

MINE TRAINING CENTER
WATER TANK T-10
Reg. # 031-00000137



Spill Prevention Response Plan

Mine Training Center Water Tank (T-10) Tank Registration Number 031-00000137

Site Activities

Domestic water is hard-piped into a 10,000 gallon aboveground storage tank. The water in the tank is utilized as a “surge tank” for mine fire training. The water in the tank is piped to a pump and then to a fire hydrant. The fire hydrant is part of the training and allows for firefighting connections.

Applicable Hazards and Process Information

The Mine Training Center Water Tank stores domestic water for mine fire training. There are no additional additives in the water.

Water CAS # 7732-18-5

The Mine Training Center Water Tank stores a maximum volume of 10,000 gallons of domestic water.

There are no wastes stored in the aboveground storage tank at this site.

(Material) Safety Data Sheets

(Material) Safety Data Sheets for the water stored in this tank is attached to this plan. **Attachment A** is the (M)SDS for Water. According to the (M)SDS for water, the health rating is (0).

Site Map of Aboveground Storage Tank Facility

Attachment B indicates all pertinent information regarding the aboveground storage tank location.

Preventative Maintenance Program

This tank does not have a leak detection system. However, the employees that work at the tank conduct a visual inspection prior to adding or removing to or from the tank. All operators must inspect the valves, gaskets and flange for deterioration and/or leaking before removing adding water to or removing water from the tank. Finally, to prevent accidental failure due to freezing, this tank is not utilized during the winter.

Tank Inspection

The tank will be inspected on a quarterly basis utilizing the inspection checklist found in **Attachment C**. Further, all tanks will be inspected, using the checklist found in **Attachment D**, on an annual basis with respect to the minimum standards set forth in Appendix B of 47 CSR 62.

AST System Stress Points

One stress point for this tank can be found at the pipe, flange and gasket leaving the tank at the lower side. One additional stress point for this tank is the bottom of the tank where it rests. The final stress point for this tank is the center section of the tank when the tank is full. This section of the tank is a weak point when the tank is at full capacity.

Employee Training Program

Tank operators are trained with respect to proper operation of the tank, as well as, the equipment associated with the filling and dispensing of water from the tank. Also, operators are trained with respect to visual cues for the early detection of leaks around valves, flanges, gaskets or hoses from the tank. Also, the operator is instructed when and who to contact if there are any concerns regarding the integrity of the tank, or its secondary containment system.

Corrosion Protection and Monitoring

This tank is a plastic polymer tank and does not require corrosion protection.

Security System

Tank valves are placed in the closed position after dispensing operations are complete. The tank valve handle is removed and stowed in a secure location to prevent unauthorized discharge or dispensing when the tank is not in use. The pump utilized for to increase the pressure of the water leaving the system is removed when not in use.

Spill Prevention Measures

Overfill prevention is prevented by visual inspection during the filling process.

Emergency Response Information

John Hando, Emergency Response Coordinator, Environmental Health and Safety

Brian Lemme, Environmental Health and Safety Specialist, Stormwater Specialist

Chain of Command

Joshua Caldwell, Manager of the Mine Training Academy

Brian Lemme, Environmental Health and Safety Specialist, Stormwater Specialist

John Hando, Emergency Response Coordinator, Environmental Health and Safety

Contact Information

Brian Lemme
975 Rawley Lane
Morgantown, WV 26506
Office (304) 293-8742
Cell (304) 692-4005

John Hando
975 Rawley Lane
Morgantown, WV 26506
Office (304) 293-5799
Cell (304) 680-2165

Response Contractors

Miller Environmental
7 Pixler Hill Road
Morgantown, WV 26508
Office (304) 292-8655
Cell (304) 692-5300

Ryan Environmental, LLC
5793 West Veterans Memorial Highway,
Suite 101
Bridgeport, WV 26330
Office (304) 842-5578

Response Actions

Cease pumping of domestic water into the tank. Determine the cause of the leak.
Repair any portions of the tank, piping, valves or flanges that are leaking.

Contacts in Event of Release

City of Chester, Water Department	(304) 387-0114
Hancock County Emergency Management	(304) 564-4040
City of Chester, Police Department	(304) 387-2820
Chester Volunteer Fire Department	(304) 387-1690
Hancock County, Health Department	(304) 564-3343
Morgantown Utility Board	(304) 292-8443
City of Morgantown, Fire Department	(304) 284-7481
City of Morgantown, Police Department	(304) 284-7522
Monongalia County Emergency Management	(304) 598-0301
Monongalia County Dispatch	(304) 599-6382
Monongalia County Health Department	(304) 598-5100
East Dunkard Water Authority, Dilliner, PA	(724) 943-3713
Dunkard Valley Joint Municipal Authority	(724) 943-3000
Masontown, PA Water Authority	(724) 583-7731
WVDEP Spill Line	800-642-3074
WVDNR-Wildlife	(304) 825-6787

ATTACHMENT A

SAFETY DATA SHEET

Version 5.3
Revision Date 10/01/2014
Print Date 11/10/2014

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Water

Product Number : 320072
Brand : Sigma-Aldrich

CAS-No. : 7732-18-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : H₂O H₂O

Molecular weight : 18.02 g/mol

CAS-No. : 7732-18-5

EC-No. : 231-791-2

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If not breathing give artificial respiration

4.. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

No data available

5.4 Further information

The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2 Environmental precautions

No data available

6.3 Methods and materials for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Personal protective equipment

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection

No special protective equipment required.

Control of environmental exposure

Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: colourless
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	6.0 - 8.0 at 25 °C (77 °F)
e) Melting point/freezing point	0.0 °C (32.0 °F)
f) Initial boiling point and boiling range	100 °C (212 °F) - lit.
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.000 g/cm ³ at 3.98 °C (39.16 °F)
n) Water solubility	completely miscible
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: ZC0110000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Taking into account local regulations the product may be disposed of as waste water after neutralisation.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Water

CAS-No.
7732-18-5

Revision Date

New Jersey Right To Know Components

Water

CAS-No.
7732-18-5

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

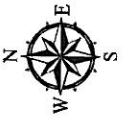
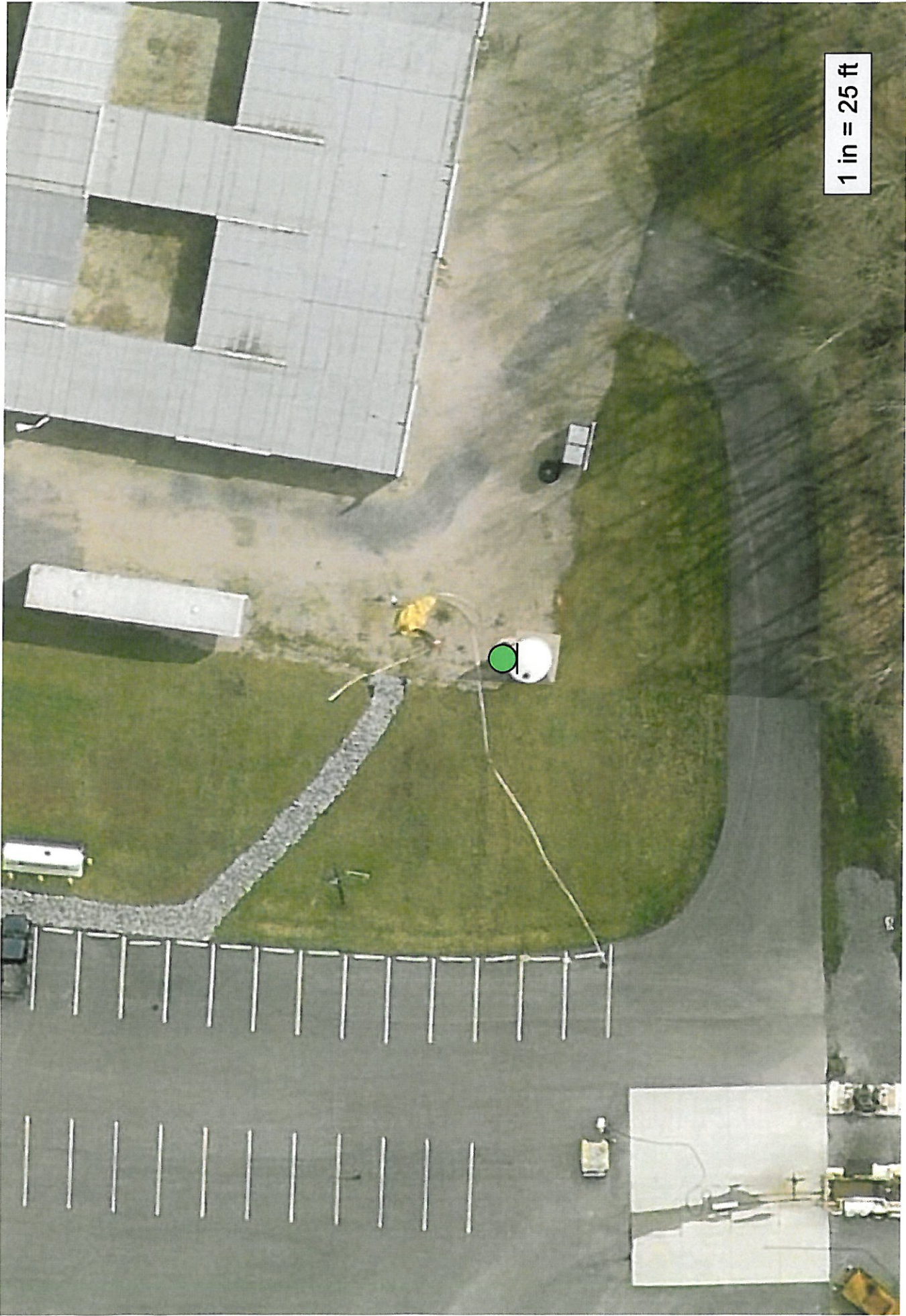
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956


Version: 5.3

Revision Date: 10/01/2014


Print Date: 11/10/2014


ATTACHMENT B



Inlet

Outfall

AST

Storm line





Closest Street: West - Little Indian Creek Rd (245.72')
Nearby Waterway: West - Dolls Run (192.71')
Abutting Property: South (202.59'), West (275.57')

Abutting Properties



Inlet Outfall AST Storm line



ATTACHMENT C

TANK IN-SERVICE INSPECTIONS CHECKLIST

	Satisfactory	Unsatisfactory	Non Applicable	Comments
Foundation and Supporting Structure				
Check for settlement around perimeter of tank.				
Check for settlement of structure supporting tank.				
Check for settlement of tank into the base.				
Stormwater and Housekeeping				
Inspect site for drainage away from the tank and associated stormwater system.				
Inspect the area for build up of trash, vegetation, or other debris.				
Shell and Supporting Appurtenances				
Visually inspect for paint failures, pitting, corrosion, dents, punctures, cracks or cuts.				
Check bracing and supports for lines and equipment.				
Inspect visible metallic parts for corrosion and wear.				
Inspect condition and functioning of hatch cover.				
Inspect scaffold support for corrosion, wear, and structural soundness.				
Piping and Valves				
Inspect manifold piping, hoses, and valves for leaks.				
Inspect flanges and around bolting for leaks.				
Inspect connections for leaks and for proper valve operation.				
Locate and document any leaks by sketch or photo.				
Overfill devices				
Check freedom of movement of marker and float.				
Inspect alarm system				

ATTACHMENT D

Aboveground Storage Tank Initial and Annual Inspection Checklist

Item to Be inspected	Yes	No	N/A
Does the AST meet current design standards?			
Is there settling around the tank?			
Does runoff go away from tank?			
Does foundation of tank appear to be adequate for tank?			
Is AST compatible with material stored in tank?			
Are there any cracks in the tank shell?			
Are there any worn areas on the tank?			
Is there any damage or defects to the tank?			
Are the connections tight and aligned?			
Is there any discoloration to the tank shell?			
Are there any stains around the tank?			
Are there signs of a recent release around the tank?			
Does tank have galvanic protection?			
Does the tank have some other corrosion protection?			
Does the external shell have pits, corrosion or chips in paint or coating?			
Does tank have a release detection system?			
Does tank have written release prevention procedures?			
Is the tank a double walled tank?			
Does the tank have secondary containment?			
Can secondary containment hold 110% of the largest single tank?			
Is there sufficient freeboard for precipitation events?			
Is the secondary containment compatible with the tank contents?			
Are there cracks in the secondary containment?			
Are there low spots in the secondary containment?			
Is there vegetation growing in the secondary containment?			
Is there debris or trash in the secondary containment?			
Does the tank have a leak detection system?			
Are leak detection files available and up to date?			
Does tank have corrosion Protection?			
Are corrosion protection document available and up to date?			
Are Operation and Maintenance records available and up to date?			