



DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures under Control

Facility Name: ENPRO Services of Maine, Inc.
Facility Address: 106 Main Street South Portland, Maine 04106
Facility EPA ID #: MED 019051069

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

- X If yes - check here and continue with #2 below.
If no re-evaluate existing data, or
if data are not available skip to #6 and enter "IN" (more information needed) status code.

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

RCRA RECORDS CENTER
FACILITY ENPRO
I.D. NO. MED 019051069
FILE LOC. R-13
OTHER #108412

**Current Human Exposures Under Control
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2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be “**contaminated**”¹ above appropriately protective risk-based “levels” (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

	<u>Yes</u>	<u>No</u>	<u>?</u>	<u>Rationale / Key Contaminants</u>
Groundwater	<u>X</u>	<u> </u>	<u> </u>	<u>O&M ground water monitoring/petroleum and petroleum by products see table 2</u>
Air (indoors) ²	<u> </u>	<u>X</u>	<u> </u>	<u>Occupational use of the building is for the storage and treatment of petroleum and petroleum by products as listed above</u>
Surface Soil (e.g., <2 ft)	<u> </u>	<u>X</u>	<u> </u>	<u>The entire site is paved or covered by the treatment building, contaminant levels detected are below Maine interim based exposure guidelines.</u>
Surface Water	<u> </u>	<u>X</u>	<u> </u>	<u>Fore river is ¼ mile from the site, (see zoning map) surface water run off from the site is caught by city sewer, treated and discharged via POTW</u>
Sediment	<u> </u>	<u>X</u>	<u> </u>	<u>NA</u>
Subsurf. Soil (e.g., >2 ft)	<u> </u>	<u>X</u>	<u> </u>	<u>Media contaminant levels below Maine interim based exposure levels</u>
Air (outdoors)	<u> </u>	<u>X</u>	<u> </u>	<u>Air vents from treatment areas are piped into granular activated carbon before discharge to ambient air, hazardous waste tank has carbon filters on vent.</u>

 If no (for all media) - skip to #6, and enter “YE,” status code after providing or citing appropriate “levels,” and referencing sufficient supporting documentation demonstrating that these “levels” are not exceeded.

 X If yes (for any media) - continue after identifying key contaminants in each “contaminated” medium, citing appropriate “levels” (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.

 If unknown (for any media) - skip to #6 and enter “IN” status code.

Rationale and Reference(s): Quarterly sampling results dated June 10, 2009 indicate the following contaminants MTBE 12 ppb, Ethylbenzene 18 ppb, O-Xylene 3 ppb, styrene 3 ppb, Bromobenzene 2, 2- Chlorotouluene 1 ppb, Sec- Butylbenzene 2 ppb, 1, 2, 4-trimethylbenzene 74 ppb, Naphthalene 80 ppb, and DRO (diesel range organics C-10-C-28) at 590 to 2200 ppb (See Figure L-2 for monitoring well locations and photo showing the location of the site). Maine uses the lower value of the EPA MCL or the State of Maine Maximum Exposure Guidelines (MEG's) for ground water. All ground water in Maine must meet the MEG's to be considered remediated. In a report provided by ENPRO dated October 2001 data from ENPRO soil borings indicate that soils beneath the facility do not exceed the State of Maine's interim risk based exposure levels (See Table 3). Quarterly ground water monitoring indicates contaminant levels of DRO and VOC's staying within historic levels indicating no new impacts from the facility operation. (See Table 2)

There are no public or private water supply sources in the vicinity of the facility. The area is serviced by the Portland Water District that obtains its supply from Sebago Lake approximately 13 miles Northwest of the site.

Footnotes:

¹ "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

² Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

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3. Are there **complete pathways** between “contamination” and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential Human Receptors (Under Current Conditions)

<u>“Contaminated” Media</u>	Residents	Workers	Day-Care	Construction	Trespassers	Recreation	Food ³
Groundwater	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>			<u>NO</u>
Air (indoors)	<u>NO</u>	<u>NO</u>	<u>NO</u>				
Soil (surface, e.g., < 2 ft)	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>
Surface Water	<u>NO</u>	<u>NO</u>			<u>NO</u>	<u>NO</u>	<u>NO</u>
Sediment	<u>NO</u>	<u>NO</u>			<u>NO</u>	<u>NO</u>	<u>NO</u>
Soil (subsurface e.g., > 2 ft)				<u>NO</u>			<u>NO</u>
Air (outdoors)	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>		

Instructions for Summary Exposure Pathway Evaluation Table:

1. Strike-out specific Media including Human Receptors’ spaces for Media which are not “contaminated”) as identified in #2 above.
2. enter “yes” or “no” for potential “completeness” under each “Contaminated” Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential “Contaminated” Media - Human Receptor combinations (Pathways) do not have check spaces (“___”). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

X If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter “YE” status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).

_____ If yes (pathways are complete for any “Contaminated” Media - Human Receptor combination) - continue after providing supporting explanation.

_____ If unknown (for any “Contaminated” Media - Human Receptor combination) - skip to #6 and enter “IN” status code

Rationale and Reference(s): There are no complete pathways where workers or the public would come in contact with the contaminated media at the site because of the facility construction. The facility is covered by impermeable surfaces, asphalt, concrete and impermeable liners, placing a barrier between any contaminated media at the site and human exposure. There is no surface water on site and no discharges of groundwater. Contaminated soils identified in an October, 2001 report submitted by ENPRO indicates soil contaminant levels below risk based levels. The area is also serviced by public water from the Portland Water District that receives its supply from Sebago Lake approximately

13 miles North west of the facility. Groundwater in area is not used by industry or private homes in the area. (see table 3).

REF: Maine DEP remedial action guidelines (RAG's) , development of risk based clean up levels for petroleum hydrocarbons by MACTEC Engineering for Maine Department of Environmental Protection, October 2008.

Footnotes:

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

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4 Can the **exposures** from any of the complete pathways identified in #3 be reasonably expected to be **“significant”**⁴ (i.e., potentially “unacceptable” because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable “levels” (used to identify the “contamination”); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable “levels”) could result in greater than acceptable risks)?

_____ If no (exposures can not be reasonably expected to be significant (i.e., potentially “unacceptable”) for any complete exposure pathway) - skip to #6 and enter “YE” status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

_____ If yes (exposures could be reasonably expected to be “significant” (i.e., potentially “unacceptable”) for any complete exposure pathway) - continue after providing a description (of each potentially “unacceptable” exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

_____ If unknown (for any complete pathway) - skip to #6 and enter “IN” status code

Rationale and Reference(s):

Footnotes:

⁴ If there is any question on whether the identified exposures are “significant” (i.e., potentially “unacceptable”) consult a human health Risk Assessment specialist with appropriate education, training and experience.

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5 Can the "significant" exposures (identified in #4) be shown to be within acceptable limits?

_____ If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing and referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).

_____ If no (there are current exposures that can be reasonably expected to be "unacceptable")- continue and enter "NO" status code after providing a description of each potentially "unacceptable" exposure.

_____ If unknown (for any potentially "unacceptable" exposure) - continue and enter "IN" status code

Rationale and Reference(s):

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6. Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (and attach appropriate supporting documentation as well as a map of the facility):

YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the ENPRO Services of Maine Inc. facility, EPA ID #MED 019051069 located at 106 Main St. S. Portland, Maine 04106 under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

NO - "Current Human Exposures" are NOT "Under Control."

IN - More information is needed to make a determination.

Completed by (signature) Richard Kaselis Date 9/18/09
(print) RICHARD KASELIS
(title) ESTM

Supervisor (signature) Stacy A. Ladner Date 9/18/09
(print) Stacy A. Ladner
(title) Unit Manager
(EPA Region or State) Maine DEP

Locations where References may be found:

Bureau of Remediation and Waste Management File Room, Ray Building Augusta, Maine

Contact telephone and e-mail numbers

(name) Richard Kaselis
(phone #) 207-287-6113
(e-mail) richard.m.kaselis@maine.gov

Reviewed and Approved
James [Signature] 3/16/10
Chief, RCRA Corrective Action
USEPA - Region 1

FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

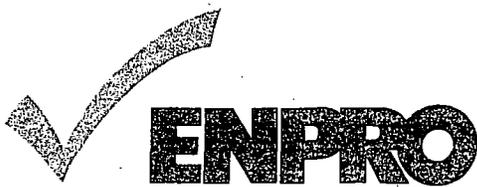


Table 2
 Quarterly Groundwater Sampling Analytical Results
 ENPRO Services of Maine, Inc.
 June 10, 2009

PARAMETERS	Concentration (ug/L)				
	ENPRO MW-2	ENPRO MW-4	ECC MW-3	ENPRO MW-5	ENPRO MW-9
Dichlorodifluoromethane	<5	<5	<5	<5	<5
Chloromethane	<2	<2	<2	<2	<2
Vinyl chloride	<2	<2	<2	<2	<2
Bromomethane	<2	<2	<2	<2	<2
Chloroethane	<5	<5	<5	<5	<5
Trichlorofluoromethane	<5	<5	<5	<5	<5
Diethyl Ether	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
1,1-Dichloroethene	<1	<1	<1	<1	<1
tert-Butyl Alcohol (TBA)	<30	<30	<30	<30	<30
Methylene chloride	<5	<5	<5	<5	<5
Carbon disulfide	<5	<5	<5	<5	<5
Methyl-t-butyl ether(MTBE)	<5	<5	<5	12	<5
Ethyl-t-butyl ether(ETBE)	<5	<5	<5	<5	<5
Isopropyl ether (DIPE)	<5	<5	<5	<5	<5
tert-amyl methyl ether(TAME)	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<2	<2	<2	<2	<2
1,1-Dichloroethane	<2	<2	<2	<2	<2
2,2-Dichloropropane	<2	<2	<2	<2	<2
cis-1,2-Dichloroethene	<2	<2	<2	<2	<2
2-Butanone(MEK)	<10	<10	<10	<10	<10
Bromochloromethane	<2	<2	<2	<2	<2
Tetrahydrofuran(THF)	<10	<10	<10	<10	<10
Chloroform	<2	<2	<2	<2	<2
1,1,1-Trichloroethane	<2	<2	<2	<2	<2
Carbon tetrachloride	<2	<2	<2	<2	<2
1,1-Dichloropropene	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1
1,2-Dichloroethane	<2	<2	<2	<2	<2
Trichloroethene	<2	<2	<2	<2	<2
1,2-Dichloropropane	<2	<2	<2	<2	<2
Dibromomethane	<2	<2	<2	<2	<2
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methyl-2-pentanone(MIBK)	<10	<10	<10	<10	<10
cis-1,3-Dichloropropene	<2	<2	<2	<2	<2
Toluene	<1	<1	<1	<1	<1

M
F
9 | M
C
L
35 | 35

* MEG STATE OF MAINE EXPOSURE GUIDELINE
 MCL EPA MAXIMUM CONTAINMENT LEVEL

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 Summary Table Second Quart 2009

ENPRO Services, Inc.

31 Waldron Way, Portland, ME 04103
 (207) 878-3031 - FAX (207) 878-3043

12 Mulliken Way, Newburyport, MA 01950
 (978) 465-1595 - FAX (978) 465-2050

www.enpro.com



Table 2
 Quarterly Groundwater Sampling Analytical Results
 ENPRO Services of Maine, Inc.
 June 10, 2009

PARAMETERS	Concentration (ug/L)					M E G	M C L
	ENPRO MW-2	ENPRO MW-4	ECC MW-3	ENPRO MW-5	ENPRO MW-9		
trans-1,3-Dichloropropene	<2	<2	<2	<2	<2		
1,1,2-Trichloroethane	<2	<2	<2	<2	<2		
2-Hexanone	<10	<10	<10	<10	<10		
Tetrachloroethene	<2	<2	<2	<2	<2		
1,3-Dichloropropane	<2	<2	<2	<2	<2		
Dibromochloromethane	<2	<2	<2	<2	<2		
1,2-Dibromoethane	<2	<2	<2	<2	<2		
Chlorobenzene	<2	<2	<2	<2	<2		
1,1,1,2-Tetrachloroethane	<2	<2	<2	<2	<2		
Ethylbenzene	<1	<1	<1	<1	18	13	
mp-Xylene	<1	<1	<1	<1	7	1400	10,000
o-Xylene	<1	<1	<1	<1	3	1400	10,000
Styrene	<1	<1	<1	<1	<1		
Bromoform	<2	<2	<2	<2	<2		
iso-Propylbenzene	<1	<1	<1	<1	2		
Bromobenzene	<2	<2	<2	<2	<2		
1,1,2,2-Tetrachloroethane	<2	<2	<2	<2	<2		
1,2,3-Trichloropropane	<2	<2	<2	<2	<2		
n-Propylbenzene	<1	<1	<1	<1	1		
2-Chlorotoluene	<2	<2	<2	<2	<2		
4-Chlorotoluene	<2	<2	<2	<2	<2		
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1		
tert-Butylbenzene	<1	<1	<1	<1	<1		
1,2,4-Trimethylbenzene	<1	<1	<1	<1	74		
sec-Butylbenzene	<1	<1	<1	2	<1		
1,3-Dichlorobenzene	<1	<1	<1	<1	<1		
p-isopropyltoluene	<1	<1	<1	<1	<1		
1,4-Dichlorobenzene	<1	<1	<1	<1	<1		
1,2-Dichlorobenzene	<1	<1	<1	<1	<1		
n-Butylbenzene	<1	<1	<1	<1	<1		
1,2-Dibromo-3-chloropropane	<2	<2	<2	<2	<2		
1,2,4-Trichlorobenzene	<1	<1	<1	<1	<1		
Hexachlorobutadiene	<0.5	<0.5	<0.5	<0.5	<0.5		
Naphthalene	<5	<5	<5	<5	80	140	100
1,2,3-Trichlorobenzene	<1	<1	<1	<1	<1		
DRO(Diesel Range Organics C10-C28)	<50	590	270	1500	2200	50	
Total Lead (mg/L)	0.003	0.023	0.001	0.001	0.001		



Table 3: Soil Analytical Results - Detected Parameters
 ENPRO Services of Maine, Inc.
 October, 2001

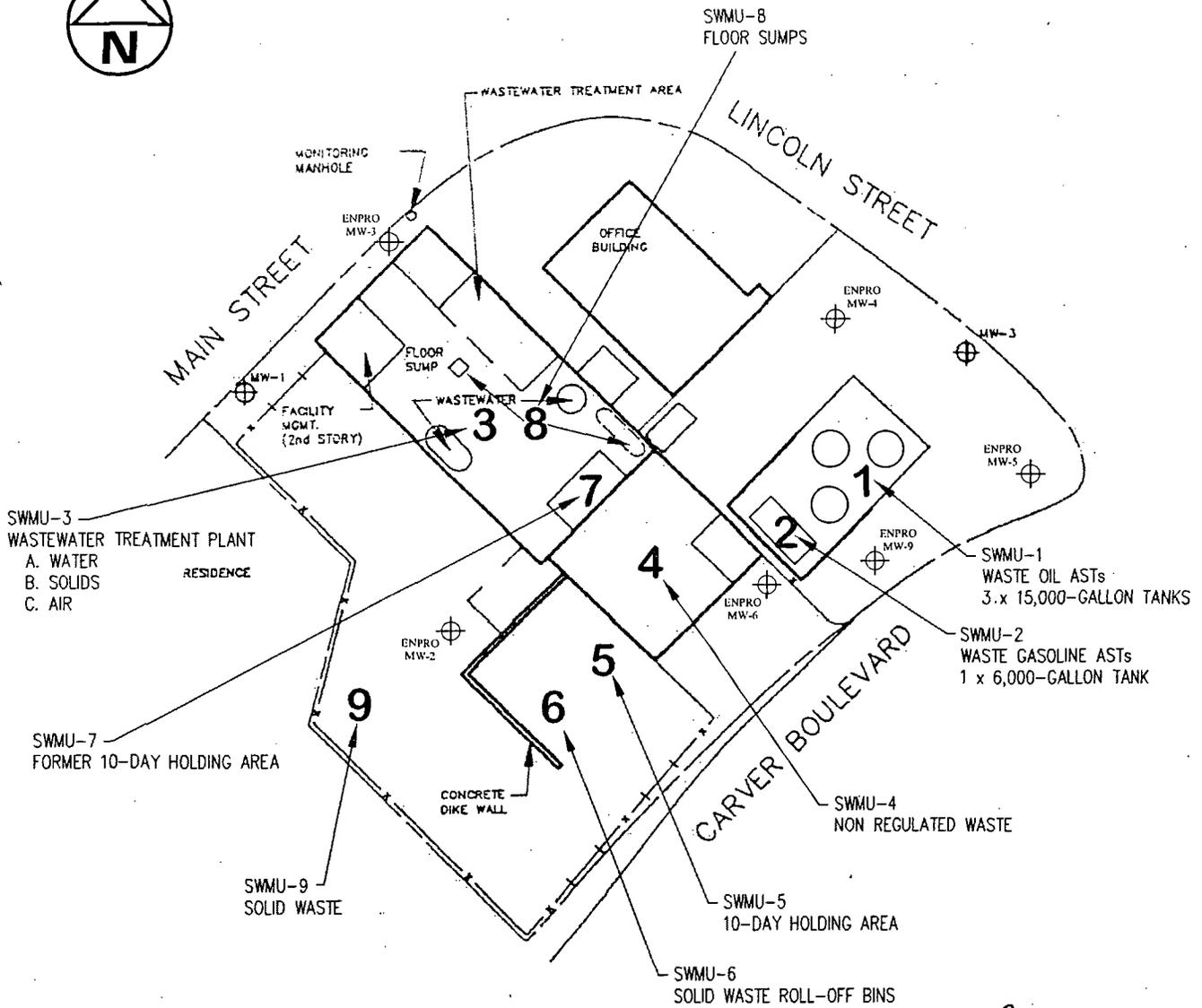
Parameter	Concentration (ug/kg)			ME RAG (ug/kg)		EPA*		*MAINE INTERIM	
	B-6	B-9	B-10	Residential	Worker	Resid	Const	Resid	Const
n-Propylbenzene	1000	<800	<400	NN	NN	NN	NN	NN	NN
1,3,5-Trimethylbenzene	3000	1000	<400	NN	NN	47	2000	NN	NN
1,2,4-Trimethylbenzene	10000	4000	<400	NN	NN	67	2300	NN	NN
sec-Butylbenzene	1500	<800	<400	NN	NN	NN	NN	NN	NN
p-isopropyltoluene	1500	<800	<400	NN	NN	NN	NN	NN	NN
n-Butylbenzene	4300	1200	<400	NN	NN	NN	NN	NN	NN
	Concentration (mg/kg)								
TPH (C9-C40)	1800	70	2600	NN	NN	NN	NN	NN	NN
DRO (Diesel Range Organics C10-C28)	1800	66	2600	NN	NN			4,497	10,000

Note: NN - None Noted

* EPA SCREENING LEVELS REGION 3 (mg/kg) SEPTEMBER 2008

* MAINE INTERIM RISK BASED EXPOSURE LEVEL (mg/kg)
 MACTEC OCTOBER 2008

* NN - NO EPA OR MAINE EXPOSURE LEVELS NOTED



LEGEND

- MW-1 ⊕ MONITORING WELL LOCATION
- PROPERTY LINES



SOURCE:
FIGURE L-2 IS BASED ON DRAWING TAKEN FROM FINAL
PRELIMINARY ASSESSMENT PLUS REPORT JETLINE SERVICES,
INC. SOUTH PORTLAND, ME. (JULY 1992)

ENPRO SERVICES OF MAINE

106 MAIN STREET SOUTH PORTLAND, MAINE

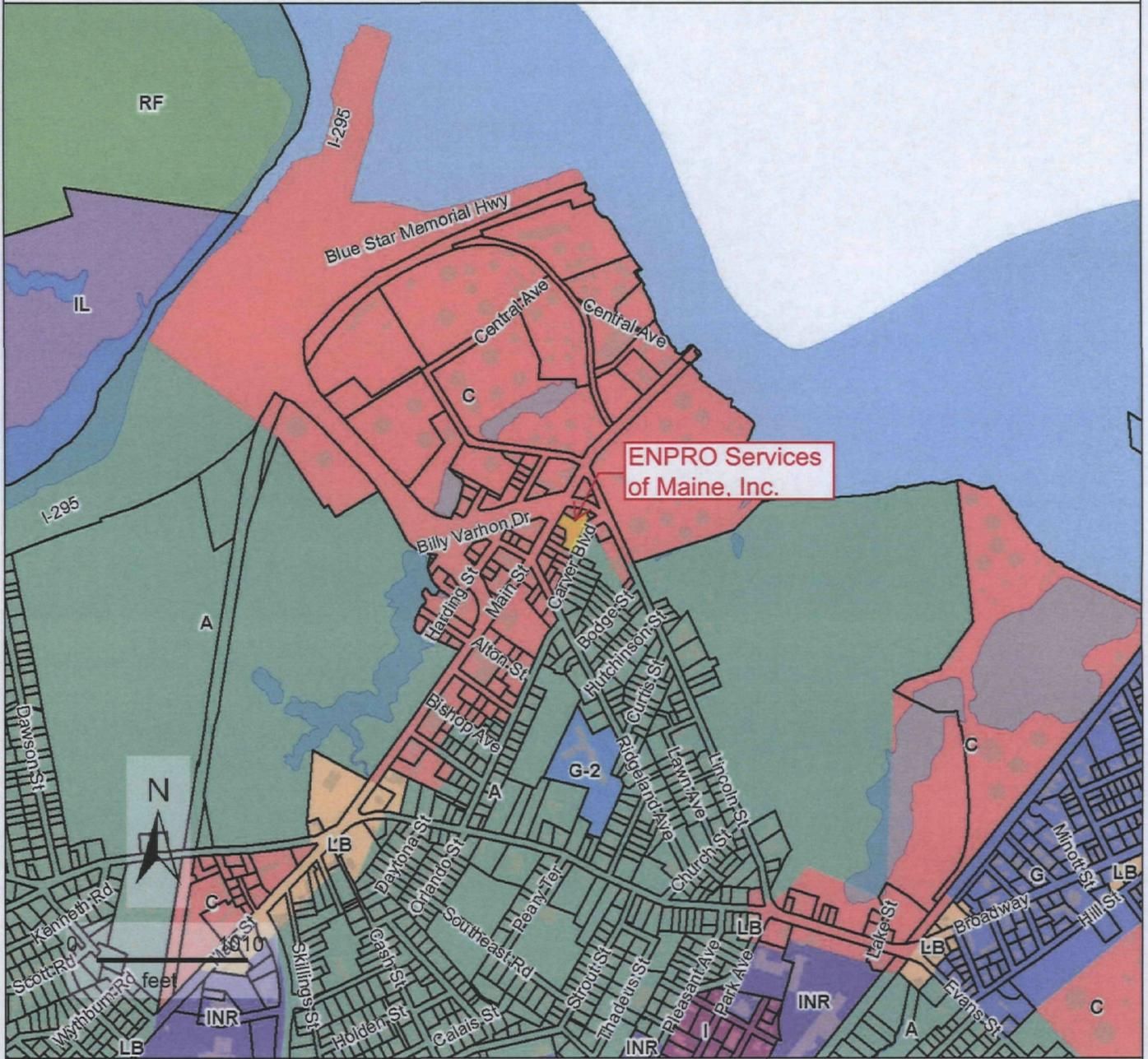


SOLID WASTE
MANAGEMENT UNIT
MAP

DWG. NO.

L-2

Zoning Map - South Portland, Maine

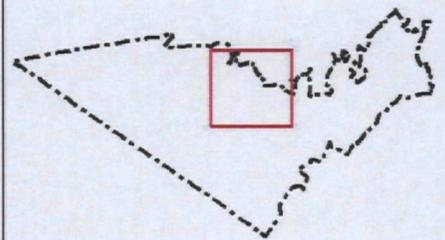


Property ID	032*0000*036B
Address	106 MAIN ST
Owner	DAC II, LLC



Map For Reference Only
Not a Legal Document

The City of South Portland makes no claims and no warranties, concerning the validity, expressed or implied, of the accuracy of the GIS data presented on this map.





Carver St

Carver Blvd

EWPRO FACILITY

Gately St

Main St Terrace

Main St

Bodge St

Image © 2009 Maine GeoLibrary

©2009 Go

© 2009 Tele Atlas

43°38'08.47" N 70°17'09.98" W

Eye alt

1

2003