dispatch Num: 21-12-01-1004-16

Substances Involved

Incident Description

Discharge to groundwater that is not related to site that is currently under investigation. Verified to be from an unknown off site source. Pl[redacted]

Substance	CAS Number	Quantity	Units
VOC'S		0	unknown

Impacts To: Land **Waterbody:**

Incident Location **Follow-Up Priority:**

property of
Addr: [redacted]
Municipality: Lyndhurst Twp County: Bergen Block, Lot: ,

Incident Source/Responsible Party

Name: Unknown
Addr:
Phone #:
Munic:
State: NJ
Verified:
County:
Permit/Case#: [redacted]

Reported By: [redacted] Addr: [redacted] Phone #: [redacted]
Name: [redacted] Confidential:
Municipality: Lyndhurst Twp County: Bergen

Case Status: Referred as of: 12/1/2021 Lead DEP Investigator/Contact: Wisniewski, Karen

Why does it matter?

- RST currently verifies the incident report by looking through NJEMS reports.
- If information in reports doesn't match the data reported in the incident RST will have to call or email the LSRP to confirm.
- When a hotline incident is an IEC but is not called in as such, action on the IEC condition is delayed.

Proposed Form

New Jersey Department of Environmental Protection
Site Remediation Program

UNKNOWN OFFSITE SOURCE FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

1. Name of Site Reporting the Unknown Off-Site Source Incident:
2. Program Interest (PI) Number(s) of Site Reporting the Incident:
3. Verified Unknown Off-Site Source DEP Hotline Incident Number:
4. Email of Person Reporting the Verified Unknown Off-Site Source Incident:

SECTION B. DESCRIPTION OF INCIDENT ATTRIBUTED TO AN UNKNOWN OFFSITE SOURCE

1. Is the incident an Immediate Environmental Concern (IEC) or Vapor Concern (VC)?
2. Identify the contaminants, the concentrations, and the media that are impacted (soils, ground water, potable water, surface water, sediments, SSSG, etc.) associated with the off-site contamination

SECTION C. ADMINISTRATIVE

1. Submit this form with attachments to Karen.Wisniewski@dep.nj.gov - after reporting the unknown offsite incident to the hotline.

SECTION D. ATTACHMENTS

1. A MAP SHOWING THE INCIDENT LOCATION
2. LABORATORY DATA

Data Submission

Table 3 (Continued)

Groundwater Gauging & Analytical Data

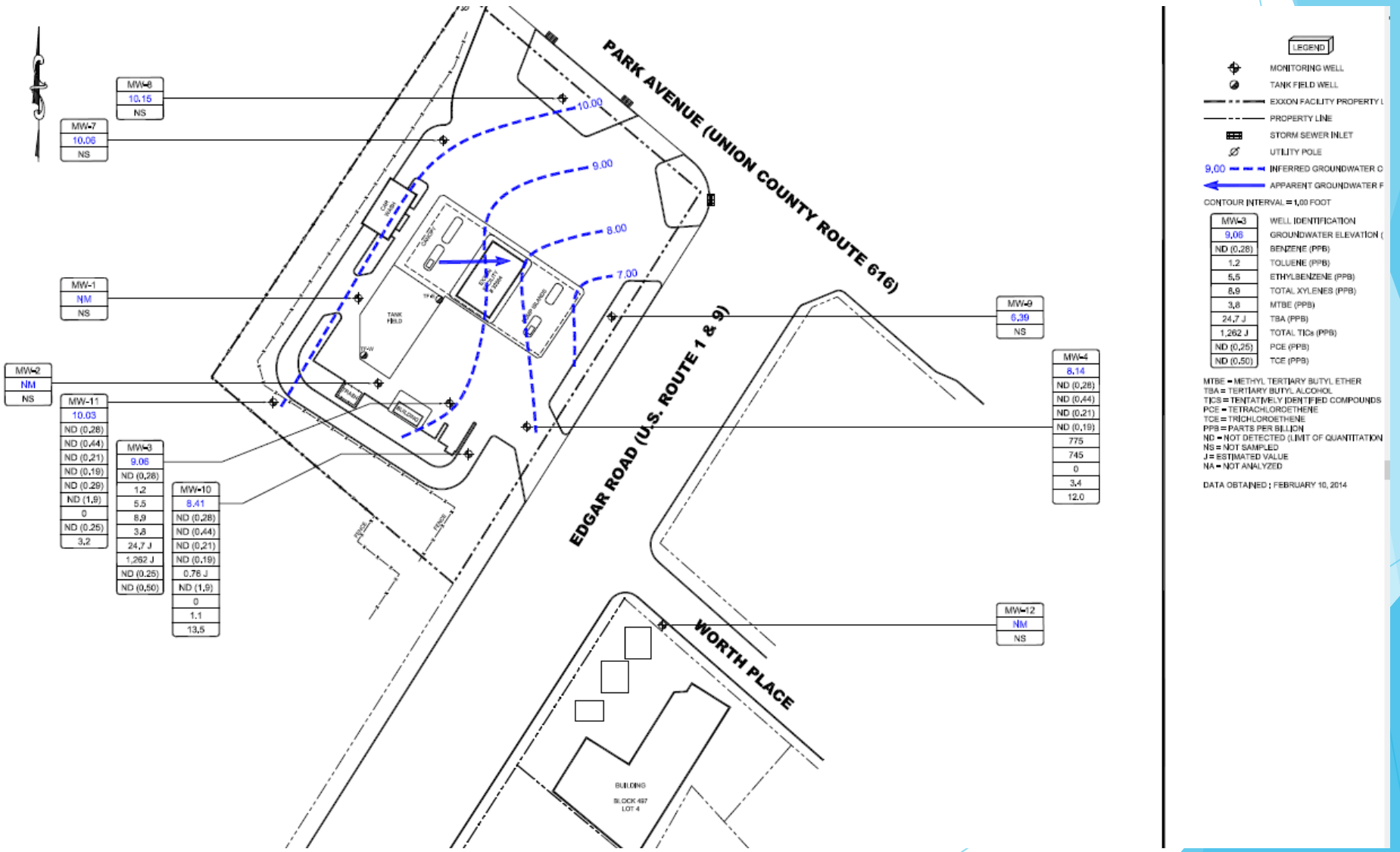
[redacted]

Linden, New Jersey

April 2, 2010 through February 10, 2014

		Gauging Data					Analytical Data												
Sample ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	Total TICS (µg/L)	Total Alkanes (µg/L)	PCE (µg/L)	TCE (µg/L)	Chloro-form (µg/L)	Comments
GW Vapor Intrusion SL		N/A	N/A	N/A	N/A	N/A	20	330000	700	8600	~	580	~	~	~	31	2	70	
GWQS		N/A	N/A	N/A	N/A	N/A	1	600	700	1000	~	70	100	500	100	1	1	70	
MW-3	04/02/2010	15.55	5.10	ND	ND	10.45	0.32 J	1.3	ND(0.27)	2.2	3.8 J	14.9	126	522 J	NA	ND(0.27)	1.0	ND(0.23)	Screen Elevation = 10.55'
	07/08/2010	15.55	6.37	ND	ND	9.18	0.40 J	0.41 J	0.35 J	1.9	3.1 J	10.6	69.9	532 J	NA	ND(0.27)	ND(0.24)	ND(0.23)	Screen Interval = 5-15'
	04/20/2011	15.55	5.26	ND	ND	10.29	5.7	1.1	0.88 J	6.3	14.0 J	14.2	81.9	545 J	NA	ND(0.27)	0.91 J	ND(0.23)	
	07/13/2011	15.55	6.18	ND	ND	9.37	1.4	0.31 J	0.34 J	1.6	3.7 J	12.9	61.9	465 J	NA	ND(0.32)	ND(0.21)	ND(0.21)	
	01/31/2012	15.55	5.81	ND	ND	9.74	ND(0.5)	ND(0.7)	ND(0.8)	1 J	1 J	12	62 J	470 J	NA	ND(0.8)	ND(1)	ND(0.8)	
	05/14/2012	15.55	5.94	ND	ND	9.61	1	ND(0.7)	1 J	5	7 J	14	40 J	1100 J	NA	ND(0.5)	ND(0.5)	ND(0.8)	
	08/01/2012	15.55	6.38	ND	ND	9.17	2	0.8 J	1 J	6	10 J	12	57 J	990 J	NA	ND(0.5)	ND(0.5)	ND(0.8)	
	11/21/2012	15.55	5.28	ND	ND	10.27	2	1	1	7	11	9	55	1100	NA	ND(0.5)	ND(0.5)	ND(0.8)	
	04/08/2013	15.55	6.08	ND	ND	9.47	4	0.8 J	0.9 J	2 J	8 J	13	54 J	790 J	NA	ND(0.5)	ND(0.5)	ND(0.8)	
	11/26/2013	15.55	6.89	ND	ND	8.66	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	4 J	26 J	330 J	NA	ND(0.5)	ND(0.5)	ND(0.8)	
	02/10/2014	15.55	6.49	ND	ND	9.06	ND(0.28)	1.2	5.5	8.9	15.6	3.8	24.7 J	1262 J	0	ND(0.25)	ND(0.50)	ND(0.25)	
MW-4	04/02/2010	14.15	4.98	ND	ND	9.17	61.0	25.7	79.5	366	532	335	2090	229 J	NA	1.4	15.1	ND(0.23)	Screen Elevation = 11.15'
	07/08/2010	14.15	5.76	ND	ND	8.39	16.0	ND(0.30)	ND(0.27)	0.57 J	16.6 J	66.9	3760	114.1 J	NA	0.78 J	10.9	ND(0.23)	Screen Interval = 3-13'
	04/20/2011	14.15	5.02	ND	ND	9.13	13.0	7.6	21.0	85.3	126.9	73.3	203	77.7 J	NA	1.4	16.9	ND(0.23)	
	07/13/2011	14.15	5.64	ND	ND	8.51	4.7	ND(0.15)	ND(0.21)	ND(0.17)	4.7	115	727	27.5 J	NA	1.2	15.8	ND(0.21)	
	01/31/2012	14.15	5.59	ND	ND	8.56	0.6 J	ND(0.7)	ND(0.8)	ND(0.8)	0.6 J	530	130	0	NA	590	140	ND(0.8)	
	05/14/2012	14.15	6.88	ND	ND	7.27	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	350	210	0	NA	150	68	ND(0.8)	
	08/01/2012	14.15	5.78	ND	ND	8.37	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	500	320	0	NA	100	160	ND(0.8)	
	11/21/2012	14.15	5.84	ND	ND	8.31	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	1100	3100	0	NA	27	16	ND(0.8)	
	04/08/2013	14.15	5.60	ND	ND	8.55	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	240	310	0	NA	250	52	ND(0.8)	
	11/26/2013	14.15	6.28	ND	ND	7.87	ND(0.5)	ND(0.7)	ND(0.8)	ND(0.8)	BRL	340	1300	0	NA	63	19	ND(0.8)	
	02/10/2014	14.15	6.01	ND	ND	8.14	ND(0.28)	ND(0.44)	ND(0.21)	ND(0.19)	BRL	775	745	0	0	3.4	12.0	ND(0.25)	

Map


PARK AVENUE (UNION COUNTY ROUTE 616)
EDGAR ROAD (U.S. ROUTE 1 & 9)
WORTH PLACE
MW-8
10.15
NS
MW-7
10.06
NS
MW-1
NM
NS
MW-2
NM
NS
MW-11
10.03
ND (0.28)
ND (0.44)
ND (0.21)
ND (0.19)
ND (0.29)
ND (1.9)
0
ND (0.25)
3.2
MW-3
9.06
ND (0.28)
1.2
5.5
8.9
3.8
24.7 J
1,262 J
ND (0.25)
ND (0.50)
MW-10
8.41
ND (0.28)
ND (0.44)
ND (0.21)
ND (0.19)
0.76 J
ND (1.9)
0
1.1
13.5
MW-9
6.39
NS
MW-4
8.14
ND (0.28)
ND (0.44)
ND (0.21)
ND (0.19)
775
745
0
3.4
12.0
MW-12
NM
NS
10.00
9.00
8.00
7.00
TANK FIELD
BUILDING
BUILDING
BLOCK 497
LOT 4
LEGEND
MONITORING WELL
TANK FIELD WELL
EXXON FACILITY PROPERTY L
PROPERTY LINE
STORM SEWER INLET
UTILITY POLE
9,00 INFERRED GROUNDWATER C
APPARENT GROUNDWATER F
CONTOUR INTERVAL = 1.00 FOOT
MW-3 WELL IDENTIFICATION
9.06 GROUNDWATER ELEVATION (
ND (0.28) BENZENE (PPB)
1.2 TOLUENE (PPB)
5.5 ETHYLBENZENE (PPB)
8.9 TOTAL XYLENES (PPB)
3.8 MTBE (PPB)
24.7 J TBA (PPB)
1,262 J TOTAL TICs (PPB)
ND (0.25) PCE (PPB)
ND (0.50) TCE (PPB)
MTBE = METHYL TERTIARY BUTYL ETHER
TBA = TERTIARY BUTYL ALCOHOL
TICS = TENTATIVELY IDENTIFIED COMPOUNDS
PCE = TETRACHLOROETHENE
TCE = TRICHLOROETHENE
PPB = PARTS PER BILLION
ND = NOT DETECTED (LIMIT OF QUANTITATION
NS = NOT SAMPLED
J = ESTIMATED VALUE
NA = NOT ANALYZED
DATA OBTAINED : FEBRUARY 10, 2014

Goal of implementing the form

- More quickly address IECs.
- In some cases, incident data may not have been submitted to the Department yet via a PA/SI or other reports, therefore, is undiscoverable.
- Reduce the need to reach out to the LSRP to verify information.
- Enable RST to more quickly address incidents reported.
- Hotline reporting accidents happen.

Moving Forward

- The form is not currently mandatory; however, putting it into practice moving forward is appreciated to provide RST the necessary information to determine if receptor sampling is necessary and to reduce the number of follow up emails and phone calls.

- Please use the proposed form in this PowerPoint as a guide in drafting your RST email.

- Email submissions to Karen.Wisniewski@dep.nj.gov

Questions?